

AF Scientist Earns DoD's Top Civilian Award

88th Air Base Wing Public Affairs (APRIL 1, 2013)

Amy Rollins

WRIGHT-PATTERSON AIR FORCE BASE, Ohio—Dr. Boris Tomasic from the Air Force Research Laboratory (AFRL), Air Force Materiel Command at Wright-Patterson Air Force Base, was named a recipient of the 57th annual Department of Defense Distinguished Civilian Service Award.

The highest honor given by the Secretary of Defense to career civilian personnel was presented at the Pentagon to Dr. Tomasic, principal/senior electronics engineer, AFRL, Sensors Directorate, Electromagnetics Technology Division, Antenna Technology Branch, and Angelica M. Collazo, 92nd Information Operations Squadron, Air Force Space Command. Collazo has been at the forefront of cutting-edge cyber defense initiatives critical to the projection of global military power and national defense.

The annual award is presented to a small number of DoD civilian employees whose service reflects devotion to duty and significant contributions to improving DoD operational efficiency and economy, said Staff Sgt. Lavon Tucker, Air Force Personnel Center Public Affairs awards and decorations.

Dr. Tomasic and Dr. S. Liu, Aerospace Corp. invented and led the development of a revolutionary new antenna—the Geodesic Dome Phased Array Antenna (GDPAA)—for the Air Force satellite control network (AFSCN). It provides tracking, telemetry, and control of nearly all DoD and National Aeronautics and Space Administration satellites, transitioning the technology from initial concept to field-ready demonstration levels. In comparison to traditional reflector antennas that can link to one satellite at a time, the GDPAA provides multiple (up to four) simultaneous satellite links and gain on demand resulting in highly flexible and efficient antenna capable of meeting future Air Force satellite traffic demands, Dr. Tomasic explained.

He also provided engineering support to Air Combat Command on the Joint Threat Emitter, developing phased array technology for systems that mimic surface-to-air missile radars employed worldwide.

Dr. Tomasic's contributions to antenna technology paved the way for Air Force, Navy, and Marine fighter pilots to fly against several emulator systems in realistic combat training scenarios. He also contributed to practical radar and communication system improvements that benefit all DoD



Dr. Boris Tomasic poses with a subarray-basic building block of the Geodesic Dome Phased Array Antenna he designed and for which he was given the Department of Defense Distinguished Civilian Service Award. Tomasic is the principal/senior electronics engineer, Air Force

forces, including a field deployable phased array for ballistic missile defense, assessment of the Army's Comanche and Black Hawk helicopter antennas, Space Based Radar system development for the Defense Advanced Research Projects Agency, and development of extremely high-frequency solid state antenna technology that resulted in improved aircraft connectivity with the military strategic, tactical, and relay satellite network.

"I am honored to have received the award," Dr. Tomasic said. "It's very competitive at all levels—AFRL, AFMC, the Air Force and then the DoD. Winning was a big surprise."

Dr. Tomasic has worked at Wright-Patterson since August 2011 when the AFRL Sensors Directorate, Electromagnetics Technology Division moved from Hanscom Air Force Base, Mass., as part of BRAC 2005.

The lab is now working on the next generation of his antenna, which he hopes will cost half the price of the first generation.

Louise Brown and Gloria Kwizera, AFPCPA, contributed to this story.

Top Acquisition Official Unveils 'Better Buying Power 2.0'

AMERICAN FORCES PRESS SERVICE (APRIL 24, 2013)
Jim Garamone

WASHINGTON—Defense acquisition professionals need to apply commonsense thinking as they make decisions, the undersecretary of defense for acquisition, technology and logistics said here today.

Frank Kendall issued a memo on the "Better Buying Power 2.0" that re-emphasized the power people have in the acquisition process and seven commonsense ways that acquisition and contracting personnel can achieve greater efficiencies and productivity.

Kendall is building on the original Better Buying Power memo issued three years ago. He stressed that the 2.0 version is a continuous improvement process.

"It's not about acquisition reform, or transformational change," he said during a media roundtable at the Pentagon. "It's really about attacking all the many problems that exist in how we do acquisition and making incremental improvements wherever we can."

The memo directs personnel to achieve affordable programs, to control costs throughout products' life cycles, to provide incentives for industrial productivity and innovation, to eliminate unproductive processes and bureaucracy, and to promote effective competition.

The memo also calls on personnel to improve tradecraft in the acquisition of services and to improve the professionalism of the total acquisition workforce.

"There is a flavor that runs through 2.0 of, 'Here are the tools you need, and here is the way you should be thinking about the problems that you have to solve. But you have to solve them,'" Kendall said.

The memo tells acquisition personnel first to think—to apply their education, training, and experience to the process. It also talks about good decision making and the need to streamline the decision-making process.

"People, to me, are central to this [process]," Kendall said. "I've also made it a point that it will take cultural change to do a better job."

It sounds like an oxymoron, but money has value, Kendall said. And while the Defense Department always has tried to be a good financial steward, the incentives often seem to work against that.

"Obligation rates as a key example of that—where we effectively punish people for not spending their money," he said. "That's not how you negotiate a good contract."

If acquisition professionals can return money to the department or buy additional product for their service or program, that should be rewarded, Kendall added.

"People shouldn't just take the budget as a given and take it as their job to spend that budget," the undersecretary said. "Their job is to get as much value as they possibly can—one way is to get more content for that money, and another is to not spend as much."

Kendall said he believes contracting personnel are embracing that idea and that it's becoming institutionalized throughout DoD.

Leadership is part of the whole process, and Better Buying Power 2.0 emphasizes the need for people to lead, he said.

"We have a lot of very good people, but I think we can improve," he added. "We need to build our professionalism."

The importance of DoD getting its money's worth is especially important now that money is tight and sequestration has hit, Kendall said.

"Even though the workforce is out there trying to come to grips with sequestration, we also have to improve how we do our business in general," he said. "This is not going to go away, no matter what the fiscal situation is."

2013 Young Investigators Announced

DEPARTMENT OF DEFENSE NEWS RELEASE (APRIL 1, 2013)

The Department of the Navy announced today the names of 16 academic researchers representing disciplines from robotics to solar power who will receive funding for 2013 under the Office of Naval Research Young Investigator Program.

“Especially in challenging budget environments, it is critical the Department of the Navy invests for the long term so we maintain the technological advantage we currently enjoy,” said Secretary of the Navy Ray Mabus. “The outstanding research scientists who received these awards are engaged in pursuits that could lead to breakthroughs for the Navy and Marine Corps in the future.”

One of the oldest and most competitive scientific research advancement programs in the country, the Young Investigator Program rewards emerging leaders in the science, technology, engineering, and mathematics (STEM) fields based on the merits of their research and the potential for contributions to warfighters.

A total of \$8.2 million will be distributed among this year’s 16 recipients, chosen from a field of 310 candidates and representing 13 academic institutions throughout the country. Their work delves into an array of topics that could lead to advancements in naval technologies, including sea-based logistics delivery systems, robotics, photonic devices, undersea optical wireless communication, solar fuel cells, and neural computation.

Each of the faculty members selected will receive annual monetary awards over three years for their respective research efforts. A list of this year’s winners can be found at <http://go.usa.gov/27hz>.

Since Office of Naval Research instituted the program in 1985, nearly 600 researchers from 121 colleges and universities have received funding under the Young Investigator Program and have significantly advanced Department of the Navy research efforts.

“Many of these past winners found greater opportunities and gained prominence in their respective fields by continuing to engage in naval research beyond their award periods,” said Dr. William Lukens, Office of Naval Research program manager for the Young Investigator Program.

For more information, contact Peter Vietti, Office of Naval Research, at 703-588-2167.

DoD Announces Winners of the Secretary of Defense Environmental Awards

DEPARTMENT OF DEFENSE NEWS RELEASE (APRIL 19, 2013)

The Department of Defense has announced the winners of the 2013 Secretary of Defense Environmental Awards.

Each year the department honors individuals, teams, and installations for their outstanding achievements and innovative environmental practices and partnerships that promote quality of life and increase efficiencies without compromising mission success.

Under Secretary of Defense for Acquisition, Technology and Logistics Frank Kendall is pleased to name the winners of the 2013 Secretary of Defense Environmental Awards:

- Sustainability, Non-industrial Installation: 673rd Air Base Wing, Joint Base Elmendorf-Richardson, Alaska
- Sustainability, Individual/Team: Dorenda Coleman, Arizona Army National Guard, Ariz.
- Environmental Quality, Industrial Installation: 78th Civil Engineer Group, Robins Air Force Base, Ga.
- Environmental Quality, Overseas Installation: Marine Corps Base Camp Smedley D. Butler, Japan
- Environmental Excellence in Weapon System Acquisition, Small Program: Counterfeit Refrigerant Impact Team, Tank Automotive RD&E Center, Mich.
- Natural Resources Conservation, Large Installation: Naval Base Coronado, Calif.
- Environmental Restoration, Installation: U.S. Army Garrison Aberdeen Proving Ground, Directorate of Public Works, Md.
- Cultural Resources Management, Installation: Marine Corps Air Station Beaufort, S.C.
- Cultural Resources Management, Individual/Team: June Noelani Cleghorn, Marine Corps Base, Hawaii

The department has long made it a priority to protect the environment on and around its installations, not only to preserve irreplaceable resources for future generations, but to ensure the availability of land, water, and airspace needed to sustain military readiness. In 1962, the Department of Defense established the annual Secretary of Defense Environmental Awards to honor those individuals and installations whose accomplishments demonstrate ways to protect our environment while serving our country. The accomplishments of the awardees exemplify the goals and objectives of the department’s environmental programs to integrate the environment with the military mission by reducing costs and improving mission performance.

For more information about the department’s environmental programs, please visit: www.denix.osd.mil.

The department celebrates individuals and installations for their commitments to protect human health and the environment for future generations while addressing complex national security challenges. Every year, each military service and defense agency has the opportunity to submit one nomination in each of the nine award categories that cover six subject areas: sustainability; environmental quality; environmental excellence in weapon system acquisition; natural resources conservation; environmental restoration; and cultural resources management. A panel of judges with expertise, education, and/or experience in those subjects from federal and state agencies, academia, and the public then evaluate and score the nominees to select winners in each category. For more information about the Environmental Awards Program, visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Although only recognized once a year, military service members and civilians continue their exceptional efforts in protecting the environment and human health, as well as preserving the resources at our installations to support training and operations. Their efforts exemplify the Department of Defense's environmental leadership, both in the United States and overseas. The nine winners were chosen from a total of 37 nominees for the 2013 Secretary of Defense Environmental Awards:

Sustainability, Non-industrial Installation: 673rd Air Base Wing, Joint Base Elmendorf-Richardson, Alaska

At Joint Base Elmendorf-Richardson (JBER), Alaska, sustainability is a primary mission support platform taking advantage of the environmental programs that have been in place for many years. Environmental management system and asset optimization form the backbone for management of all base resources with focused goals to minimize the generation of hazardous waste, reduce the use of hazardous materials, develop recycling programs, and implement energy conservation initiatives. By constructing the JBER landfill gas waste-to-energy plant, the base was able to reduce greenhouse gas emissions by 13,944 tons of methane and save \$73.6 million. In addition, JBER partnered with the National Marine Fisheries Service to conduct acoustic and visual behavior studies of the endangered Cook Inlet beluga whale. Their efforts were critical to maintaining Air Force and Army missions at JBER and to the recovery of this species. These programs serve as a foundation for a sustainable base where less funding is spent on waste and energy, and more on training our soldiers and airmen to carry out their missions.

For more information about this award and 673rd Air Base Wing, Joint Base Elmendorf-Richardson, Alaska, visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Sustainability, Individual/Team: Dorenda Coleman, Arizona Army National Guard

Dorenda Coleman, the sustainability manager for the Arizona Army National Guard (AZARNG), is at the core of all sustainability undertakings across the AZARNG's training sites, readiness centers, and mission facilities. Coleman's leadership and management of many facets of sustainability including encroachment protection, green construction, recycling, and energy and resource conservation, have been key to integrating sustainable practices and awareness into the AZARNG culture. Over the past two years, she has achieved several important new milestones, including establishing four interdepartmental sustainability teams to comprehensively manage and pursue sustainability initiatives throughout the state. One of the major outcomes of this effort has been an agreement with the Tonto National Forest in making over three million acres of land available for military training and protecting Camp Navajo from encroachment. Other achievements include playing a key role in the certification of AZARNG's first two leadership in energy and environmental design buildings and establishing a solar-power parking lot pilot test, which creates over one million kilowatts of energy each year, and offsets the cost to light the lot. Through her advancements in community partnerships, resource use, and waste reduction, Coleman successfully integrated sustainability with the nation's military mission.

For more information about this award and Dorenda Coleman, Arizona Army National Guard, visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Environmental Quality, Industrial Installation: 78th Civil Engineer Group, Robins Air Force Base (AFB), Ga.

Robins Air Force Base is the largest industrial facility in the state of Georgia, with an annual \$4.5 billion economic impact across the state. The environmental management branch efforts center on air quality, community relations, hazardous materials and waste management, pollution prevention, green procurement, natural resources, restoration, and water quality. In fiscal 2012, the base's qualified recycling program (QRP) recycled over 2,000 tons of recyclables, diverted 53 percent of solid waste from the landfill, and generated over \$960,000 in total revenue. Robins AFB also formed the Robins transportation improvement program to expand and increase participation in commuter options, reducing the number of vehicle miles traveled by two million between fiscal 2010 and fiscal 2012, and saving over \$1.1 million in fuel and maintenance costs. Robins AFB continues to lead the way with one of the most wide-ranging and proactive installation environmental programs in the nation.

For more information about this award and 78th Civil Engineer Group, Robins AFB, Ga., visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Environmental Quality, Overseas Installation: Marine Corps Base Camp Smedley D. Butler, Japan

Marine Corps Base Camp Smedley D. Butler, Japan (MCB Butler), is a leader in enhancing environmental quality while sustaining the Marine Corps' ability to effectively train and maintain readiness in Okinawa, Japan. MCB Butler's environmental program proactively supports mission readiness by providing the most extensive environmental training program within the Department of Defense in Asia, completing plans and environmental analyses using in-house staff to save time and money, and effectively managing the land entrusted to the Marine Corps. MCB Butler completed more than 20 erosion control projects, allowing Marines to continue to use training areas for live fire and jungle warfare training. In addition, environmental staff was successful in capturing cane toads, one of the world's most invasive animals because of its poisonous glands and large appetite, and by the end of 2011, staff and volunteers captured a total of 589 cane toads. After monitoring potential breeding sites, staff did not find any signs of breeding, indicating that the cane toad capture was effective. In fiscal 2011 and fiscal 2012, MCB Butler staff collected 4.5 million kilograms of recyclables from nearly 700 locations throughout Okinawa, Japan, generating nearly \$2 million in proceeds. MCB Butler continues to be a leader in enhancing environmental quality while sustaining the Marine Corps' ability to effectively train and maintain readiness. For more information about this award and Marine Corps Base Camp Smedley D. Butler, Japan, visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Environmental Excellence in Weapon System Acquisition, Small Program: Counterfeit Refrigerant Impact Team, Tank Automotive RD&E Center, Mich.

The U.S. Army TACOM Life Cycle Management Command and Tank Automotive Research, Development and Engineering Center's counterfeit refrigerant impact team not only improved safety for soldiers and vehicle maintenance personnel, but also reduced harm to the environment, improved force readiness, and lowered vehicle maintenance costs across the Army. The refrigeration industry identified the widespread introduction of counterfeit refrigerants containing mixtures of discontinued chemical compounds that are flammable, explosive, toxic to humans, and harmful to the environment. In response, a core integrated product team was formed to study and resolve these environmental risks. The team's accomplishments led to a highly-effective, quick-response, collaborative effort that protects the safety and occupational health of soldier and service personnel,

reduces waste and harmful discharges and emissions, and enables significant cost savings and performance improvements. For more information about this category and the Counterfeit Refrigerant Impact Team, visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Natural Resources Conservation, Large Installation: Naval Base Coronado, Calif.

Naval Base Coronado (NBC), consists of eight geographically separate installations in southern California. NBC's primary mission is to provide the highest quality logistical support and quality of life services for the U.S. Navy's operating forces, assigned activities, and other commands, as needed, to enable the operating forces to produce the highest level of combat readiness. The NBC natural resources program has had remarkable success supporting the military readiness mission while sustaining natural resources. Under this program, NBC implemented a monitoring and management program for the San Clemente Island fox, a species that was once considered for listing under the Endangered Species Act, but has now rebounded to the highest numbers ever recorded on the island. NBC also completed a sensitive plant status report for more than 20 rare species on San Clemente Island, including six listed plant species. This survey indicated a more than ten-fold increase for five of the six listed plants since the time of listing. NBC was also successful in signing a record of decision for the Silver Strand Training Center environmental impact statement to increase training tempo and expanded access to training areas, and signing a new Silver Strand Training Center biological opinion with the U.S. Fish and Wildlife Service to re-open beach training lanes during nesting season. These expanded and formerly off-limits areas provide more than 50 additional acres of enhanced training lands. For more information about this award and Naval Base Coronado, Calif., visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Environmental Restoration, Installation: U.S. Army Garrison Aberdeen Proving Ground, Directorate of Public Works, Md.

Aberdeen Proving Ground (APG) employs innovative strategies, forges strong stakeholder relationships, and implements dynamic management techniques that focus on land use and cost effectiveness, while always being cognizant of the APG and Army missions. A dedicated, talented, and experienced team within the Directorate of Public Works manages the APG environmental restoration program. This team was effective in protecting, enhancing, and restoring the environment, including reusing excess soil from base realignment and closure construction at APG for remedial cover and fill material, resulting in a cost savings of \$800,000; making available 57 acres of previously restricted land for mission

training and mitigation areas. In addition, the APG environmental restoration staff developed a solution that used the sun's energy to facilitate the oxidation of white phosphorus, saving the Army \$3.8 million in costs. Employing accelerated and innovative strategies, forging strong partnerships with regulators and the public, reducing risks to human health and the environment, implementing green solutions through dynamic program management techniques, and focusing on cost effectiveness guides the environmental restoration efforts on APG. For more information about this award and U.S. Army Garrison Aberdeen Proving Ground, Md., visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Cultural Resources Management, Installation: Marine Corps Air Station Beaufort, S.C.

Marine Corps Air Station (MCAS) Beaufort serves as a home and base of operations for Fleet Marine Force units of the Second Marine Aircraft Wing and the Second Force Service Support Group. Cultural resource management is a key element in project planning at the Air Station. The MCAS Beaufort cultural resource management program continues its outstanding activities both on the installation and for Townsend Bombing Range in McIntosh County, Ga., with support from a variety of partners. Program activities include maintaining its integrated cultural resource management plan, and furthering programs and relationships with regulatory groups with streamlined project planning and execution. MCAS Beaufort was also successful in engaging with private land owners to conduct archeological studies of properties around Townsend Bombing Range to expand the current 5,183 acre range by 28,630 acres. The Lowcountry of South Carolina where MCAS Beaufort is located has a rich history with some of the earliest settlements in the eastern United States, including family cemeteries and cemeteries associated with plantations. To ensure proper management of these cemeteries and burial plots within the installation, MCAS Beaufort completed a survey and history of eight cemeteries using techniques such as geographical information systems and ground penetrating radar to identify a total of 386 graves that can now be properly protected. Cultural resources awareness and community relations remain important aspect to furthering the understanding of the heritage of the installation and its place in the community. For more information about this award and Marine Corps Air Station Beaufort, S.C., visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

Cultural Resources Management, Individual/Team: June Noelani Cleghorn, Marine Corps Base Hawaii

June Noelani Cleghorn, senior cultural resources manager for Marine Corps Base (MCB) Hawaii, has played an integral role in establishing the MCB Hawaii cultural resources

management program as one of the leading Department of Defense environmental programs in Hawaii. The cultural resources management program at MCB Hawaii ensures the protection of the many diverse cultural resources on the installation, as well as rigorous compliance with historic preservation laws to ensure the continued success of the military mission. During the past two years, Cleghorn has managed several projects critical to the combat readiness and training mission of MCB Hawaii, including successfully executing a programmatic agreement that enables the execution of eight military construction projects in support of the basing of MV-22 Osprey and H-1 tactical helicopter squadrons, educating Department of Defense Hawaii personnel about meaningful consultations with native Hawaiian organizations, and achieving formal eligibility determinations from the Hawaii State Historic Preservation Office for the inventory of nearly 200 World War II era historic buildings on base. Cleghorn also developed a program for cultural resources management staff to teach curation and field survey techniques to Wounded Warrior and Fleet Assistance Program Marines. This program enabled the needed curation of archaeological collections and documentation of previously unrecorded World War II era bunkers at no cost, while provided Marines with valuable experience in a non-military profession. Through her achievements, Cleghorn continually strives to reduce conflicts between the military mission and successful management of cultural resources. For more information about this award and June Noelani Cleghorn, Marine Corps Base Hawaii, visit: www.denix.osd.mil/awards/FY12SECDEF.cfm.

DARPA Announces Winner of the First FANG Challenge

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (APRIL 22, 2013)

Today, the Defense Advanced Research Projects Agency (DARPA) awarded a \$1 million prize to "Ground Systems," a 3-person team with members in Ohio, Texas, and California, as the winner of the Fast Adaptable Next-Generation Ground Vehicle (FANG) Mobility/Drivetrain Challenge. Team Ground Systems' final design submission received the highest score when measured against the established requirements for system performance and manufacturability.

"I'm very pleased with the quality of the submissions we received during the challenge, and we have learned a great deal throughout the process," said Army Lt. Col. Nathan Wiedeman, DARPA program manager. "The first FANG Challenge has been a great experiment, and the submission of many viable, innovative designs has validated the Adaptive Vehicle Make (AVM) design tools and provided invaluable feedback to continue their development."

Wiedenman noted that several different types of teams were able to use various aspects of the tools to create viable designs in the course of the challenge. The winning team, for example, was geographically separated, but was able to use the collaboration tools to create the winning design. Another finalist team was comprised of people who met through VehicleFORGE, the online collaboration platform used by competitors to manage and submit their designs. Still another top design was submitted by a one-person team. In many cases, a traditional design process would likely have excluded these teams from contributing their ideas.

Since the beginning of the first FANG Challenge on January 14, 2013, more than 1,000 participants within more than 200 teams used the META design tools and the VehicleFORGE collaboration platform developed by Vanderbilt University in Nashville, Tenn., to design and simulate the performance of thousands of potential mobility and drive-train subsystems. The goal of the FANG program is to test the specially developed META design tools, model libraries, and the VehicleFORGE platform, which were created to significantly compress the design-to-production time of a complex defense system.

Now that the design challenge has concluded, the winning FANG design will be built by the DARPA iFAB program team. iFAB, or Instant Foundry Adaptive through Bits, is led by the Applied Research Laboratory at Penn State University and will validate the manufacturability feedback, foundry configuration, and instruction generation tools as part of the build process. Ultimately, the as-built design will be subjected to test and evaluation under the leadership of the FANG performer, Ricardo Inc., of Van Buren Township, Mich.

Begun in 2010 as part of DARPA's advanced manufacturing initiative, AVM is a portfolio of programs focused on the reduction of complex military system development timelines by a factor of five or more. The technical approach encompasses multiple efforts addressing all aspects of the manufacturing process, from requirements representation, through design, to final physical build of a full-scale complex defense system.

Deputy Secretary of Defense Receives Ronald Reagan Missile Defense Award

DEPARTMENT OF DEFENSE NEWS RELEASE (APRIL 23, 2013)

Deputy Secretary of Defense Ashton B. Carter is the recipient of the 2013 Ronald Reagan Missile Defense Award for his distinguished contributions in advancing missile defense as a critical defense capability for the United States. Vice Adm. James D. Syring, Missile Defense Agency director, and Lt. Gen. James A. Abrahamson (ret.), previous director of the

Strategic Defense Initiative Organization and recipient of the 2004 Reagan Award, presented Carter with the award during the Ronald Reagan Missile Defense Forum held today at Fort Belvoir, Va.

As missile defenses have expanded to play a vital role in the national defense strategy of the United States, Carter has been instrumental in defining the relationship between the Missile Defense Agency, the developer, and the military services, which are the operators of the ballistic missile defense system. Carter's perspective on ballistic missile defense has shaped thinking on a national level to meet a real-world evolving threat.

Previously, Carter served as undersecretary of defense for acquisition, technology and logistics from April 2009 until October 2011. As undersecretary, Carter led the department's efforts to accelerate the fulfillment of urgent operational needs; increase the department's buying power; and strengthen the nation's defenses against emerging threats. Over the course of his career in public service, Carter has four times been awarded the Department of Defense Distinguished Service Medal. For his contributions to intelligence, Carter was awarded the Defense Intelligence Medal.

Carter is a member of the President's Management Council and the National Council on Federal-Labor-Management Relations. He has previously served on the White House Government Accountability and Transparency Board, the Defense Science Board, the Defense Policy Board, the Secretary of State's International Security Advisory Board, and the Congressional Commission on the Strategic Posture of the United States.

Carter is a fellow of the American Academy of Arts and Sciences and the American Academy of Diplomacy, and is a member of the Council on Foreign Relations and the American Physical Society.

SDDC Logisticians Save \$1.2 Million with 'Outside The Box' Thinking

MILITARY SURFACE DEPLOYMENT AND DISTRIBUTION COMMAND (APRIL 26, 2013)

Mitch Chandran

Logisticians in Military Surface Deployment and Distribution Command's Operation Center put their heads together recently to save U.S. Southern Command \$1.2 million in transportation costs. Prepositioned cargo in Honduras gets picked up and loaded onto the vessel, *Ocean Atlas*, last month prior to delivery supporting U.S. Southern Command's Beyond the Horizon in Panama, Beyond the Horizon in El Salvador, and New Horizons in Belize.

SCOTT AIR FORCE BASE, Ill.—Logisticians in Military Surface Deployment and Distribution Command's Operations Center put their heads together recently to manage a large cargo movement from Florida to Central America supporting three separate, but simultaneous, joint military exercises sponsored by U.S. Southern Command.

After careful analysis, it became apparent one vessel could do the work of three, saving their customer, U.S. Southern Command, known as SOUTHCOM, \$1.2 million in transportation costs.

Surface Deployment and Distribution Command, or SDDC, accomplishes this mission by leveraging the best of U.S. commercial shipping, port, trucking, and rail services delivering cargo to every corner of the globe supporting Department of Defense contingencies, exercises, and humanitarian aid missions.

This year's exercises in the region were Beyond the Horizon in Panama, Beyond the Horizon in El Salvador, and New Horizons in Belize. The three SOUTHCOM exercises were being held around the same timeframe, making it easier for the planners to streamline deployment and delivery requirements.

"We started the chartering process last year for SOUTHCOM," said Chris Clodfelter, lead for SDDC Command Operations Center's Pacific and Southern Command Team. "We have liner service we can tap into, but since the ports we are working through in Central America are not on their regularly scheduled routes, it becomes considerably more expensive to ship cargo there. So the chartering concept provided us a cost savings—especially since we're combining cargo that would normally be divided up and deployed on three separate vessels."

With a lot of coordination with SOUTHCOM, Military Sealift Command, or MSC, Army South, Air Force South, SDDC's 597th Transportation Brigade, and the 832nd Transportation Battalion, SDDC planners were able to get their buy-in for the single charter solution.

"As we were reviewing the requirements for this, Chris and the team realized the three exercises were happening around the same timeframe, and that's when the single vessel idea started coming into play," said Maj. Armando Valdez, chief



Logisticians in Military Surface Deployment and Distribution Command's Operation Center recently saved U.S. Southern Command \$1.2 million in transportation costs. Prepositioned cargo in Honduras gets picked up and loaded onto the vessel, *Ocean Atlas*, last month prior to delivery supporting U.S. Southern Command's Beyond the Horizon in Panama, Beyond the Horizon in El Salvador, and New Horizons in Belize.

Photo courtesy SDDC

for SDDC Command Operations Center's Pacific and Southern Command Team.

SDDC, working with MSC, chartered the vessel, *Ocean Atlas*, which is a multipurpose ship able to accommodate the complex stow plan required to support the three exercises. Cargo and containers have to be stowed onto a vessel as a way to allow easy access to offload when multiple ports are involved.

In this case, 217 pieces of cargo consisting of vehicles, containers, and breakbulk pallets left Cape Canaveral, Fla., with the first stop in Honduras to pick up an additional 99 pieces.

According to Valdez, prior to their final decision of a one vessel solution, they were looking at using two vessels to support the three exercises. One vessel would carry cargo from Cape Canaveral, Fla., to Panama, then to El Salvador via the Panama Canal. All told, SDDC would have paid about \$1.9 million to include canal usage costs of around \$400,000.

The second vessel would support the New Horizons exercise with cargo deploying from Cape Canaveral to Belize City at a cost of about \$534,000.

Valdez said they are also looking at line hauling (trucking) of equipment between Honduras and El Salvador during the redeployment this summer to avoid the expense and time lost from shipping through the Panama Canal.

Beyond the Horizon and New Horizon exercises are a U.S. Southern Command-sponsored, U.S. Army South and U.S. Air Force South-planned and led annual humanitarian and civic assistance exercise. The exercises provide construction and medical assistance to partner nations throughout Central and South America and the Caribbean. The exercises, which generally take place in rural, underprivileged areas, are a major component of the U.S. military's regional engagement efforts, and it affords a unique opportunity to train U.S. service members alongside partner nation personnel, while providing needed services to communities throughout the region.

SDDC, headquartered at Scott Air Force Base, is composed of about 2,400 active and Reserve military and civilian surface transportation experts making it possible for warfighters to have what they need, when they need it.

Army Wins Top Award for Innovation

U.S. ARMY ACQUISITION SUPPORT CENTER (APRIL 30, 2013)

Claire Heining

ARLINGTON, Va.—The U.S. Army has been named one of the world's most innovative research organizations, after earning more than 300 patents for new technologies in a three-year period.

The Army joins the ranks of private companies such as 3M, Apple, AT&T, Dow Chemical, DuPont, and General Electric as one of the 2012 Top100 Global Innovators named by Thomson Reuters, the multimedia and information conglomerate. The U.S. Navy was also named, making the two service branches the first government agencies to make the list.

"This recognition is shared with the members of our Army Science and Technology community who perform research relevant for the Army and our important mission, and provide the innovation that contributes to a strong national security posture," said Heidi Shyu, the Assistant Secretary of the



The U.S. Army has been named one of the 2012 Top100 Global Innovators by Thomson Reuters, the multimedia and information conglomerate. Pictured with the award are Heidi Shyu, assistant secretary of the Army for Acquisition, Logistics and Technology (ASA[ALT]); John E. Nettleton of the Communications-Electronics Research, Development and Engineering Center; and Bartley Durst of the Engineer Research and Development Center (Corps of Engineers).

Photo by Army Staff Sgt. Bernardo Fuller

Army for Acquisition, Logistics and Technology (ASA(ALT)), who accepted the award on behalf of the service during a small ceremony at the Pentagon. "Nearly 12,000 scientists and engineers perform their work daily knowing that it will benefit our soldiers by providing them with the best technology available to successfully accomplish their mission."

The award focused on all organizations having 100 or more "innovative" patents, defined as the first publication in a patent document of a new technology, from 2009-2011. Thomson Reuters then used its proprietary methodology to measure the organizations' success on a variety of metrics, such as "influence"—how often their research was cited by other innovators in their subsequent inventions; and "success"—the conversion rate of patent applications to granted patents.

The Army scored well in both of those categories, with more than 8,500 citations of its inventions published from 2007-2011, and 327 granted patents out of 436 published inventions from 2009-2011. The Service also stood out for the broad range of subject matter covered in its inventions portfolio, ranging from training software that uses virtual robots to dispose of simulated explosives, to a folding shield

that protects the operator of a tank weapon station, to a vaccine guarding against infection by the Ebola virus.

"This illustrates how we attack many Army-unique problems, yet also contribute in wide-ranging areas," said Dale A. Ormond, director of the Army Research, Development and Engineering Command (RDECOM). "Our portfolio was heavy in weapons, ammunition, and blasting, but also pharmaceutical products, polymers, and computing."

More than 900 individuals contributed to the Army's patents, including personnel from RDECOM, the Army Corps of Engineers, and the Army Medical Research and Materiel Command, as well as some of their partners from industry, government, and academia. Three of those individuals, representing all the Army innovators, were honored at the award ceremony, including Ronald E. Meyers of the Army Research Laboratory, who was the top innovator with 11 patents; John E. Nettleton of the Communications-Electronics Research, Development and Engineering Center; and Bartley P. Durst of the Engineer Research and Development Center, Corps of Engineers.

The recognition by Thomson Reuters illustrates the depth, skill, and dedication of the Army science and technology community and the impact of their efforts both within and beyond the military, leaders said.

"Our people operate in the space between the state of the art and the art of the possible where innovation is paramount and focused on addressing needs unique to the Army," Ormond said. "We also develop technologies that have a major impact once they leave the military world. It's an incredible value for the taxpayer."

In a constrained budget environment, deliberate investment in science and technology is essential to drive continued innovation, Shyu said. The Army is developing a strategic plan that will protect and facilitate science and technology efforts that are essential to Army modernization, addressing the state of emerging and evolving threats; trends in commercial technology; current and emerging equipment requirements; and research in core priorities that address Army-unique challenges.

While it is difficult to predict future technology developments, leaders expressed confidence in the Army workforce to continue accelerating innovation to give Soldiers the decisive edge.

"Army science and technology cannot survive without innovative scientists and engineers," said Mary J. Miller, deputy

assistant secretary of the Army for Research and Technology. "We are lucky to have an amazing group of scientists and engineers to invent, innovate, mature, and demonstrate technology that provides increased capability to the Warfighter."

DoD Announces Winners of the 2013 Commander in Chief's Annual Award for Installation Excellence

DEPARTMENT OF DEFENSE NEWS RELEASE (MAY 20, 2013)

Secretary of Defense Chuck Hagel announced today the 2013 recipients of the Commander in Chief's Annual Award for Installation Excellence:

- U.S. Army Garrison Fort Rucker, Ala.
- Marine Corps Air Ground Combat Center Twentynine Palms, Calif.
- Naval Support Activity Panama City, Panama City Beach, Fla.,
- Keesler Air Force Base, Biloxi, Miss.
- Defense Logistics Agency Land and Maritime, Columbus, Ohio.

The Commander in Chief's Annual Award for Installation Excellence recognizes the outstanding and innovative efforts of the people who operate and maintain U.S. military installations. The five recipients of this highly competitive presidential award were selected for their exemplary support of Department of Defense missions.

Installation excellence enables better mission performance and enhances the quality of life for servicemembers and their families. Each winning installation succeeded in providing excellent working, housing, and recreational conditions. Each winning installation will receive a commemorative commander in chief's award trophy and flag, along with a congratulatory letter from the president.

Information about each winning installation's accomplishments can be found at <http://www.acq.osd.mil/ie/>.

Dellamonica Winner Humble in His Accomplishments

ARMY NEWS SERVICE (May 29, 2013)

Amy Guckeen Tolson

REDSTONE ARSENAL, Ala.—When Scott Phillips first heard the news that he was a 2012 Dellamonica awardee, he almost didn't believe it.

"That was quite a surprise," said Phillips, branch chief for Army, Interservice, and FMS aircraft components at AMCOM. "I didn't even realize I had been nominated for that. I first found out about two weeks ago when ALC published a notification, but I wasn't sure until after I saw the official AMC article. There's a lot of Scott Phillips. I just

thought, 'Oh it's a mistake. That's not me.' I always try to do a good job, but I'm not doing it to get a plaque on the wall. It is a tremendous honor."

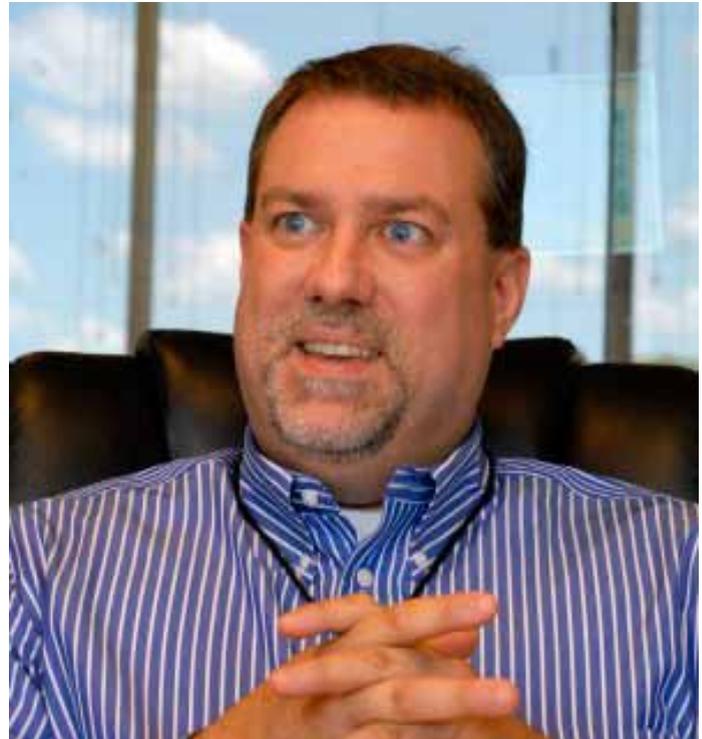
Phillips was selected for a 2012 Louis Dellamonica award, an honor given out by the Army Materiel Command to its top employees who have given significant contributions to AMC's mission, goals, and objectives. While humble in his accomplishments and the contributions he has made to the Army in his 10 years as a civilian, his selection as an award recipient is no mistake. Recipients of the award are chosen based on their efforts to not only improve AMC's mission and their own work, but their ability to motivate other employees to improve their own work, as well as how their peers, subordinates, and supervisors view them.

"Scott is very deserving of this recognition," said Chris Pegues, chief, Aviation Industrial Operations Division, AMCOM Logistics Center, Phillips' supervisor. "He has that ability to take complex concepts and put them into action. Depot operations is a huge business, and through LMP we now have access to an enormous amount of management data. The issue was how to sort through all of that data and then to be able to make good and timely business decisions. Scott developed a tool that gave us that ability. Thanks to him, it really has put AMCOM in the forefront of how industrial operations should be managed in an enterprise resource environment."

Phillips studied management at Jacksonville State University and spent eight years working as a deputy clerk to the circuit clerk of Etowah County before following in his father's footsteps and pursuing a career as a civilian with the Army. Knowing how happy his father had been in his 30-plus year career with the Army, Phillips applied for six different intern positions, and was selected as an AMC fellow in October 2002.

While he loved his job with Etowah County, Phillips knew he had found his calling with the Army.

One of the greatest rewards over the past year, which Phillips credits for the Dellamonica distinction, has been transforming the way the industrial base operations business operates, making it more efficient and cost-effective. By creating a common operating picture for program management, Phillips helped to create a program snapshot view of every item that goes through a depot to be repaired or overhauled, allowing his office, the depot, and the customer to easily find out things like an item's schedule, funding, earned value, how it's performing, as well as its criticality.



Scott Phillips, branch chief for Army, Interservice, and FMS aircraft components at AMCOM, is the recipient of a 2012 Louis Dellamonica award. The honor is bestowed on only the top employees throughout the Army Materiel Command.

U.S. Army photo

"It puts all that information in one place," Phillips said. "When I took the job people had the information, they were just looking at it in different ways from different systems in different points in time. We pulled everything together and created that common look, one place you can come and get that info. We use that to guide our reviews with the customers and monthly reports on how things are going. That has become a benchmark for how we manage components."

"Over the last year we've been able to return funds from the depot where there had been savings. Previously that was done closer to the end of the fiscal year, but we got over \$80 million back from depot in just a couple quarters. It gives us better resource utilization and certainly has improved the way that we handle our money. It has certainly improved our ability to use our resources in a more timely fashion."

The new system also allows each member of the process to focus solely on their mission, making the process "almost seamless."

"We try to make it as easy for them as possible and as error free as we can so our data is right," Phillips said. "We don't

need the depot or the customer to worry about all the widgets and stuff that we're doing. Whatever they need, just tell us. We'll make it happen."

"It's very rare to fall in with the kind of work with the kind of people that I fell into," he said. "It's the best of both worlds. I love what I do. I love the people I get to work with very much. I love the analytical and even the supervisory work—it's challenging, which is good. I think I found my niche."

The 2012 winners are:

- Scott Phillips, U.S. Army Aviation and Missile Command
- Michael D. Weaver, U.S. Army Aviation and Missile Command
- Gloria M. Golden, U.S. Army Contracting Command-Aberdeen Proving Ground
- William J. Glodek, U.S. Army Research Laboratory
- Denver F. Olive, TACOM Life Cycle Management Command
- Matthew J. Hunter, TACOM Life Cycle Management Command

- Shirley A. Hayden, U.S. Army Communications-Electronics Command
- Clay W. Socha, U.S. Army Contracting Command-Aberdeen Proving Ground
- Debra K. Foley, Headquarters, U.S. Army Materiel Command
- William R. Clement, U.S. Army Communications-Electronics Command
- Sonya Zanardelli, U.S. Army Research, Development and Engineering Command
- Jamie Hagemeyer, Military Surface Deployment and Distribution Command

The Louis Dellamonica Award is presented annually to those who have significantly contributed to AMC's mission and overarching goals and objectives for the year. The award is presented in honor of Louis Dellamonica, a general engineer who worked at the Hawthorne Army Depot for 65 years. His career exemplifies integrity, innovation, leadership, and outstanding dedication to AMC's mission.