59TH ANNUAL

Honor Awards

PROGRAM

2007

United States
Department of Commerce

Fifty-ninth Honor Awards Program

The Amphitheater
Ronald Reagan Building and International Trade Center
1300 Pennsylvania Avenue, NW

November 15, 2007

Introduction
Deborah A. Jefferson
Director for Human Resources Management

Presentation of Colors
Armed Forces Color Guard

National Anthem
Paul Bell

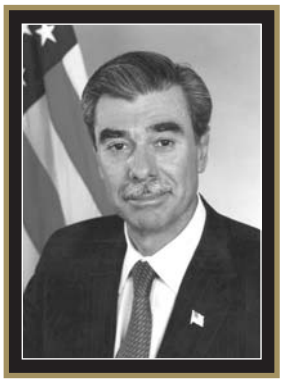
Address
Honorable Carlos M. Gutierrez
Secretary of Commerce

Announcement of Awards
Jeffery K. Nulf
Deputy Assistant Secretary for Administration

Presentation of Gold and Silver Medals
Secretary Gutierrez assisted by Department Officials

Closing Remarks
Deborah A. Jefferson
Director for Human Resources Management

Soloist
Paul Bell



MESSAGE FROM THE SECRETARY

The men and women of the U.S. Department of Commerce are proud to be at the forefront of our Nation's efforts to maintain America's competitiveness and leadership in the global economy.

Under the Department's broad mandate to build for the future, these dedicated employees carry out responsibilities in the areas of trade promotion, innovative research, predicting and protecting the environment, business development, and producing essential economic and demographic data.

President Bush has spoken of the culture of service, citizenship, and responsibility that strengthens our country. Those being honored here today demonstrate these high standards through selfless acts of heroism, commitment, tenacity, and excellence. The benefits can extend beyond our boundaries and our generation.

Among the extraordinary accomplishments being recognized, Commerce personnel supported the establishment of the Northwestern Hawaiian Islands Marine National Monument, the world's largest fully protected marine conservation area and home to extensive coral reefs, threatened green sea turtles, and over 14 million seabirds.

Other accomplishments impact our quality of life and economic and national security in ways as varied as improving time measurements used by millions around the world, developing testing protocols for the new U.S. ePassport, and creating a revolutionary new magnetic scanner.

In pursuing new opportunities for America's businesses and workers to succeed and excel, our honorees exemplify the best of public service. It is with great pride that I salute the talented recipients of the U.S. Department of Commerce 2007 Honor Awards.

Carlos M. Gutierrez

Gold Medal

This award, the highest honorary award given by the Department, is granted by the Secretary for distinguished performance characterized by extraordinary, notable, or prestigious contributions that impact the mission of the Department and/or one operating unit and that reflect favorably on the Department.

Silver Medal

This award, the second highest honorary award given by the Department, is granted by the Secretary for exceptional performance characterized by noteworthy or superlative contributions that have a direct and lasting impact within the Department.

To warrant a Gold or Silver Medal, a contribution must focus on qualitative and quantitative performance measures reflected in the Department's Strategic Plan and be identified in one of the following areas:

leadership

personal and professional excellence

scientific/engineering achievement

organizational development

customer service

administrative/technical support

heroism

OFFICE OF THE CHIEF FINANCIAL OFFICER AND ASSISTANT SECRETARY FOR ADMINISTRATION

HEROISM

Brian Fleenor
Security Specialist

Office of Security

Office of the Chief Financial Officer and Assistant Secretary for Administration

Mr. Fleenor is honored for an act of heroism that saved the lives of a young family. On a Saturday morning in May 2007, Mr. Fleenor was traveling northbound on I-65 when he witnessed a terrible accident involving a concrete mixer, a tanker truck, and a mini-van. The mini-van, which was completely demolished by the two trucks and had burst into flames, contained a young family on vacation. Upon seeing the accident, he pulled to the side of the expressway, jumped a retaining wall, and climbed over the burning wreckage to pull the father of the family from the van. With the assistance of another passerby he went back and rescued a small child from the flames. It was then that he spotted a third child and again went back into the flame-engulfed wreckage to attempt to remove the other child. However, when he cleared some of the wreckage away, he realized that the child had succumbed to massive head injuries. It was then that the mother of the family, who was in another vehicle involved in the accident, staggered to the scene. Mr. Fleenor's dedication, courage, and compassion in the face of personal danger is the definition of a true hero.

BUREAU OF INDUSTRY AND SECURITY

PERSONAL AND PROFESSIONAL EXCELLENCE

Frederic J. Carle
Alan G. Berkowitz
Criminal Investigators

Office of the Assistant Secretary for Export Enforcement

Bureau of Industry and Security

Special Agents Carle and Berkowitz are recognized for successfully conducting a highly complex investigation of a diversion network which illegally exported millions of dollars worth of U.S.-origin military and civilian aircraft parts through Malaysia and Singapore to Iran. This investigation led to the arrest and conviction of three individuals, two of whom were sentenced to a total of sixty-eight months in prison, and over $1.5 million in fines. This investigation helped enforce U.S. Policy of denying support to nations that support terrorism.

Michael E. Rithmire
Sheila W. Quarterman
Karen A. Swasey
Export Policy Analysts

Elroy G. Christiansen
David T. Flynn
George H. Loh
General Engineers

Brian A. Baker
Anthony S. Koo
Electronics Engineers

Office of the Assistant Secretary for Export Administration

Eugene Lee
Senior Advisor

Office of the Under Secretary

Jeannette Chu
Export Control Officer

Trade Promotion and U.S. & Foreign Commercial Service

Bureau of Industry and Security

The China Rule Team is recognized for developing a Validated End User program, an innovative new policy regulation to advance U.S. economic and security interests with respect to China. The rule will lift individual license requirements for trusted customers. Their work broke new ground in the use of analysis, outreach, and diplomacy, increasing exports by over $100 million while enhancing U.S. security.

Silver Medal

PERSONAL AND PROFESSIONAL EXCELLENCE

Edward J. Carrigan
Catherine L. Donovan
Criminal Investigators

Office of the Assistant Secretary for Export Enforcement

Bureau of Industry and Security

The Lam Investigation Team is recognized for disrupting a significant effort to obtain sensitive controlled U.S.-origin equipment destined for potential use by the People's Liberation Army in China, a violation of U.S. Law. Using creative investigative techniques, the team obtained the conviction of the subject under investigation, a sentence of 14 months in prison, and over $17,000 in property as proceeds of the activities was seized. This conviction was the first using the general smuggling charge provision of the Patriot Act, which will be of great aid in obtaining future smuggling convictions.

ECONOMIC DEVELOPMENT ADMINISTRATION

Silver Medal

ADMINISTRATIVE/ TECHNICAL SUPPORT

Trisha M. Korbas
Civil Engineer

Devinder K. Rajput
Information Technology Specialist

Austin Regional Office

Economic Development Administration

The team is recognized for creating an interactive CD which fundamentally changed how EDA conducts post construction monitoring activity. The CD, tailored to each construction project, has helped ensure accountability; accurate file management; and audit-friendly documentation. The team also created an impressive web portal that allows regional staff to access on line critical demographic, economic, program, and regulatory information. Both tools have increased staff productivity and substantially reduced the paperwork burden for agency customers, a major achievement in customer service.

ECONOMICS AND STATISTICS ADMINISTRATION

Gold Medal

LEADERSHIP

Ralph H. Kozlow
Associate Director for International Economics

Patricia E. Abaroa
Maria Borga
Marshall B. Reinsdorf
Economists

Obie G. Whichard
Chief, International Investment Division

Brent R. Moulton
Associate Director for National Income, Expenditure and Wealth Accounts

Brian C. Moyer
Supervisory Economist

Bureau of Economic Analysis

Economics and Statistics Administration

The BEA team is cited for leading the development of key international accounting standards approved in the last year which provide more accurate, consistent, timely and transparent data for business and policy makers in today's integrated global economy. The team provided technical assistance and coordination on the transition to the new standards to key partners including Brazil, China, Russia, Japan, Canada, Iraq, and developing countries in Latin America, Asia and Africa.

Walter C. Odom, Jr.
Chief, Administration and
Customer Service

U.S. Census Bureau

Economics and Statistics Administration

Mr. Odom is recognized for his leadership of the activities resulting in the construction of a 1.5 million square foot Census Bureau headquarters building and garage, and the relocation of approximately 4,800 employees. Mr. Odom led a team to respond to the ambitious schedule established to ensure the successful completion of the project in time to support key planning efforts for the 2007 Economic and Government Caucuses, and the 2010 Decennial Census. All construction and relocation activities were completed on schedule, within approved budget, and with no degradation to operations.

SCIENTIFIC/ENGINEERING ACHIEVEMENT

David E. Galdi
Supervisory Information
Technology Specialist

U.S. Census Bureau

Economics and Statistics Administration

Mr. Galdi is cited for extraordinary achievement in redesigning the legacy Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System into a modern off the shelf system using advanced spatial processing technology on an unprecedented scale. The modernization of the MAF/TIGER System provides cutting edge technology for the storage and management of spatial data, and will support Census Bureau statistical programs well into the 21st century. It will also expand opportunities for growth in public and private sector Geographic Information Systems.

Silver Medal

PERSONAL AND PROFESSIONAL EXCELLENCE

Roy F. Borgstede
Supervisory Facilities
Management Analyst

Teryl A. Baker
Roger E. Rhoads
Information Technology Specialists

Larry W. Carbaugh
Assistant Division Chief for Space
and Facilities Management and
Strategic Planning

Catherine T. Le
Thomas J. Meerholz
Dale R. Reed
Supervisory Information
Technology Specialists

Charles R. Taylor
Construction Manager

U.S. Census Bureau

Economics and Statistics Administration

The team is recognized for excellence in demonstrating an outstanding level of commitment in the execution of the planning and construction of a 1.5 million square foot Census Bureau headquarters building and garage, and the relocation of approximately 4,800 employees. This Construction Management Team responded to the ambitious schedule established to ensure the completion of the project in time to support key planning efforts for the 2007 Economic and Government Censuses, and the 2010 Decennial Census. This was done within approved budget, and with no degradation to operations.

SCIENTIFIC/ENGINEERING ACHIEVEMENT

William J. Zeile
Paul W. Farello
Raymond J. Mataloni, Jr.
Douglas B. Weinberg
Economists

Christopher L. Bach
Ned G. Howenstine
Michael A. Mann
Supervisory Economists

Bureau of Economic Analysis

Economics and Statistics Administration

The BEA team is cited for improving the accuracy and comprehensiveness of U.S. data on cross border trade and on activities of multinational companies. Their efforts provided more detailed quarterly data on international trade and financial transactions; released more timely data on activities of multinational companies; and responded to numerous recommendations by study groups including General Accountability Office (GAO) and others. The team's work will assist our generation to better respond to questions about the impact of globalization and offshore outsourcing.

INTERNATIONAL TRADE ADMINISTRATION

Silver Medal

PERSONAL AND PROFESSIONAL EXCELLENCE

Jeffrey D. Dutton
Lead International Trade Specialist

Thomas O. Barlow
Senior International Trade Specialist

Christine P. Brown
International Trade Specialist

Market Access and Compliance

Anna K. Flaaten
International Trade Specialist

Jonathan M. Lyons
Senior Import Policy Analyst

Import Administration

Scott J. Pietan
Economist

Cora C. Dickson
Scott M. Kennedy
Louisa A. Marinaccio
International Trade Specialists

Manufacturing and Services

Arthur I. Aronoff
Attorney Advisor

Office of the General Counsel

International Trade Administration

The team is cited for its contributions to the successful conclusion of the U.S.-Korea Free Trade Agreement (FTA) negotiations, the largest U.S. trade deal in over a decade. They provided crucial advice to lead negotiators, fully participated in ten months of intensive negotiations, and helped create new export opportunities for U.S. companies in the world's 11th-largest

economy. The FTA will eliminate, within three years, ninety-four percent of tariffs on two-way trade--valued at $76 billion, and is expected to boost U.S. exports to Korea by $19 million (up over 50 percent) over the next five years.

Timothy O. Miles
International Trade Specialist

Scott J. Pietan
Economist

Manufacturing and Services

Joshua T. Pierce
International Trade Specialist

Market Access and Compliance

Helen D. Lee Hwang
Commercial Officer

Chul-Hyun Ahn
Senior Commercial Officer

Trade Promotion and U.S. & Foreign Commercial Service

Ronald S. Ross
Supervisory Computer Scientist

National Institute of Standards and Technology

International Trade Administration

The group is recognized for its work to overturn Korean market barriers preventing U.S. firms from participating in the one billion dollar Korean public and financial sectors. In close coordination over a two-year period, the team formed the Business Software Alliance, which is the largest, most influential trade association in the U.S. Opening up the Korean market allowed U.S. firms to make over $500 million.

Trade Remedy Compliance Staff

International Trade Administration

The Trade Remedy Compliance Staff (TRCS) is cited for its critical role in achieving the Department's objective of advancing responsible economic growth and trade while protecting American security by ensuring fair competition in international trade. The TRCS achieved remarkable success for U.S. exporters through vigorous monitoring and advocacy in foreign trade remedy actions. As a direct result of the TRCS' tireless efforts as the U.S. Government's foreign trade remedy watchdog, U.S. exporters were able to access markets worth over $750 million that otherwise would have been unfairly denied to them.

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Gold Medal

LEADERSHIP

William Barker
Supervisory Information Technology Specialist

Ramaswamy Chandramouli
James Dray, Jr.
Hildegard Ferraiolo
William MacGregor
Computer Scientists

Donna Dodson
Teresa Schwarzhoff
Information Technology Specialists

Timothy Grance
Patrick Grother
William Polk
Supervisory Computer Scientists

National Institute of Standards and Technology

The Personal Identity Verification (PIV) team is honored for developing Federal Information Processing Standard (FIPS) 201 and associated publications mandated by U.S. Homeland Security regulations. PIV for federal employees enables secure access to federal resources using verifiable identification credentials. The team coalesced disparate federal requirements, reconciled diverse technical and policy interests, assessed competing technologies, invented new methods of interoperability, and improved identity verification methods. Some 16 million identity cards will be issued in compliance with FIPS 201.

SCIENTIFIC/ENGINEERING ACHIEVEMENT

Samuel P. Benz
Paul D. Dresselhaus
Joseph R. Kinard, Jr.
Thomas E. Lipe, Jr.
Yi Hua Tang
Physicists

Charles J. Burroughs, Jr.
Electronics Engineer

National Institute of Standards and Technology

The team is recognized for creating and deploying the world's only quantum mechanically accurate AC voltage standard. Starting with the breakthrough invention of a way to create perfectly quantized AC voltage pulses from Josephson junctions, the team developed all aspects of the essential science and technology to realize a practical system. The team used their AC Josephson voltage standard system to perform the first quantum AC voltage calibrations of a commercial instrument, reducing uncertainties by more than a factor of 10 and achieving the world's best measurements of this type.

Thomas E. Parker
Supervisory Physicist

Judah Levine
NIST Fellow

National Institute of Standards and Technology

The group is recognized for leading the development, operation, and continual improvement of the National Institute of Standards and Technology (NIST) Time Scale, the foundation for all NIST time and frequency measurement services, which serve over 2.5 billion requests to accurately synchronize clocks around the world, and are crucial to such applications as synchronizing telecommunications information, electric power grids, navigation systems, and billions of dollars of daily electronic financial transactions.

Taner Yildirim
Physicist

National Institute of Standards and Technology

Dr. Yildirim is honored for his innovative use of neutron scattering techniques and first-principles quantum-mechanical calculations, which has led to a completely new approach for engineering hydrogen storage materials. Dr. Yildirim showed that novel materials based on carbon nanotubes and ethylene complexes can store up to 8 and 14 weight percent of hydrogen, respectively, greatly exceeding minimum storage-capacity requirements set by the FreedomCar Research Partnership. His work is widely acknowledged as being among the most important achievements in the quest for the hydrogen economy.

CUSTOMER SERVICE

Joy P. Dunkers
Physical Scientist

Michael H. Francis
Physicist

Jeffrey R. Guerrieri
Electronics Engineer

Gale A. Holmes
Walter G. McDonough
Materials Engineers

David R. Novotny
Electronics Engineer

Chad R. Snyder
Supervisory Research Chemist

Perry F. Wilson
Supervisory Electronics Engineer

National Institute of Standards and Technology

The team is recognized for their development of innovative test methods to measure and to evaluate the electronic security and mechanical performance and durability of the new U.S. ePassport. These measurements led to significant design changes and security improvements to the U.S. ePassport prototypes, set benchmarks for their performance, and ultimately guided the Department of State and the Government Printing Office in their choice of a final document design that will help better secure U.S. entry points and borders.

Silver Medal

LEADERSHIP

Anne L. Plant
Supervisory Research Chemist

National Institute of Standards and Technology

Dr. Plant is recognized for her leadership in establishing Quantitative Cell Biology at the National Institute of Standards and Technology. Over the past decade, it has become clear that biological outcome is not just the result of the identity of DNA in cells, but it is the aggregate effect of the dynamic and interrelated molecular events within cells. Dr. Plant's vision has led to the realization that aggregate effects, and their molecular basis in cells can be rigorously determined by quantitative imaging. This is critical to drug development and evaluation of cell therapy products.

SCIENTIFIC/ENGINEERING ACHIEVEMENT

Stephen A. Cauffman
Supervisory Research Engineer

Dat Duthinh
Long T. Phan
Fahim Sadek
Research Structural Engineers

National Institute of Standards and Technology

The team is recognized for the reconnaissance of the performance of physical structures during Hurricanes Katrina and Rita in 2005. This effort was exceptionally challenging due to the large geographic area affected by the two hurricanes and the extent of damage to major buildings, infrastructure and residential structures. The team collected perishable field data, analyzed data on wind, storm surge and flooding and prepared a comprehensive report on their findings. The report also included recommendations to improve the safety of buildings, infrastructure, and residential structures in the future.

Leonard M. Hanssen
Physicist

National Institute of Standards and Technology

Dr. Hanssen is recognized for his technical leadership in advancing the state-of-the-art of infrared measurements and standards. Dr. Hanssen developed a world-leading facility for the measurement of infrared optical properties of materials and provided critical infrared measurements for numerous ground and space-based remote sensing programs. The facility has also developed several infrared standards, including, most recently, nearly 5,000 infrared wavelength standards delivered to the National Institute of Standards and Technology Office of Standard Reference Materials for dissemination.

Edwin J. Heilweil
Research Chemist

National Institute of Standards and Technology

Dr. Heilweil is recognized for the development of innovative terahertz (THz) measurement science and data and his exploration of their application in the detection of improvised explosive devices, concealed weapons, and chemical warfare agents, in the control of manufacturing quality, and in the investigation of the function of biological molecules. A key component of his achievement is the establishment of a database of accurate THz signatures for more than 200 materials to help researchers perform improved THz measurements and pursue new applications of THz technology.

Kristian P. Helmerson
Physicist

National Institute of Standards and Technology

Dr. Helmerson is recognized for performing the first atom optics experiment with an atomic Bose-Einstein condensate, and has recently shown that orbital angular momentum of light can be transferred onto a coherent atom cloud. His research advances the ability to engineer exotic quantum states of matter essential for improved sensors and clocks and to bring quantum information from a scientific dream to reality. His research has important implications for improvements in the sensitivity of atom interferometers being developed for potential use in high-precision gyroscopes.

Joseph T. Hodges
Mechanical Engineer

National Institute of Standards and Technology

Dr. Hodges is recognized for implementing optical measurement methods of unprecedented accuracy, precision, and sensitivity for quantitative chemical concentration measurement in gases. The coupling of laser and resonator stabilization with automation technology and new data analysis methods have resulted in robust measurement systems that produce spectroscopic reference data of unmatched quality. These methods and data enable a new generation of instruments, used by industry and government, which quantitatively determine gas concentrations, even at ultratrace levels.

Jeeseong Hwang
Physicist

National Institute of Standards and Technology

Dr. Hwang is recognized for his work in developing a method based on quantum dot nanotechnology to selectively label bacteria for highly sensitive optical detection. Developed in partnership with the National Institutes of Health (NIH), it gives researchers a new tool to develop highly specific probes for bacterial pathogens responsible for food-borne illnesses, antibiotic-resistant diseases, or terrorist use. This effort is a model for National Institute of Standards and Technology (NIST)-NIH technical collaboration, leveraging NIST expertise in the physical sciences with NIH expertise in the medical sciences.

Paul A. Kopetka
Mechanical Engineer

Scott J. Slifer
Engineering Technician

Robert E. Williams
Nuclear Engineer

National Institute of Standards and Technology

The group is recognized for their innovative modeling, design, and construction of the world's most efficient cold neutron source; the heart of the neutron measurement capabilities at the National Institute of Standards and Technology (NIST) Center for Neutron Research (NCNR). The Liquid Hydrogen Cold Neutron Source is the nation's first high neutron flux cold source available for use by the U.S. scientific user community. This capability increased data quality, allowed the facility to serve new users, and made possible new experiments that were previously deemed too difficult to attempt.

John P. Marino
Research Chemist

National Institute of Standards and Technology

Dr. Marino is honored for his outstanding contributions to the science and technology of Biomolecular Nuclear Magnetic Resonance Spectroscopy for the development of novel approaches to determine Ribonucleic Acid (RNA) structures and interactions. Since RNA is fundamental to the transformation of genetic information into proteins in living cells, it is a major target for new drug development by the pharmaceutical industry. His research has directly contributed to the determination of RNA structures for the targeting of RNA by drugs in the treatment of Human Immunodeficiency Virus (HIV) and other viral diseases such as influenza.

David P. Pappas
Physicist

Anthony B. Kos
Electronics Engineer

National Institute of Standards and Technology

The team is recognized for revolutionizing the way in which forensic analysis of magnetic tapes is performed through the development and deployment of new scanning technology. The team invented new methods of stabilizing and tuning magnetic sensors capable of imaging fields from a variety of sources. These sensors were integrated into a unique high-speed, high-resolution magnetic scanner system delivered to the Federal Bureau of Investigation for analysis of audiotape evidence. The team is currently working on a corresponding videotape system for the Justice Department.

Jack A. Stone, Jr.
Physicist

National Institute of Standards and Technology

Dr. Stone is cited for inventing and developing an ingenious new optical probing system that allows very accurate, low-force, dimensional measurements of sub-millimeter features - 100 times smaller than previously attainable. Modern technological innovation is increasingly dependent on the manufacturing accuracy of very small parts and part features. Dr. Stone's probe has led to significant gains in a number of fundamental measurement areas that depend on dimensional measurement accuracy, such as small holes (nozzles, fuel injectors), apertures (radiometric physics), and deep holes (optical ferrules).

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Gold Medal

LEADERSHIP

Paul S. Chang
Eugene D. Legg
Physical Scientists

National Environmental Satellite, Data, and Information Service

Hugh D. Cobb III
Roger T. Edson
James L. Franklin
Richard D. Knabb
Joseph M. Sienkiewicz
Meteorologists

Kevin Schrab
Physical Scientist

National Weather Service

National Oceanic and Atmospheric Administration

Under Chang's leadership, this team revolutionized the analysis of tropical and extra-tropical systems, greatly enhancing the accuracy of operational analyses, forecasts and warnings by using ocean surface vector winds observed by QuikSCAT, a research satellite launched in 1999. Legg ensured timely access to data and derived products, while Schrab extended that access to Pacific forecast offices. Edson developed the basic analysis techniques and applied them to Pacific tropical cyclones. Franklin and Knabb applied them to Atlantic tropical cyclones, Cobb to other tropical marine analyses, and Sienkiewicz to the mid-latitudes, especially winter storms.

William Hogarth
Assistant Administrator for NOAA Fisheries

Laura Cimo
Matteo Milazzo
Policy Analysts

Mark Holliday
Supervisory Policy Analyst

Steven Murawski
Senior Scientist and Director of Research Programs

Samuel Rauch III
Deputy Assistant Administrator for Regulatory Programs

Alan Risenhoover
Director, Office of Sustainable Fisheries

Heather Sagar
Management and Program Analyst

Carrie Selberg
Fishery Management Specialist

Galen Tromble
Fish and Wildlife Administrator

National Marine Fisheries Service

Christopher Scheve
Senior Policy Advisor

Office of the Secretary

Leah Harrelson
Legislative Affairs Specialist

Assistant Secretary for Legislative and Intergovernmental Affairs

Kevin Allexon
Policy Advisor

Karl Anderson
Legislative Affairs Specialist

C. Stewart Harris
Congressional Affairs Specialist

Adam Issenberg
Assistant General Counsel for Fisheries

Constance Sathre
Attorney Advisor General

Office of the Under Secretary

National Oceanic and Atmospheric Administration

The team is honored for its work in obtaining passage of the Magnuson-Steven's Fishery Conservation and Management Reauthorization Act (MSRA). The Team crafted a bill, provided technical drafts, congressional and constituent briefings, and testimony, and united disparate interest groups to facilitate its passage. The MSRA embraced President Bush's priorities "of ending over-fishing and rebuilding our Nation's fish stocks through more effective, market-based management and tougher enforcement." Signed January 2007, MSRA sustains the $50 billion U.S. fishing industry.

National Hydropower Team

National Oceanic and Atmospheric Administration

The National Hydropower Team is recognized for its work to ensure sustainability of fish habitats and stocks harmed by dams. Working with partners, the team convinced regulators to accept all DOC prescriptions on three priority hydropower projects blocking 800 river miles. Setting important legal precedents, the projects offer first-ever successes under the Energy Policy Act to increase access to historic habitat, rebuild listed and harvested fish stocks, avoid costly litigation, and prompt major investments by dam owners to enhance fish stocks and habitat for many decades.

Gerald Scott
Supervisory Research Fishery Biologist

National Marine Fisheries Service

National Oceanic and Atmospheric Administration

Dr. Scott is cited for leading the creation of consensus scientific advice for the management of all fisheries under the International Commission for the Conservation of Atlantic Tuna (ICCAT). As Chair of the Standing Committee on Research and Statistics, Dr. Scott led global experts to complete an unprecedented 2006 population assessment of bluefin tuna, blue and white marlin and swordfish species. His scientifically irrefutable recommendations have brought unanimous acclaim for his leadership and accomplishments.

PERSONAL AND PROFESSIONAL EXCELLENCE

Susan L. Baker
Fishery Biologist

National Ocean Service

National Oceanic and Atmospheric Administration

Dr. Baker is honored for conceiving of and developing a series of regional activity books for elementary school-aged children to help develop an appreciation for coastal and ocean resources in their area. In addition to her normal job, Dr. Baker researched, designed, and illustrated the puzzles, fun facts, drawings to color, and other activities in each book. The activity books promote NOAA's goal for environmental literacy and stewardship and have been requested by numerous teachers, including the Louisiana Department of Education for students displaced by Hurricane Katrina.

SCIENTIFIC/ENGINEERING ACHIEVEMENT

Christopher W. Brown
Kent H. Hughes
Linda Stathoplos
Oceanographers

Eugene D. Legg
Physical Scientist

National Environmental Satellite, Data, and Information Service

Mary E. Culver
Physical Scientist

Richard Paul Stumpf
Oceanographer Leader

National Ocean Service

National Oceanic and Atmospheric Administration

The team is honored for delivering operational satellite-derived ocean biology products that support the need for forecasting and monitoring coastal and ocean waters. These ocean biology products, such as chlorophyll levels, help detect harmful algal blooms, assess regional water quality, and locate suitable habitat for important marine species. NOAA now relies daily on these products to provide information to its customers involved in ocean and coastal management. These ocean biology products are essential for NOAA to achieve its mission to maintain healthy aquatic ecosystems.

Geoffrey J. DiMego
Supervisory Meteorologist

Thomas Lee Black
Dennis A. Keyser
Geoffrey Stephen Manikin
Matthew E. Pyle
Eric Rogers
Wan-Shu Wu
Meteorologists

Ying Lin
David L. Michaud
Information Technology Specialists

David Franklin Parrish
Physical Scientist

National Weather Service

National Oceanic and Atmospheric Administration

The team is honored for the implementation of a new Weather Research and Forecast (WRF) system, a common modeling system which promotes efficient transition of scientific collaborative research into operations. This collaboration is an advance for the Nation's scientific community and binds the operational and research communities to realize full societal benefits of the WRF system. In addition, there has been an accelerated use of this model by training groups supporting the advancements of the workstation version of the model in underdeveloped areas, such as Africa.

Thomas R. Karl
Director, National Climatic Data Center

Thomas C. Peterson
General Physical Scientist

Richard William Reynolds
Research Oceanographer

Russell S. Vose
Supervisory Physical Scientist

National Environmental Satellite, Data, and Information Service

John R. Lanzante
Dian J. Seidel
Meteorologists

Christopher D. Miller
Physical Scientist

Venkatachalam Ramaswamy
Senior Scientist, Geophysical Fluid Dynamics Laboratory

Office of Oceanic and Atmospheric Research

National Oceanic and Atmospheric Administration

The group is cited for coordinating and drafting a Climate Change Science Program report on Temperature Trends in the Lower Atmosphere. This report is an important revision to and update of the conclusions of earlier research where discrepancies were found between the amount of warming in the surface and upper layers of the atmosphere. These discrepancies no longer exist because errors in observational data have been identified and corrected. The most recent analysis described in this report has increased confidence in the understanding of observed climate changes and their causes.

Tina Marie Aulani Wilhelm
Reserve Coordinator

Vincent A. Collins
Program Specialist

Sean Flynn Corson
Physical Scientist

Randall K. Kosaki
Research Coordinator

Edward Lindelof
Program Analyst

Moani Pai
Program Support Coordinator

Michael Ian Weiss
Deputy Director, National Marine Sanctuaries

National Ocean Service

Michael Tosatto
Supervisory Fish Administrator

National Marine Fisheries Service

Daniel Cohen
Chief Counsel

Office of the General Counsel

Jane H. Chalmers
Mary E. Ward
Deputy General Counsels

Alexa Anne Cole
Elizabeth J. Kohl
Theodore M. Beuttler
Attorney Advisors

Silar R. Deroma
Joel R. LaBissonniere
Supervisory Attorney Advisors

Adam Issenberg
Assistant General Counsel for Fisheries

Office of the Under Secretary

National Oceanic and Atmospheric Administration

The team is recognized for its support of the establishment of the Northwestern Hawaiian Islands (NWHI) Marine National Monument. Established by President Bush in June 2006, the NWHI are the world's largest fully protected marine conservation area, featuring some of the healthiest and extensive coral reefs in the world. It is also home to the endangered Hawaiian monk seal, is the nesting grounds for 90 percent of Hawaii's threatened green sea turtles and over 14 million seabirds, and is the only home to four endangered land birds. The NWHI are also culturally significant to Hawaii's indigenous population.

CUSTOMER SERVICE

Gerald L. Mader
Supervisory Geodesist

Neil D. Weston
Geodesist

National Ocean Service

National Oceanic and Atmospheric Administration

The group is recognized for the design, implementation and operation of the Online Positioning User Service (OPUS). OPUS is a web-based tool which provides free, world-wide, centimeter-level positioning by automatically processing Global Positioning System data for users. The system, currently in use by 280 federal, state and local agencies, has significantly shortened the time and cost required to obtain high accuracy horizontal and vertical positioning anywhere in the Nation.

HEROISM

LCDR Mark Nelson
Aircraft Commander

James Barr
Lead Electronics Technician

LCDR Joseph Bishop
LCDR Peter Siegel III
Navigators

Joseph Klippel
Flight Engineer

Terry Lynch
William Olney
Electronics Technicians

James McFadden
Project Manager

LCDR Carl Newman
Pilot

Tom Shepherd
Flight Director

Office of Marine and Aviation Operations

National Oceanic and Atmospheric Administration

The group is honored for its heroic efforts in returning a NOAA WP-3D aircraft safely to base following a catastrophic in-flight engine failure. On February 9, 2007, the aircraft sustained a simultaneous failure of three of its four engines within minutes of each other while flying at 3,000 feet above the North Atlantic in a powerful winter storm 550 miles from the nearest land. The WP-3D cannot maintain altitude on one engine and, if not for the sheer will and exceptional teamwork of the crew to get the engines restarted, the outcome would have been disastrous.

Silver Medal

LEADERSHIP

Roy Crabtree
Regional Administrator,
Southeast Region

Heather Blough
Sarah Devido
Fishery Biologists

Rodney Dalton
Peter Hood
Philip Steele
Fish and Wildlife Administrators

Antonio Lamberte
Industrial Economist

David McKinney
Supervisory Criminal Investigator

John D. Reed
Information Technology Specialist

National Marine Fisheries Service

Monica Smit-Brunello
Attorney Advisor

Office of the Under Secretary

National Oceanic and
Atmospheric Administration

The team is recognized for the design and implementation of the Red Snapper Individual Fishing Quota (IFQ) Program, the first dedicated access privilege program in the Gulf of Mexico. The team developed an interactive voice recognition technology to enable eligible fishermen to report pounds of landed red snapper anytime via cell phone. The team integrated this data with an internal permits information system to create a web-based tool to give managers daily status of IFQs and fishermen their IFQ balances to plan for future fishing. This has raised the average ex-vessel price 28 percent over 2005 prices.

Lindy S. Johnson
Attorney Advisor

Office of the Under Secretary

Richard Merrick
Supervisory Research Oceanographer

Gregory Silber
Barbara Zoodsma
Fishery Biologists

National Marine Fisheries Service

National Oceanic and
Atmospheric Administration

The team is cited for developing a strategy with the U.S. Coast Guard and members of the International Maritime Organization to reduce ship strikes of North American Right Whales. The primary factor hindering the ability of the whales to recover from endangered species status is their collisions with ships. Based on extensive scientific analyses, multi-lateral negotiation, and new public policy, vessel speed restriction zones are improving the potential for right whale recovery and survival.

Daphne MacFarlan
Thomas Moore
Marine Habitat Resource Specialists

National Marine Fisheries Service

Kevin Kirsch
Sean Meehan
Oceanographers

National Ocean Service

National Oceanic and Atmospheric Administration

The team is cited for developing and implementing the *T/V Margara* emergency coral reef restoration project. Following the destructive grounding of a 748 foot oil tanker, the *T/V Margara*, near Guayanilla, Puerto Rico, 8,500 square meters of unspoiled reef were crushed and thousands of corals were dislodged. Working hundreds of hours underwater to remove toxic anti-fouling paint, the team devised and used new reattachment techniques and successfully reattached over 10,500 corals, including 1,000 colonies of Acropora cervicornis, a threatened species.

SCIENTIFIC/ENGINEERING ACHIEVEMENT

Randall Absolon
Biologist

Gordon Axel
Brian Burke
Kinsey Frick
Eric Hockersmith
Darren Ogden
Research Fishery Biologists

Byron Iverson
Mark Kaminski
Samuel Rambo
Electronics Technicians

Bruce Jonasson
Lead Electronics Engineer

National Marine Fisheries Service

National Oceanic and Atmospheric Administration

The team is recognized for its cutting-edge radiotelemetry equipment and research techniques giving Department managers and partners robust data on passage and survival of Endangered Species Act-listed salmon through the Columbia River Basin hydrosystem. Timely, precise data on successful salmon passage and survival is now used to plan for the following year's river operations to protect the species. Data is processed in days at a yearly savings of over $100,000. This lead time also enables cost effective use of spill waters by the hydroelectric industry, which spends more than $100 million on spill annually.

Kathryn Bisack
Operations Research Analyst

Heather Haas
Henry Milliken
Kimberly Murray
Debra Palka
Marjorie Rossman
Gordon Waring
Research Fishery Biologists

John Higgins, Jr.
Glenn Salvador
Equipment Specialists

John Kenney, Jr.
Mechanical Engineer

National Marine Fisheries Service

National Oceanic and Atmospheric Administration

The team is cited for its efforts assisting the recovery of dolphin/porpoise stocks and marine turtles to sustainable populations. With minimal impact to northwest Atlantic Ocean commercial fisheries, the team devised data collection and analytical methods to estimate incidental catch and developed economically efficient gear-based solutions to reduce incidental catch. These efforts reduced fisheries with incidental dolphin catch exceeding allowable levels from 10 to zero, and reduced turtle catches from 100s to near zero, in key fisheries.

Edward DeMartini
Research Fishery Biologist

National Marine Fisheries Service

National Oceanic and Atmospheric Administration

Dr. DeMartini is recognized for developing a new visual survey and analytical techniques to provide the scientific basis for implementing protective measures for degraded coral reef ecosystems. Without sacrificing physical specimens, he produced peer-reviewed evidence of depleted fish populations. Since these resources often underwent depletions before data were collected, Dr. DeMartini substituted fished-versus-un-fished comparisons among islands for before-and-after comparisons. Analyzing differences in fish sizes, abundance, and maturity, he quantified negative impacts of fishing on reef fish communities.

Christopher D. Elvidge
Physical Scientist

National Environmental Satellite, Data, and Information Service

National Oceanic and Atmospheric Administration

Dr. Elvidge is cited for producing a first-ever, satellite-derived estimate of global gas flaring. He developed techniques and demonstrated capabilities for using Earth imagery data to estimate current and historic rates of natural gas flaring in petroleum extraction and production. Gas flaring wastes this limited resource and contributes to greenhouse gases in the atmosphere. Dr. Elvidge's success in creating a first-ever index of natural gas flaring is an outstanding example of effective use of satellite imagery data in support of voluntary efforts to reduce global gas flaring rates.

Randall C. Johnson
Electronics Engineer

Office of Oceanic and Atmospheric Research

National Oceanic and Atmospheric Administration

Mr. Johnson is honored for developing a NOAA "Smart Balloon" which has greatly advanced our understanding of atmospheric behavior. This balloon has been deployed in seven air quality and hurricane research experiments since 1992, leading to significant advances in the understanding of marine boundary layers, atmospheric dynamics within hurricane inflow regions, and the chemistry of gaseous atmospheric constituents. In 2004, a Smart Balloon carrying a miniature ozone sensor successfully traveled from Long Island, NY to Morocco, setting a distance record for a low-level autonomous balloon flight across the Atlantic.

W. Paul Menzel
Senior Scientist

Donald G. Gray
John Frederick Sapper
Physical Scientists

Kent H. Hughes
Eileen M. Maturi
Oceanographers

Richard William Reynolds
Research Oceanographer

Xiangqian Wu
General Physical Scientist

National Environmental Satellite, Data, and Information Service

Jeffrey Polovina
Supervisory Mathematical Statistician

National Marine Fisheries Service

Gary Lee Hufford
Physical Scientist

National Weather Service

National Oceanic and Atmospheric Administration

The team is recognized for introducing the first-ever hourly sea surface temperatures (SST) from geostationary satellite measurements. This product has revealed diurnal warming that is distinct from climate trends, improved offshore weather forecasts, and enabled more timely services relating to coral health, endangered species protection, fisheries and marine mammal management, and other environmental applications.

Cheng-Zhi Zou
Physical Scientist

National Environmental Satellite, Data, and Information Service

National Oceanic and Atmospheric Administration

Dr. Zou is honored for developing an innovative and unique satellite instrument intercalibration technique, which allowed data from several NOAA satellites to be merged into a single consistent, long-term, climate-quality record. He analyzed this 25-year record to determine the global trends in atmospheric temperature. His result, a global temperature increase of 0.20°C per decade, is consistent with trends observed from surface weather stations. His work adds substantially to the robustness of observed atmospheric temperature trends.

CUSTOMER SERVICE

John C. Broyles
Richard L. Thompson
Meteorologists

National Weather Service

National Oceanic and Atmospheric Administration

The group is honored for the first-ever issuance of a "high risk" tornado outlook 24 hours in advance of a major tornado outbreak. Since 1986, the Storm Prediction Center has over 14,000 Convective Outlooks for the next day, with the most strongly worded forecasts being for a "moderate risk" of tornadoes. On April 6, 2006, these forecasters forecast a "high risk" before an outbreak of 70 tornadoes, with 9 strong or violent, over the Tennessee Valley. This forecast allowed emergency managers, media, and the public to prepare, undoubtedly reducing the number of fatalities.

NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION

LEADERSHIP

Milton E. Brown
Deputy Chief Counsel

Office of the Chief Counsel

William O. Cooperman
Director, Public Broadcasting Division

Charles J. Mellone, Jr.
Anita L. Wallgren
Anthony G. Wilhelm
Communications Policy Specialists

Wayne A. Ritchie
Management and Program Analyst

Office of Telecommunications and Information Applications

Jeffery A. Wepman
Electronics Engineer

Institute for Telecommunication Sciences

National Telecommunications and Information Administration

The team is recognized for leadership and vision in developing the Final Rule for the Digital-to-Analog Converter Box Coupon Program in record time. The team resolved complex business, consumer, regulatory and technical issues to provide the foundation for administering the $1.5 billion coupon program. This will provide coupons to American households to convert television sets to the digital format required for television broadcasts in 2009. The work of the team ensures that all Americans will continue to receive television broadcast service with improved digital quality.

OFFICE OF THE GENERAL COUNSEL

PERSONAL AND PROFESSIONAL EXCELLENCE

Parvin Huda
Thea Kendler
Senior Counsels

Glenn Kaminsky
Peter Klason
Charles Wall
Senior Attorneys

Peggie Davis
Secretary

Sandra Lambright
Senior Paralegal Specialist

Melissa Mannino
Chief, Enforcement and Litigation

Gregory Michelsen
James Pelletier
Attorney Advisors

Office of the General Counsel

The team is honored for its administrative prosecution of the Bureau of Industry and Security's (BIS') export enforcement cases. In Fiscal Year (FY) 2006, the team successfully closed 95 cases imposing $13 million in civil penalties. These are record statistics that represent a more than 50 percent increase from FY 2005, and an almost 300 percent increase from FY 2003. This achievement greatly aided BIS' mission of enabling continued U.S. technology leadership around the world while keeping the most sensitive items out of the most dangerous hands.

OFFICE OF INSPECTOR GENERAL

Silver Medal

PERSONAL AND PROFESSIONAL EXCELLENCE

Jennifer H. Nobles
Senior Program Analyst

Office of Inspections and Program Evaluations

Office of Inspector General

Ms. Nobles is recognized for her leadership and expert guidance in managing an 8-year, comprehensive body of OIG work in the area of dual-use export controls. Her superior leadership of this congressionally mandated series of reviews has resulted in substantial improvements in the effectiveness of the Department's policies, procedures, and practices for the licensing and enforcement of exports of U.S. dual-use goods and technologies.

Vernan W. Roberson
Criminal Investigator

Office of Investigations

Office of Inspector General

Special Agent Roberson is recognized for his extraordinary efforts in spearheading the first-ever federal investigation of a telemarketing fraud scheme facilitated by the use of Voice over Internet Protocol technology. The scheme was perpetrated by callers in Costa Rica posing as Commerce employees, who defrauded U.S. residents of more than $30 million by soliciting payments for the release of cash prizes allegedly won in sweepstakes or national lotteries. To date, the investigation has resulted in nearly a dozen convictions and recovery of $1.4 million in restitution for victims.

PATENT AND TRADEMARK OFFICE

Gold Medal

LEADERSHIP

Wodajeneh Cherinet
Supervisory Information Technology Specialist

Office of the Chief Information Officer

Jay P. Lucas
Administrative Patent Judge

Office of the General Counsel

Donald Levin
Supervisory Information Technology Specialist

William T. Stryjewski
Patent Business Analyst

Search and Information Resources Administration

Patent and Trademark Office

The group is honored for successfully developing Electronic Filing System (EFS)-Web, an electronic patent application submission system. EFS-Web was designed from customer input and provides a highly secure web-based system that allows patent practitioners an easy and convenient way to file patent applications. EFS-Web automates and eliminates manual receipt and associated preprocessing activates projected to save the U.S. Patent and Trademark Office over $6 million annually.

Silver Medal

LEADERSHIP

Bruce M. Kisliuk
Patent Examining Group Director

Richard T. Elms
Patrick J. Ryan
Jill A. Warden
Michael P. Woodward
Supervisory Patent Examiners

Commissioner for Patents

Jeffrey A. Harrison
Pamela A. Reynolds
Librarians

Yen Minh Nguyen
Supervisory Patent Classifier

Search and Information Resources Administration

Patent and Trademark Office

The group is recognized for developing a series of four nanotechnology patent initiatives which significantly improved the effectiveness of nanotechnology examination. These include an annual U.S. Patent and Trademark Office Nanotechnology Customer Partnership meeting, a monthly examiner nanotechnology training series, a new nanotechnology classification cross-reference collection, and an examining resource page to assist in examining nanotechnology patent applications. Proper patent protection plays a key role in the vital nanotechnology development and deployment to the economy.

PERSONAL AND PROFESSIONAL EXCELLENCE

Jennifer Lo
Program Analyst

Office of the Under Secretary and Director

Patent and Trademark Office

Ms. Lo is recognized for her significant contribution to U.S. Patent and Trademark Office (USPTO) leadership training. As the Program Analyst in the Office of the Under Secretary and Director of the USPTO, Ms. Lo identified a void in USPTO leadership training and single-handedly addressed it by organizing USPTO's first-ever all-managers' conference. The resulting conference offered a unique opportunity for managers to unify as a true management team. Ms. Lo's action boosted morale and resulted in a renewed sense of managerial professionalism toward the Agency's mission.

EXTERNAL AWARDS

ARTHUR S. FLEMMING AWARD

Kent D. Irwin
Physicist

National Institute of Standards and Technology

Dr. Irwin was recognized for the invention and application of Transition-Edge Sensors to some of the world's most difficult detector problems, enabling highly sensitive measurements to be made in a breadth of areas that would otherwise be impossible. Detectors based on Dr. Irwin's innovations are being used to analyze nanoscale defects for the semiconductor industry, to search for the dark matter that makes up 80% of the matter in the universe, and to count individual photons to improve the security of quantum communications. They provide new capabilities for the verification of international non-proliferation treaties by determining the plutonium content of spent nuclear fuel. They will be used to probe the first moments of the universe by measuring the polarization pattern that gravity waves from the big bang imprinted on the cosmic microwave background.

David L. Jacobson
Physicist

National Institute of Standards and Technology

Dr. Jacobson was recognized for his accomplishments and leadership which have led to the development and application of cutting-edge neutron metrology techniques to address key technical barriers to the development of robust and efficient hydrogen fuel cells. His leading role in developing the world's most advanced neutron imaging station to study water transport in fuel cells has required innovative design ideas, comprehensive and effective approaches to solving unique problems, clear and thorough understanding of the underlying principles, and excellent mathematical and computing skills. This facility is now used by most major fuel cell manufacturers and automotive companies (GM, Chrysler, et al.) and many universities and National Laboratories. Through the research done at this facility, NIST and the entire Department of Commerce are playing a crucial role in the development of alternative power sources for the future, an area of extremely high national priority.

James V. Porto
Physicist

National Institute of Standards and Technology

Dr. Porto has built a world-class experimental program and research team to attack the problem of quantum processing with neutral atoms. The project started in 2000 with an empty room and vague ideas. By 2003, he was leading the effort and had established NIST's program in neutral atom quantum information as one of the top two in the world. This past year, he has arguably made it the premier effort. Recently, he invented and demonstrated an optical lattice of double wells as a testbed for the elementary operations needed for a neutral atom quantum computer. With it he has demonstrated the basic elements for quantum computation. In the process he has published several high impact papers, with three new manuscripts prepared in the first months of 2007. In 2006, he was awarded both a NIST Bronze Medal and a Presidential Early Career Award in Science and Engineering.

Many thanks to those individuals who contributed so much to today's program.

Special thanks to:

Michael R. Osver
Jordan Andrews

Incentive Awards Program Officers of the Department

Cheryl Woodard . . . . . BIS

Felecia Newman . . . . . Census

Brenda Davidson . . . . . EDA

Charlene Gantt . . . . . ITA

Sheila Jones . . . . . NIST

Jennifer Heyob . . . . . NOAA

Azalea Nunnally . . . . . OIG

Kathleen Cappone . . . . . PTO

Armed Forces Color Guard
Military Band

Multimedia Division

Honor