

*Forty-Fourth Annual
Honor Awards Program*



1992

United States Department of Commerce

*Forty-Fourth Annual
Honor Awards Program*



**Department of Commerce Auditorium
Herbert C. Hoover Building**
Fourteenth Street and Constitution Avenue, N.W.
November 9, 1992

Music

First U.S. Army Band

Introduction

Elizabeth W. Stroud
Director for Human Resources Management

Presentation of Colors

Armed Forces Color Guard

National Anthem

First U.S. Army Band

Address

Honorable Barbara Hackman Franklin, Secretary of Commerce

Announcement of Awards

Honorable Preston Moore
Chief Financial Officer and
Assistant Secretary for Administration

Presentation of Silver Medals

Secretary Franklin assisted by Departmental Officials

Presentation of Gold Medals

Secretary Franklin assisted by Departmental Officials

Closing Remarks

Honorable Preston Moore
Chief Financial Officer and
Assistant Secretary for Administration



Message From The Secretary

Recently I dealt with one of the most rewarding—and pleasant—responsibilities that a Secretary of Commerce is given. I was presented with the many outstanding nominations for employees to be recognized with the Department's prestigious Gold or Silver Medal.

The list included extraordinary achievements that benefit the nation or the world as well as major contributions in support of the Department's overall goals.

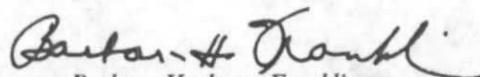
From the nominations and our final selections, it is clear that the talented and dedicated men and women of the Commerce Department are on the job for the American people in every state of the union and around the world. They perform a vast array of duties in sometimes lonely, sometimes dangerous circumstances.

However, as is evident in the award citations, they all share a common goal: doing the best job possible for America. As President Bush said at my swearing in ceremony, we have a "very able" team at Commerce.

These special awards that are being presented today go to the all-stars of that team. They signify a quality of performance, a commitment to excellence and a steadfastness in the face of obstacles that is second to none. Importantly, they also reflect the superb caliber of teamwork there is in the Commerce Department. It is teamwork which enables each one to perform at the utmost level of his or her abilities.

At this exciting time in history with new governments turning to free markets, Commerce is America's front line for economic growth and creating new jobs. We can all be very proud of the men and women we are honoring today and of all our Commerce employees.

It is a great pleasure for me to congratulate each of the recipients and to extend my best wishes for continued success.


Barbara Hackman Franklin



GOLD MEDAL RECIPIENTS

*This award, the highest
honorary award given by the
Department, is granted by
the Secretary for rare and
distinguished contributions
of major significance to the
Department, the Nation,
or the world.*



Robert A. Schoonmaker
Senior Special Agent

Bureau of Export Administration

Special Agent Schoonmaker is recognized for his unusually outstanding efforts and achievement in uncovering the illegal export of controlled dual-use and military technology to Iraq and in building the strong case for prosecution of the parties responsible for the unauthorized activity. His investigation concerning Iraq's acquisition of cluster bomb technology permitted the United States to alter its strategy during Operation Desert Storm, thereby enhancing the safety of Allied ground forces, and facilitated location of previously unidentified military targets in Iraq. As a result of his superior work, more than \$30 million in assets were seized.



Don Lee Adams
Chief, Foreign Trade Division

*Bureau of the Census
Economics and Statistics Administration*

Mr. Adams' leadership and managerial talents have been directly responsible for the great strides that the Census Bureau's foreign trade statistics program has taken in recent years. During a time of increasing criticism of the quality of economic data, Mr. Adams directed the implementation of significant improvements in the areas of data collection, data quality and data products. One of the more noteworthy accomplishments is the U.S.-Canadian Data Exchange Program. This resulted in the elimination of the filing of over 2 million Shipper's Export Declarations and the increase in coverage of export trade by over \$20 billion annually.



Donald R. Dalzell

*Assistant Division Chief for
Processing*

*Bureau of the Census
Economics and Statistics Administration*

Mr. Dalzell is recognized for his extraordinary achievements in support of the 1990 Decennial Census. Mr. Dalzell is the principal architect of the census processing system. He is credited with pioneering flow processing using a national address file to control data collection and processing down to the level of individual housing units. Tracking of over 100 million units required design, integration, and programming of software for distributed collection and processing sites. This system allowed the Bureau to control and monitor activities in the 458 district offices as well as the critical operations in the seven processing centers. Mr. Dalzell produced final data of unprecedented quality in a timely fashion to meet ambitious tabulation and publication goals.



Robert S. Connan
Commercial Counselor

Carmine G. D'Aloisio
Commercial Attache

John Breidenstine
Commercial Officer

Thomas A. Rosengren
Trade Specialist

Jeffrey Hawkins
Corey Wright
International Trade Specialists

International Trade Administration

Messrs. Connan, D'Aloisio, Breidenstine, Rosengren, Hawkins, and Wright are recognized for their outstanding performance in achieving critical program goals in an exemplary and selfless manner immediately after the Iraqi occupation of Kuwait. This was often accomplished at personal risk and with unusual courage, energy and extraordinary good judgment in the period immediately following the cessation of hostilities in March 1991. Through their tenacity, superb business instincts and personal dedication, they succeeded in raising the U.S. share of the Kuwaiti market from a pre-war level of fifteen percent to more than sixty-five percent, representing an extraordinary contribution to the economic welfare of this Nation.



North American Free Trade Agreement Team

International Trade Administration

The North American Free Trade Agreement (NAFTA) team, led by the International Trade Administration's Office of Mexico with strong support across ITA, and in collaboration with the Office of the General Counsel, the National Institute of Standards and Technology, the Patent and Trademark Office and the National Oceanic and Atmospheric Administration, made outstanding contributions to the negotiations that resulted in this historic accord. The Department played a critical role in the negotiations, coming to the table with a cogent plan that incorporated industry views into a national perspective. The NAFTA team developed innovative programs and commercial analyses to educate the Congress and the business community on the merits of a NAFTA.

Henry R. Beasley

Director, Office of International Affairs

National Oceanic and Atmospheric Administration

Mr. Beasley is recognized for leading the Department's efforts to achieve the end to foreign large-scale driftnet fishing on the high seas. His unusually outstanding leadership involved coordinating negotiating positions, tactics, and strategy between 6 offices within the Department and 3 other agencies over a period of 40 months. These efforts made possible the United Nations mandated moratorium on this fishing practice by December 31, 1992. The precedents set by this achievement will assist the United States in addressing other foreign high seas fisheries. The achievement is of international proportions, far exceeding expectations in accomplishing U.S. goals, and bringing credit to the Department's service to the Nation and the international community.



William W. Fox

Assistant Administrator for Fisheries

*National Oceanic and Atmospheric
Administration*

Dr. Fox is recognized for extraordinary administration of the National Marine Fisheries Service (NMFS). Under his leadership, NMFS has produced a new and vibrant organization, more assured of responding to complex challenges and daily crises that define management of the sea's wealth. NMFS has been transformed, in the eyes of both the American public and NMFS itself, from an agency universally-perceived as having problems defining goals and priorities to one of the best-managed and most forward-looking resource agencies in the U.S.



James R. Lucas

Chief, Special Programs

*National Oceanic and Atmospheric
Administration*

Mr. Lucas is cited as one of the first to recognize the potential of the Global Positioning System (GPS) for improving the efficiency and productivity of photogrammetric operations. Mr. Lucas developed the equations and techniques for positioning the camera and orchestrated the first successful demonstration of GPS-controlled photogrammetry. This scientific achievement represents a technological breakthrough that resolves the longstanding problem of conducting shore-based control work for airborne survey operations and radically advances the state of the art.



John H. Robinson

*Chief, Hazardous Materials Response
Branch*

William R. Pendergrass

Physical Scientist

Robert C. Clark

Oceanographer

Richard Permenter

Chief, Career Development Division

Bruce B. Hicks

Director, Air Resources Laboratory

*National Oceanic and Atmospheric
Administration*

Through the efforts of this group, successful U.S. emergency assistance has been provided in response to the environmental aftermath of the Persian Gulf war. The group coordinated U.S. atmospheric science and marine response programs in the Middle East, ending with the recent completion of the Mt. Mitchell's successful research cruise. The group was responsible for providing scientific evaluation of the atmosphere as well as implementing a U.S. atmospheric program in Kuwait. The members often put themselves at significant risk, braved adverse conditions and encountered numerous obstacles to implement the programs.



Steve E. Short

*Transition Director, Transition Program
Office*

*National Oceanic and Atmospheric
Administration*

Mr. Short is recognized for his extraordinary accomplishments with the development of the interagency Automated Surface Observing System. This new system is critically important for NWS Modernization, and enables dramatic productivity improvement in the field work force. The system will also support the FAA and the U.S. Navy, and bring about a substantial increase of nationwide coverage in support of aviation operations. This development has resulted in a technically mature, "field tested" system.



Larry L. Stowe

Meteorologist

*National Oceanic and Atmospheric
Administration*

Dr. Stowe is recognized for his contribution in monitoring the spread of the aerosols caused by the cataclysmic eruptions of the Mt. Pinatubo volcano. He led an effort to develop a technique that would utilize satellite data to yield an estimate of the aerosol optical thickness, or total amount of aerosols in a vertical column of the atmosphere. His photographs of the aerosol optical thickness maps made at given intervals of time, as well as time lapse video loops, clearly show the aerosol layer circling the Earth in 21 days and spreading out over a good portion of the globe.



Willie E. May

*Chief, Organic Analytical Research
Division*

*National Institute of Standards
and Technology
Technology Administration*

Dr. May is recognized for his outstanding contributions to a major international effort to understand the roles of specific chemical species in the prevention of cancer. Dr. May is internationally recognized as an expert in the areas of extraction, separation, and quantitative measurement of organic species and has used this expertise to develop highly accurate measurements for vitamins thought to play critical roles in the prevention of cancer. Dr. May and his research team have developed an electrophoretic technique that makes it possible to monitor the progression of specific cancers early enough to allow effective treatment.



George A. Uriano

*Director, Advanced Technology
Program*

*National Institute of Standards
and Technology
Technology Administration*

Mr. Uriano is recognized for designing and implementing the Advanced Technology Program (ATP), a program aimed at assisting industry to develop and utilize more effectively advanced technology. He successfully developed a program which awards Federal funds based on open competition to applicants for pre-competitive, generic technology to enhance long-term economic growth and industrial productivity. To date, the program has been extremely successful with two competitions resulting in thirty-eight projects in such areas as semiconductors, superconductors, machine tools, advanced ceramics, computer interfaces, automobile manufacturing, and biotechnology.



Wen-Li Wu

Materials Research Engineer

*National Institute of Standards
and Technology
Technology Administration*

Dr. Wu is cited for major contributions to the field of polymer composites through studies of the fiber-matrix interface. To assess interface strength, Dr. Wu developed a test based on the complex thermal expansion properties of composites. A patent was issued on the method and more than 50 companies requested information on its use. A knowledge of the polymer's microstructure near the interface is required to understand and control the interface strength. To address this challenge, Dr. Wu developed a new technique with sensitivity at the molecular level using neutron reflectivity measurements. Results from these tools are providing key understanding of molecular mechanisms of adhesion at the interface, and this will lead directly to improved composite materials.



*SILVER MEDAL
RECIPIENTS*

*This award, the second highest
honorary award given by the
Department, is granted by
the Secretary for meritorious
contributions of unusual value
to the Department or the Nation.*

Thomas J. Saulino

*Chief, Budget Coordination and Reports
Division*

*Chief Financial Officer and Assistant
Secretary for Administration*

Mr. Saulino is recognized for leadership in producing improvements in the effectiveness of the Department's budget system. His ability to anticipate the technical requirements imposed on the Department's budget system by OMB and the Congress and directing bureau performance under these requirements has enabled the Department to establish and maintain an excellent budget process.

James W. Lowry

Senior Special Agent

Bureau of Export Administration

Special Agent Lowry is recognized for his work and personal sacrifice in the investigation and adjudication of two export control cases against firms involved in a network to divert nuclear-related technology to Iran. His skillful handling of these sensitive cases, which attracted significant international attention, drew praise from the American public and industry.

Charles H. Alexander

*Chief, Victimization and Expenditure
Surveys Branch*

*Bureau of the Census
Economics and Statistics Administration*

Dr. Alexander is recognized for his outstanding leadership in the redesign of the Census Bureau's household surveys. He displayed rare initiative in anticipating, preventing and solving problems and in coordinating activities among diverse groups. He was an excellent liaison between Division management and our most critical redesign workgroup and has been the key to the success of the sample redesign.

Carole Ann Ambler

Survey Statistician

*Bureau of the Census
Economics and Statistics Administration*

Mrs. Ambler demonstrated unusual initiative and creativity in developing an approved transaction set and convincing several large retailers to use electronic data interchange (EDI) in the 1992 Census of Retail Trade. EDI has the potential of significantly accelerating the collection of economic statistics and improving data quality, while reducing the reporting burden on large companies.

Betty L. Barker

Chief, International Investment Division

R. David Belli

*Assistant Division Chief, International
Investment Division*

Colin B. Brown

Computer Systems Analyst

Christopher J. Emond

Accountant

Ned G. Howenstine

Economist

Ralph H. Kozlow

Chief, Special Surveys Branch

*Bureau of Economic Analysis
Economics and Statistics Administration*

Ms. Barker and Messrs. Belli, Brown, Emond, Howenstine, and Kozlow are recognized for creating a comprehensive data set for foreign-owned establishments by linking BEA's foreign-owned enterprise data with the establishment-based data collected by the Census Bureau and Bureau of Labor Statistics. The new data provides much more perspective on foreign direct investment in individual industries at the national and State levels.

Patricia M. Clark

Assistant Division Chief (Operations)

Bureau of the Census

Economics and Statistics Administration

Ms. Clark is recognized for her excellent management skills. She has ensured the accuracy, completeness, and timeliness of all current survey statistical data. This includes the Nation's economic indicator programs that are dependent upon the Data Preparation Division. Her innovations and attention to detail have resulted in both significant dollar savings and quality improvements.

Lester A. Davis

Senior International Economist

Economics and Statistics Administration

Mr. Davis is cited for completing his fourth outstanding report on U.S. jobs and exports since 1980, reports widely quoted by President Bush, Congress, the media, and others. These reports support the Administration's contention that rising exports are vitally important to U.S. economic and job growth. Mr. Davis' reports rely on innovative methods and provide data on exports and jobs for use by policy officials and researchers.

Peter J. Fronczek

*Chief, Financial and Market
Characteristics Branch*

Bureau of the Census

Economics and Statistics Administration

Mr. Fronczek is recognized for the outstanding quality of results in his role in the successful completion of the 1980 and 1990 Residential Finance Surveys. In addition, he directed several New York City Housing and Vacancy Surveys, and authored numerous papers and reports.

Barry L. Kostinsky

*Assistant Division Chief for Soviet Union
China and Europe*

Bureau of the Census

Economics and Statistics Administration

Mr. Kostinsky is recognized for his contribution, to the first joint government statistical publication between the United States and the former Soviet Union. He pioneered the use of international geographic information systems resulting in the Bureau of the Census and the Department becoming a major source of data on the new republics of the former USSR and the countries of Eastern Europe.

Maureen P. Lynch

Chief, Applications Design Staff

Bureau of the Census

Economics and Statistics Administration

Ms. Lynch is honored for her contributions of software design/development, project management and technical assistance during the 1990 Post Enumeration Survey (PES) processing. Ms. Lynch's leadership, technical skills and flexibility were instrumental in ensuring the timely completion of the PES and were critical to ensuring the accuracy of the data.

George H. McLaughlin

Chief, Collection Control Systems Branch

Bureau of the Census

Economics and Statistics Administration

Mr. McLaughlin is recognized for implementing conceptual controls for census enumeration and processing by individual housing units. He directed the implementation of the Address Control System for the 1990 Census. This system is widely credited with improving the overall effectiveness, efficiency, and quality of the census.

Judith N. Petty

Chief, Census Processing Staff

Bureau of the Census

Economics and Statistics Administration

Ms. Petty is recognized for her exceptional planning, coordination, and direction of all phases of the Data Preparation Division's (DPD's) involvement in the 1980 and 1990 Decennial and 1982, 1987, and 1992 Agricultural/Economic Censuses. Through her outstanding managerial abilities she has provided impetus to significant innovations in automated data processing methodologies applied to large-scale census activity at DPD and the Census Bureau.

Marvin D. Raines

Chief, Computer Services Division

Bureau of the Census

Economics and Statistics Administration

Mr. Raines is recognized for his exceptional leadership in effectively meeting the complex operational challenges faced by the Census Bureau's data processing facilities. His innovative style and cooperative managerial approach have resulted in productivity and reliability improvements, enhanced customer satisfaction and confidence, and improved morale and technical competence among his staff.

Isabella Cointepas

Commercial Specialist

International Trade Administration

Ms. Cointepas is recognized for outstanding contributions to Departmental objectives in Poland and Russia. These extracurricular activities came on top of an extraordinary year of achievement within US&FCS France. Her preparation of the industry sector portion of the Country Marketing Plan and supervision of Industry Sector Analyses were superb and brought high commendation from Washington for the critical support they provided to US&FCS Strategic Review priorities.

Japan Export Information Center

International Trade Administration

The Japan Export Information Center is recognized for designing and implementing a new commercially-driven approach to counselling U.S. exporters targeted on Japan. "Destination Japan", now recognized as one of the best introductions to doing business in Japan, reflects the Center's success in shifting from a traditional desk operation to an assertive and proactive export promotion campaign.

Akapo K. Akapo
Staff Meteorologist

Leloyd M.P. Acosta
Supervisory Meteorological Technician

Joe M. Fiaui
Laauli T. Ifopo
Emani Lelafu
Tanielu Sonoma
Meteorological Technicians

David C. Nardini
Electronics Technician

National Oceanic and Atmospheric Administration

Messrs. Akapo, Acosta, Fiaui, Ifopo, Lelafu, Sonoma and Nardini are recognized for exceptional meteorological skill in accurately predicting the intensity and path of Tropical Cyclone Val into American Samoa, December 4-10, 1991. Their dedication and service during extremely adverse weather conditions were crucial to providing accurate hurricane warnings and advisories.

Arthur L. Booth
Computer Scientist

James T. Bailey
Chief, SARSAT Operations Division

National Oceanic and Atmospheric Administration

Messrs. Booth and Bailey are recognized for their superior leadership and management in the development and highly successful operation of the new United States Mission Control Center (USMCC) for satellite aided search and rescue. The operation was completed one year ahead of schedule. The USMCC has a 98 percent service availability and 300 lives were saved during its first year of operation.

Francesca M. Cava
Commissioned Officer

Robert M. Reynolds
Oceanographer

National Oceanic and Atmospheric Administration

Commander Cava and Dr. Reynolds are recognized for enlisting the support of the international community in NOAA's efforts to lend environmental assistance to the nations bordering the Persian Gulf. The international community, with leadership from NOAA, marshalled its scientific resources to provide a broad base of support to the region, ending in the Mt. Mitchell's historic environmental survey of the Persian Gulf.

Gary P. Ellrod
Meteorologist

National Oceanic and Atmospheric Administration

Mr. Ellrod is cited for his outstanding research and leadership in the development of analytical and predictive techniques for the improvement of aviation forecasts and safety. Two techniques, Clear Air Turbulence Decision Tree and the Turbulence Index, have been adopted for operational use by the National Meteorological Center, The National Aviation Weather Advisory Unit, US Air Force Global Weather Center, Canadian Meteorological Service, the US Navy, and the FAA.

Henry R. Frey

*Chief, Coastal and Estuarine
Oceanography Branch*

Gerald F. Appell

General Engineer

Thomas D. Bethem

Chief, Information Systems Section

*National Oceanic and Atmospheric
Administration*

Dr. Frey and Messrs. Appell and Bethem are recognized for developing and installing a leading edge, innovative, Physical Oceanographic Real-Time System (PORTS) in Tampa Bay. PORTS provides reliable information about currents, water levels, and winds, that is essential for safe navigation, hazardous material and oil spill response, search and rescue, and environmental management.

James M. Meehan

Supervisory Fishery Biologist

*National Oceanic and Atmospheric
Administration*

Mr. Meehan is cited for his extraordinary effort in producing a comprehensive report on the status of the Nation's living marine resources, "Our Living Oceans." This report documents the status and trends of all significant marine populations, based on the latest scientific information available. This report has already contributed significantly to the welfare of the Nation's marine resources by showing their fragility and the need for wise conservation and management.

NOAA Ship Mt. Mitchell

*National Oceanic and Atmospheric
Administration*

NOAA Ship Mt. Mitchell, Atlantic Marine Center, completed a historic cruise surveying environmental damage to the Persian Gulf caused by oil spills. The cruise is the first major oceanographic survey of the Persian Gulf since 1977 and is the most comprehensive ever in terms of geographic and subject area coverage. Conquering numerous obstacles in a dangerous environment, the crew of the Mt. Mitchell acquired data against which future changes in water quality can be assessed.

**NWS Forecast Office, Norman,
Oklahoma**

*National Oceanic and Atmospheric
Administration*

The National Weather Service Forecast Office in Norman, Oklahoma is cited for contributions which were instrumental in assuring the continuing success of the National Weather Service's modernization. The staff successfully demonstrated the operational readiness of the Nation's new weather surveillance radar and provided invaluable information which is currently being used to specify the requirements of the planned Advance Weather Interactive Processing System.

Robert Pavia
Acting Chief, Scientific Support Branch

Sharon K. Christopherson
Scientific Support Coordinator

Lawrence Jay Field
Marine Biologist

Jerry A. Galt
Chief, Modeling and Simulation Studies

Alan J. Mearns
Biological Assessment Team Leader

Debra L. Payton
Oceanographer

*National Oceanic and Atmospheric
Administration*

NOAA's Hazardous Materials Response and Assessment Division is recognized for outstanding achievements during emergency responses to over 1,000 accidental releases of oil and hazardous materials. Their leadership in technology transfer, spill preparedness planning, and research and development has greatly enhanced NOAA's ability to protect coastal resources and habitats.

Chester F. Ropelewski
Chief, Diagnostics Branch

Gerald D. Bell
Anthony G. Barnston
Meteorologists

Peggie L. Davis
Secretary

John D. Kopman
Meteorological Technician

Vernon E. Kousky
Research Meteorologist

*National Oceanic and Atmospheric
Administration*

This team is recognized for monitoring and predicting the evolution of the current El Nino/Southern Oscillation (ENSO) of 1991-92. By careful, persistent, and energetic efforts, they interpreted research results and applied them to practical problems of monitoring and prediction. Because ENSO also affects North America, successful climate predictions influence a number of important economic decisions with societal implications.

Jack B. Snider*Supervisory Electronics Engineer**National Oceanic and Atmospheric
Administration*

Mr. Snider is recognized for the development of NOAA's steerable microwave radiometer. This instrument provides unique data on cloud liquid and has been extremely useful in NOAA satellite verification efforts. Because of its unique capability, organizations from the U.S. and abroad have acquired instruments based on NOAA's design. The success of the instrument has brought attention to Mr. Snider and NOAA from the scientific community.

William L. Stubblefield*Executive Director, Oceanic and
Atmospheric Research***Charles D. Kearse***Supervisory General Engineer**National Oceanic and Atmospheric
Administration*

Captain Stubblefield and Mr. Kearse completed a design study and initiated the replacement and modernization of the next generation of an ocean fleet. This effort involved Federal agencies, industry, the research community, and foreign nations. Captain Stubblefield's strategy study has provided a blue-print for modernizing NOAA's aged and functionally obsolete ships. Mr. Kearse's fleet replacement and modernization plan is serving as the basis for modernizing NOAA's fleet.

Jerald Dan Tarpley*Chief, Land Sciences Branch**National Oceanic and Atmospheric
Administration*

Dr. Tarpley is recognized for his exceptional contribution to space-based monitoring of the Earth's global vegetation cover. He initiated and successfully implemented a program to measure the amount, health, and vigor of the Earth's vegetation from NOAA's weather satellites. These observations provide vital and unprecedented information for agricultural interests, water resources management authorities, ecologists, and global change researchers.

William D. Gamble*Deputy Associate Administrator**National Telecommunications and
Information Administration*

Mr. Gamble is recognized for outstanding leadership in fostering National spectrum policies that support critical missions of Federal agencies, stimulate new technologies and advance the Secretary's goals on U.S. competitiveness. He has developed consensus on diverse spectrum issues and advanced quality and efficiency in the spectrum management process.

William F. Maher

*Associate Administrator for Policy
Analysis and Development*

*National Telecommunications and
Information Administration*

Mr. Maher is recognized for his extraordinary accomplishments in support of the critical telecommunications objectives of the National Telecommunications and Information Administration and the Department. His contributions reflect a rare combination of telecommunications policy expertise, technical understanding, and leadership and management skills.

Lawrence M. Palmer

Telecommunication Manager

William T. Hatch

*Supervisory Telecommunication
Specialist*

*National Telecommunications and
Information Administration*

Messrs. Palmer and Hatch are recognized for their outstanding leadership and technical contributions in the development and defense of U.S. interests at the 1992 World Administrative Radio Conference (WARC). Their teamwork on the U.S. delegation was a major force in the development and the accomplishment of the U.S. goals at WARC '92, held under the auspices of the International Telecommunication Union in Torremolinos, Spain.

Stephen Wolf

Electronics Engineer

*National Telecommunications and
Information Administration*

Mr. Wolf is recognized for outstanding technical contributions and leadership directed toward the definition, validation, and standardization of cost effective and technology-independent objective measures of video image quality. This research directly supported critical national needs to improve the performance of all forms of digital video telecommunication systems and services, promoting the competitiveness of U.S. industry and its participation in international markets.

**Office of the Assistant General
Counsel for Legislation and
Regulation**

Office of the General Counsel

Through its work in both the legislative and regulatory arenas, the Office of the Assistant General Counsel for Legislation and Regulation has played a key role within the Department in addressing how to enhance this Nation's competitiveness. The Office analyzes and formulates views on thousands of legislative and regulatory items annually, and in so doing it both helps to advance agency decision-making and serves as a forceful advocate for the Department in the interagency review process.

Frederick J. Pinciario
*Assistant Inspector General for
Investigations*

Office of Inspector General

Mr. Pinciario is recognized for the efficient operation of the Office of Investigations over the past year as evidenced by the recently published Semi-Annual Report to Congress. The report describes the most productive period in the history of the Office of Investigations in terms of indictments and convictions. Many of these cases were investigated expeditiously so that government vulnerabilities could be discovered before more harm was done.

J. Steven Sadler
*Deputy Assistant Inspector General for
Auditing*

Office of Inspector General

Mr. Sadler is recognized for his exemplary performance and leadership of Department audits and his personal assistance to Department officials. Mr. Sadler has consistently sought cost reductions, where warranted, or efficiencies without diminishing program operations or services. For example, Mr. Sadler's work resulted in savings of \$34 million during 1991.

Lois E. Boland
Special Program Examiner

Patent and Trademark Office

Mrs. Boland is recognized for her superior leadership and management in drafting and implementing rules relating to the presentation of nucleotide and amino acid sequence information in patent applications in the emerging area of biotechnology. The rules are an important part of an ongoing coordinated effort among the private sector and the patent offices of the world to standardize the use of symbols and the format for sequence information.

Stewart J. Levy
Group Director

David F. Crosby
Gary C. Hoge
Craig S. Miller
Patent Examiners

John J. Doll
Larry I. Schwartz
Supervisory Patent Examiners

Richard K. Lehman
Program Analyst

Jerome W. Massie
Special Program Examiner

Patent and Trademark Office

Messrs. Levy, Crosby, Hoge, Miller, Doll, Schwartz, Lehman and Massie are recognized for their outstanding contributions to the development and implementation of a computer software system. This system permits the PTO examiners to complete, on a personal computer, the numerous correspondence forms necessary in the search and examination of Patent Cooperation Treaty International Applications filed under Chapters I and II.

Ronald F. Boisvert
Computer Scientist

*National Institute of Standards and
Technology
Technology Administration*

Dr. Boisvert is cited for his outstanding research and technical leadership on information management systems for scientific software. The NIST system, adopted by the Federal High Performance Computing and Communications Program, forms the basis of a national scientific software information and distribution service that will save both time and costly duplication of effort for scientists and engineers at widely dispersed sites.

Elaine Buntten-Mines
Director, Program Office

*National Institute of Standards and
Technology
Technology Administration*

Ms. Buntten-Mines is recognized for her contributions in addressing competitiveness/technology issues of national interest. She was instrumental in developing the five-year comprehensive strategic plan which defines the policies and programmatic direction for NIST. In addition to directing the NIST Program Office, she responded to Congressionally mandated requirements on issues such as critical technologies and U.S. competitiveness.

Keith R. Eberhardt
Mathematical Statistician

*National Institute of Standards and
Technology
Technology Administration*

Dr. Eberhardt is recognized for his leadership in the application of statistical methods to the certification of Standard Reference Materials and to the use of SRMs to ensure the quality and consistency of industrial and clinical laboratory measurements. His creative work in modeling and data analyses has added significantly to the quality of NIST technical studies of issues in public health and safety, and in evaluation of new technologies.

Paul S. Julienne
Leader, Molecular Theory Group

*National Institute of Standards and
Technology
Technology Administration*

Dr. Julienne is recognized for his many contributions to the theory of atomic and molecular collisions, but particularly for his pioneering contributions to the understanding of the new and previously unexplored field of ultralow energy atomic collisions. The impact of these theories is such that every group studying these collisions world-wide is either collaborating with him directly or using his calculations.

**Michael H. Kelley
Jabez J. McClelland**
Physicists

*National Institute of Standards and
Technology
Technology Administration*

Drs. Kelley and McClelland are recognized for performing an extraordinary series of experiments utilizing polarized electron, atom, and laser beams to study the electron-atom collision process at its most fundamental level. Such experiments determine all the dynamic parameters for such collisions and constitute the most stringent possible tests of theoretical predictions. Their studies of electron scattering have revolutionized the analysis of quantum physics.

Gregory B. McKenna
Supervisory Physical Scientist

*National Institute of Standards and
Technology
Technology Administration*

Dr. McKenna is cited for outstanding contributions to understanding the mechanical behavior of polymers. Studies of changes in physical properties of polymer glasses subsequent to solidification led to deeper understanding of underlying mechanisms. His research of mechanical behavior of elastomers exposed to swelling agents impacts current thermodynamic models. These experiments provide polymer technologists with tools useful in defining behavior of polymers in service conditions.

David J. Nesbitt
Physicist

*National Institute of Standards and
Technology
Technology Administration*

Dr. Nesbitt is cited for landmark work that includes a complete mathematical formalism and experimental verification for radical-selective, laser-initiated chain reaction kinetic measurements. He is also recognized for his innovative contributions to the development of state-of-the-art stabilized lasers for spectroscopy and the creation of an entirely new approach to the study of rovibrational dynamics of small molecules and clusters using slit supersonic jet expansions.

Thornton J. Parker
Business Technology Specialist

Technology Administration

Mr. Parker is cited for his leadership in researching, analyzing, and testing groundbreaking concepts impacting the flow of capital to technology-based businesses. Among his accomplishments are: Commerce, Treasury and Industry technology financing roundtables; adoption of technology financing in the President's National Technology Initiative; and identification of major financial accounting and investment justification biases against long-term competitiveness-enhancing investments.

Lura J. Powell
Chief, Biotechnology Division

*National Institute of Standards and
Technology
Technology Administration*

Dr. Powell is recognized for her outstanding contributions to a coordinated national biotechnology research effort focused on measurement needs of the scientific community. She created a Biotechnology Division of 70 staff members from seven diverse technical units to address the U.S. biotechnology needs. She has also contributed significant technical expertise as the NIST representative to the Biotechnology Subcommittee of the Federal Coordinating Council for Science, Engineering and Technology.

Gregory J. Rosasco
Chief, Reacting Flows Group

*National Institute of Standards and
Technology
Technology Administration*

Dr. Rosasco is recognized for his outstanding scientific accomplishments in the application of laser spectroscopy to the measurement of temperature and pressure in dynamic reacting systems. His experimental and theoretical modeling work has resulted in improved accuracy of temperature and pressure information derived from Raman spectroscopy and forms the basis for establishment of the world's first primary standard for dynamic measurements of temperature and pressure.

Harry A. Schafft
Electronics Engineer

*National Institute of Standards and
Technology
Technology Administration*

Mr. Schafft is cited for pioneering understanding of the electromigration failure mode that destroys electrically conducting lines on microelectronic chips. This problem has threatened to limit the progression to smaller structures packed at higher densities, adversely impacting the \$29 billion sales (1990) of U.S. devices. He has developed tools for managing this problem in industry. A recent survey provides an estimate of direct benefits to industry of over \$26.6 million.

Kermit C. Smyth
Research Chemist

*National Institute of Standards and
Technology
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Dr. Smyth is a world leader in expanding understanding of the chemical structure of flames and originating optical diagnostics for in-flame species measurements. These are critical to improvements in fire-safe materials, combustor efficiency, and pollution abatement. His team's work includes many first measurements of radical and molecular profiles at high temperatures. Their data are definitive for testing flame models and their techniques are used internationally.

Theodore V. Vorburger
Supervisory Physicist

*National Institute of Standards and
Technology
Technology Administration*

Dr. Vorburger is recognized for his leadership in the development of laboratory techniques and documentary standards for characterizing surfaces of manufactured goods. His work has been the source of calibration of the surface finish of a wide range of industrial products, including machinery, aerospace systems, semiconductors, and optics. Recently, Dr. Vorburger led the development of the longest continuous trace scanning tunneling microscope.

Shukri A. Wakid

Chief, Advanced Systems Division

*National Institute of Standards
and Technology
Technology Administration*

Dr. Wakid is recognized for his exceptional direction of the Advanced Systems Division. He is cited for his leadership in accelerating the use of advanced technologies, in general, and specifically in the areas of Integrated Services Digital Networks, and High Performance Computing and Communications. These program efforts are expected to have significant impact on the competitive position of U.S. industry in high performance computer and networking systems.

Phyllis Genther Yoshida

*Manager, Japanese Technology
Programs*

Susan M. Lipsky

*International Technology Business
Liaison*

Theodore J. Lettes

Manager, Advanced Manufacturing

Paul A. Erickson

Technology Fellow

Technology Administration

The team is cited for a pivotal multilateral study to determine the feasibility of international cooperation in R&D in the crucial area of intelligent manufacturing systems. Agreement in this study was achieved by the sustained and creative efforts of the Technology Administration team. The result is an enormously significant model for balanced multilateral relationships in manufacturing and in other areas of critical technological importance.

EXTERNAL AWARD RECIPIENTS

Arthur S. Flemming Award

Eric B. Steel

Supervisory Physical Scientist

*National Institute of Standards and
Technology
Technology Administration*

Mr. Steel was recognized for developing accurate measurements and standards to identify and quantify bulk and airborne asbestos. His accomplishments are the foundation for accreditation of more than 800 commercial laboratories that measure asbestos in samples from schools.



Interagency Committee on Information Resources Management Award for Technical Excellence

Robert Rosenthal

Manager, Protocol Security Group

*National Institute of Standards and
Technology
Technology Administration*

Mr. Rosenthal was recognized for outstanding technical contributions to the Federal information resources management community, particularly in the fields of local area computer networking and computer security. His accomplishments include development of Federal Standards for local area networks and security protocols necessary to protect both local and wide area distributed computer systems.



DEPARTMENT'S INCENTIVE AWARDS BOARD

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Patent and Trademark Office

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so much to the success of today's program**

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Laverne Hawkins—ITA
Golden Mayberry—O/S
Azalea Nunnally—OIG
Sandy O'Brien—NOAA
Joan Schneider—NIST
Claudia Schwalm—CEN
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Armed Forces Color Guard
Office of Administrative Operations
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Office of Security

