

THIRTY-SEVENTH
HONOR AWARDS PROGRAM
1985



37th ANNUAL HONOR AWARDS PROGRAM



**Department of Commerce Auditorium
Herbert C. Hoover Building**

Fourteenth Street and Constitution Avenue, N.W.
November 13, 1985, 11:00 a.m.

Music

U.S. Marine Band Combo

Introduction

John M. Golden, Director of Personnel

Presentation of Colors

Joint Armed Forces Color Guard

National Anthem

Karen Wiggs-Collins, Office of the Secretary

Address

Honorable Malcolm Baldrige, Secretary of Commerce

Announcement of Awards

Honorable Kay Bulow, Assistant Secretary for Administration

Presentation of Silver Medals

Secretary Baldrige assisted by Departmental officials

Presentation of Gold Medals

Secretary Baldrige assisted by Departmental officials

Closing Remarks

Assistant Secretary Kay Bulow



Message From The Secretary

Excellence comes from hard work. Our pioneers learned this early and dedicated themselves to efforts that would make our Nation great. This standard of excellence has made America first among nations, allowing us to produce competitive products through superior productivity, quality, and innovation.

Government plays a major role helping us maintain our position in the world economy and meet the new challenges of today's global competition. Government must maintain its own standards of excellence in providing an economic environment for business to prosper and in implementing policies to ensure free and fair trade.

The Commerce Department plays a major role in our Nation's economic and trade policies, and every employee is a vital link in this process. The Commerce Honor Awards Program is one of the best symbols of our own commitment to excellence. It singles out dedicated individuals and groups of employees with outstanding accomplishments.

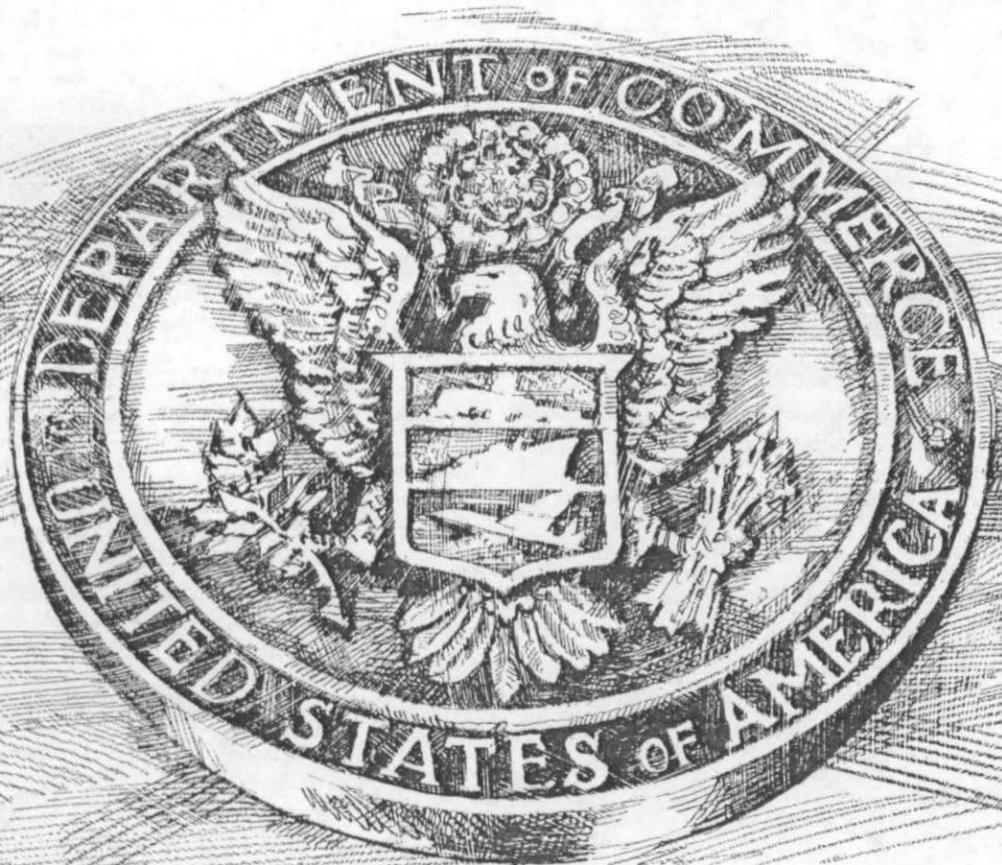
Those receiving medals symbolize both the pioneers of yesterday who led our Nation to prosperity and those of tomorrow who will assure that we remain in the forefront. They have set fine examples for us all. I congratulate them and wish them continued success.

Malcolm Baldrige

Secretary of Commerce

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.





O. Bryant Benton, Jr.

*Associate Director for Management Services
Bureau of the Census*

Mr. Benton has demonstrated exceptional managerial skills. He has a unique ability to grasp problems quickly and perceive nontraditional solutions. Early in his tenure as Associate Director, he realized that the Census Bureau needed both to improve its use of computer time and to increase its computer capacity. To achieve this, he set cheaper rates for work processed during nonpeak hours and upgraded an existing computer. As a result, processing hours increased by over 30 percent while operating costs fell by over \$300,000. The Census Bureau now has the lowest charges for ADP services since the early 1970's. He also was able to save the Bureau over \$5 million by realizing the potential for upgrading available computer equipment. This should allow for early development of the 1990 Census Geographic Support System—a very troublesome area in past censuses. Finally, Mr. Benton oversaw development of an effective, less costly payroll system for our several thousand Field Interviewers. This system serves as the base for developing an automated payroll system for the 1990 census when the Bureau must payroll over a quarter of a million temporary employees.



C. Louis Kincannon

*Deputy Director
Bureau of the Census*

Mr. Kincannon is recognized for his demonstrated outstanding leadership of the Census Bureau. In 1982, as the new Deputy Director, he faced the Bureau's most demanding problems in at least three decades. In 13 months, the Census Bureau lost 22 percent of its expected revenue. Through a series of judicious moves, he was able to lower administrative costs, delete some reports, and reduce the frequency of others. Through these and other efforts, he maintained the statistical integrity of Census Bureau data while preserving its most important programs. Recently, he was recognized by his peers in Government for making a major technological advancement that will improve the quality and timing of the Census Bureau's geographic maps down to the household level. Through the use of sophisticated experimental technology, he is radically changing a product that was a major problem in past demographic censuses.



Dennis J. Polivka

*Accounting Officer
Economic Development Administration*

Mr. Polivka is recognized for achieving lasting improvements not only to the accounting systems of the Economic Development Administration but to the overall effectiveness of the Department. His energy and creativity have made the Department a leader in cash management and debt collection, resulting in significant savings for the Nation's taxpayers. His work in systems development has advanced the state of the art, beginning with the accounting system of EDA itself. He also developed a financial management system for the \$6 billion Local Public Works program and strengthened letter of credit procedures, producing significant interest savings. In the management field, Mr. Polivka has been recognized by the Joint Financial Management Improvement Program for developing a methodology for measuring productivity in Government accounting; the system has been approved for implementation throughout the Federal Government.



Wanda Lee Ale

*Commercial Counselor
U.S. & Foreign Commercial Service
International Trade Administration*

Mrs. Ale, in two years of service as Commercial Counselor in Kuwait, provided outstanding service to the American and Kuwaiti business communities. Mrs. Ale worked under exceptionally adverse and difficult conditions, including the destruction of her offices in a terrorist truck bombing. Undaunted by the continuing security threat, Mrs. Ale reestablished her office and continued to provide the full range of commercial services to the U.S. business community. Mrs. Ale continued to perform with the highest possible dedication, imagination, energy and perseverance. In creating the American Business Council in Kuwait and in organizing a major "Invest in USA" seminar, she made a sustained and lasting contribution to U.S.-Kuwaiti commercial relations, in the finest traditions of the Foreign Commercial Service.



Pierre J. Ausloos

*Director, Center for Chemical Physics
National Bureau of Standards*

Dr. Ausloos is cited for his outstanding leadership of the Center for Chemical Physics. As Director, he has revitalized the Center's programs. Dr. Ausloos has led in the formulation and implementation of a major new program in biotechnology. He has structured the Center's programs to increase emphasis on evaluated data production and to emphasize the essential synergism between experimental programs and data services critical to industry and other Government agencies. In addition, he has led the Center in formulating other essential agency programs which are addressing fundamental national problems such as acid rain formation, hazardous waste disposal, spacecraft survivability, energy production, and conservation. Dr. Ausloos, through his own example of outstanding contributions to chemical physics, and through his improvements in the management of resources, has increased the productivity of the Center for Chemical Physics. He has guided the major refurbishment of laboratories, establishing state-of-the-art facilities which now attract guest workers and visiting scientists from around the world. He has created a unit with high morale and exceedingly high standards of excellence.

Howard R. Baum

Senior Mathematical Physicist

Ronald G. Rehm

*Mathematician
National Bureau of Standards*

Drs. Baum and Rehm have used advanced computer-based methods to increase significantly the scientific and technical basis for reducing fire losses and the cost of fire protection. Drs. Baum and Rehm have developed a precise mathematical model for the study of the evolution of fire in a room. Their model successfully predicts flow patterns of smoke and hot gases at a level of detail far exceeding all previous attempts. Their work represents an outstanding and unique blend of mathematical analysis, fluid dynamics, computational methods, and scientific graphics, which has substantially advanced the state of the art of fire modeling and analysis. The Baum/Rehm modeling tool provides the comprehensive scientific basis for the test and evaluation of engineering design models for improved, cost-effective fire safety environments. The model also provides the essential basis for further fundamental research in fire-related phenomena which is now being used by the Air Force Office of Scientific Research to improve engine performance, and by the U.S. fire community, such as Factory Mutual and Underwriters Laboratories, to validate fire safety provisions.



James C. Bergquist
John J. Bollinger
Wayne M. Itano
David J. Wineland

Physicists
Center for Basic Standards
National Bureau of Standards

Dr. Bergquist, Bollinger, Itano, and Wineland are cited for their pioneering development and use of the techniques of ion storage and radiative ion cooling. Their studies of the physical processes which perturb atomic transitions and limit line-widths have opened the path to development of frequency and time standards with accuracies surpassing those of today's standards by several orders of magnitude. Their preliminary demonstration of a clock based on beryllium already equals the performance of the U.S. (NBS) primary standard. Their mercury ion studies indicate potential for improvements well beyond this accuracy level. In the course of their studies, the group has performed an exacting test of gravitational theory, developed the precise new technique of laser-fluorescence mass spectroscopy, determined atomic structure constants for several atoms, and demonstrated strong-coupling behavior which suggests the existence of novel states in their ion plasmas. These accomplishments, which have important practical and scientific implications, have brought national and international recognition to the members of the group as well as to the Department.

Howard J.M. Hanley

Senior Research Chemist
National Bureau of Standards

Dr. Hanley is a pioneer in the behavior of fluids out of equilibrium. His research resulted in major advancements in the fields of thermodynamics and physics of fluids. This work, coupled with computer simulation techniques, fundamentally altered the science of fluids far from equilibrium, leading to profound changes in theoretical models of complex fluids ranging from polymer solutions to slurry flow. Before Dr. Hanley's work, the prediction of fluid behavior was limited to narrow classes of materials. As a result of his work, industries now have predictive models available which allow them to take the results from one set of compounds and apply them to a broad class of fluids ranging from crude oil to polymer melts. The use of Dr. Hanley's techniques and theories is assisting the industries in the better design, control, and operation of their manufacturing plants. The collaborative relationships Dr. Hanley has established with engineers in industry ensure that his highly theoretical results are correctly transferred to these important practical applications.



Sharon G. Lias

*Supervisory Research Chemist
National Bureau of Standards*

Dr. Lias is being recognized for her exceptional leadership in the development of standards and data in ion energetics and for her outstanding contributions to the field of ion chemistry. As Director of the Ion Energetics Data Center, Dr. Lias has over the last five years increased output by 300 percent and at the same time reduced the required technical staff by a factor of 3. She has established NBS as the focal point for all data activities involving electrically charged species. These data are essential to the synthesis and characterization of chemicals, to the modeling of flames, plasmas, and planetary atmospheres, and in laser design and pollutant identification. She is also the leader of the Ion Kinetics Group which has established a sound reputation in addressing fundamental problems in ion chemistry. Dr. Lias is recognized nationally and internationally for her personal contribution to key measurements of the thermodynamic properties of ions. She has over 100 papers in the field. She is the author of a recent evaluated reference data compilation which has become the definitive source of the thermochemical property of ions.



John C. Stephenson

*Research Chemist
National Bureau of Standards*

Dr. Stephenson is cited for his outstanding contributions to the basic understanding of the dynamics and energy transfer processes in molecules on an ultra short time scale. He has provided excellent leadership to the NBS laser photochemistry program. Dr. Stephenson has established a world class laser photochemistry laboratory as indicated by the constant influx of top class NRC postdoctoral candidates and guest workers. He and his co-workers have generated a number of "firsts," including the quantitative characterization of picosecond laser pulses, the non-equilibrium energy partitioning of the thermal desorption process, and the vibrational deactivation of molecules adsorbed onto surfaces. Their recent work on vibrational deactivation has been rapidly recognized by the international chemical physics community for its significance. Dr. Stephenson has helped establish NBS as a center for creative and carefully executed laser chemistry studies, the results of which will lead to advancements in the control and use of chemical reactions in combustion, environmental, laser, and space applications.



Donald W. Beran

*Supervisory Meteorologist
Office of Oceanic and Atmospheric
Research
National Oceanic and Atmospheric
Administration*

Dr. Beran planned and implemented the Prototype Regional Observing and Forecasting System (PROFS) program that developed the technology which will be the basis for the restructuring of the National Weather Service. The PROFS program has demonstrated a 50 percent increase in skill scores for short range severe weather forecasts over conventional technology and is being used to provide new understanding of severe weather events. The program is being expanded to provide real-time integrated data sets for a variety of ocean and atmospheric research and operational programs. Under Dr. Beran's leadership during the first phase of the PROFS program, a management team composed of senior NOAA line managers ensured that the goals of the PROFS program were attained, and accomplished all major objectives within time and budget constraints. The results of the first phase of the PROFS program are the most significant advance in improving short range, site-specific, severe weather forecasting in the last decade.

Clyde C. Goad

*Chief, Gravity, Astronomy, and Space
Geodesy Branch
National Ocean Service
National Oceanic and Atmospheric
Administration*

Dr. Goad is recognized for his outstanding accomplishments in the field of geodetic science while serving as Project Manager for the Global Positioning System (GPS) Project which was started in 1981. The purpose of the GPS Project is to develop, for NOAA applications, precise positioning technology based on GPS satellites, and to transfer this technology to the civilian sector. This is far superior to the ground-based techniques in terms of economy and accuracy. Developing new geodetic technology and providing innovative leadership were essential to the success of the project. Benefits which will accrue from this new positioning methodology include both fundamental scientific advances in knowledge of the earth's structure and much greater efficiency in surveys for engineering and other purposes.



Samuel G. H. Philander

*Oceanographer
Environmental Research Laboratories
National Oceanic and Atmospheric
Administration*

Dr. Philander is an Oceanographer at the Geophysical Fluid Dynamics Laboratory. His pioneering research is documented in extensive publications on numerical modeling and on theoretical aspects of large-scale interactions between the tropical ocean and the atmosphere. The breakthrough of his ocean model in reproducing observed features of tropical sea surface temperature anomaly patterns has provided considerable insight and understanding of the El Nino-Southern oscillation phenomenon. His model is being transferred to the NOAA National Meteorological Center for further use as a practical forecast and analysis tool. Dr. Philander has also played an exceptionally active leadership role in organizing oceanic field studies. He is chairman and an active member of various steering committees and international panels. Dr. Philander demonstrated outstanding leadership of NOAA's very successful Equatorial Pacific Ocean Circulation Studies program which gathered a series of oceanographic measurements that provided a magnificent data set for study of the 1982-83 El Nino event.

Francis D. DeGeorge

*Deputy Inspector General
Office of the Inspector General*

Mr. DeGeorge, through his outstanding and innovative leadership, has made highly significant improvements in the use of OIG resources. Most recently, Mr. DeGeorge recommended a new auditing approach which is designed to audit recipients of Departmental program funds before, rather than after, they have received all the funds awarded. This approach is significantly more cost-effective for the OIG and the Department since it permits the identification of serious problems in a recipient's performance and compliance with the terms of the awarding instrument before all funds have been disbursed to the recipient. This is beneficial to the Department because serious grant administration problems are surfaced to program managers before all funds are spent by recipients, which enables program managers to take actions to protect Departmental funds. To date, \$2.8 million have been saved under this approach and an additional \$15 million are in the audit resolution process.



Hugh L. Brennan

*Director for Procurement and
Administrative Services
Office of the Secretary*

Mr. Brennan has distinguished himself by his leadership and ability in the fields of organization planning and management improvement. Since 1981 he has headed projects on reduction of overhead, administrative consolidation, and cost reduction, which together resulted in Department-wide savings of \$30 million. As Director for Procurement and Administrative Services, he has completely reoriented the Department's procurement and administrative support operations, installed modern automated information and control systems, established unified policies, and provided significantly better service to program operations and the field. His contributions to the Department and the Government have included the conduct of a Government-wide study of consulting services for the Deputy Secretary and the Cabinet Council on Management and Administration, organizational planning for the President's energy and international trade reorganization proposals, and implementing a major new Economic Affairs organization in the Department. He directed the transfer of the Maritime Administration to the Department of Transportation and was responsible for the organization and administrative aspects of the international trade reorganization under Reorganization Plan 3 of 1979.



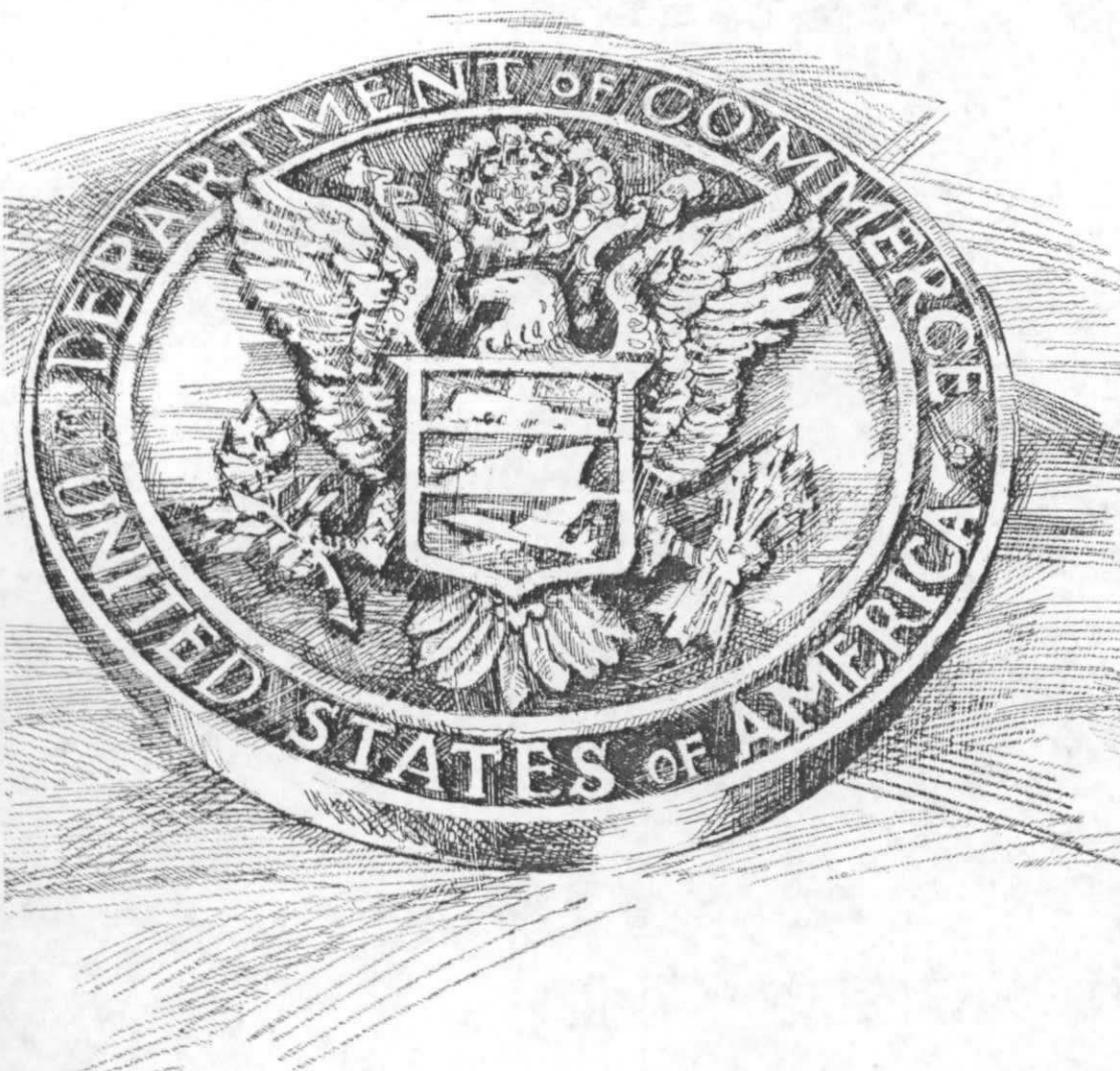
Joan Earyes

*Training and Program Analysis Specialist
U.S. Patent and Trademark Office*

Ms. Earyes is recognized for her leadership role in planning and implementing major improvements in the training of patent examiners. Ms. Earyes demonstrated extremely high professionalism and administrative ability in coordinating a major revision of the patent examiner training program. She played a major role in the patent pendency reduction program ("Plan 18/87") by overseeing the training of over 800 new patent examiners over a four-year period. She initiated teaching method courses for lecturers and instructors in the Patent Academy to ensure timely delivery of the newly developed curriculum and initiated a new course for supervisors. She performed all these improvements while continuing to improve the delivery of technical and legal training for experienced examiners and performed her other regular duties as Training Manager for the Patent Examination and Documentation areas.

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.



Don L. Adams

*Chief, Data Preparation Division
Bureau of the Census*

Mr. Adams has shown outstanding managerial and leadership abilities and has made significant contributions to the Department as Chief of the Data Preparation Division. Under his direction, substantial progress has been made in the automation of the Data Preparation Division operations. His innovative management style has enabled him to make cost-effective adjustments in times of fiscal restraint, while maintaining the highest levels of productivity, quality, and integrity of Census products.

Robert O. Bartram

*Assistant Director for International
Programs
Bureau of the Census*

Mr. Bartram is recognized for his outstanding leadership in the conceptualization and creation of the Census Bureau's Spanish Language Statistical Training Institute, Professional Skills Development Program, and International Data Base, and for major advances in the coordination of technical and fiscal assistance to developing nations in preparation for the 1990 census.

Jean C. Crotty

*Chief, Real Property and Services Section
Bureau of the Census*

Ms. Crotty is recognized for her significant contributions as Chief of the Real Property and Services Section. This Section is responsible for the acquisition and facilities maintenance of 600,000 square feet of Census-occupied space at agency headquarters in Suitland and over 2,550,000 square feet of space located throughout the country. Largely because of Ms. Crotty's untiring efforts, the Census Bureau has upgraded its space, including the procurement of additional office sites to handle the 1990 census.

Gaylord E. Worden

*Chief, Industry Division
Bureau of the Census*

Mr. Worden has consistently provided outstanding leadership in improving the Census Bureau's program of industrial statistics. Under his direction, current programs have been thoroughly reassessed, and substantial changes to improve coverage and usefulness have been implemented. He has been particularly effective in responding to emerging industrial data needs, resourceful in finding ways to accomplish program improvements within existing budgetary limits, and resolute in providing more timely data products. By his actions, Mr. Worden has demonstrated management skills of the highest order and has enhanced the stature of the Census Bureau and the Department.

Carl E. Cox

*Director, Office of Economic Conditions
Office of the Under Secretary for
Economic Affairs*

Mr. Cox is recognized for his outstanding contributions in expanding and improving economic analysis of current developments and for initiating a policy-oriented, forecasting capability in the Department. These contributions have assisted senior officials in enlarging the Department's role as a key economic agency and in improving the clarity, timeliness, and quality of economic analysis that is made available to the press and public. His analyses of monthly and quarterly data, notable for putting individual pieces of economic information into a broader perspective, were instrumental in maintaining the Department's exceptional reputation for integrity in economic reporting.

John C. Williams

*Director, Office of Productivity,
Technology, and Innovation
Office of the Under Secretary for
Economic Affairs*

Dr. Williams has made major contributions to private sector industrial innovation and the long-term competitiveness of the United States. Under his management, a new form of private sector financing of innovation has blossomed, a highly successful state-assistance project has been implemented, the application of the Nation's antitrust laws has been liberalized for R & D, and major advances have been made in private sector commercialization of federally-funded R & D.

Brian B. Whalen

*Director, Management and Administration
Directorate
Economic Development Administration*

Mr. Whalen has made significant contributions as the Director of Management and Administration by improving the effectiveness of agency operations and enhancing the Administration's objectives of providing strong program leadership and assuring control of public funds through improved financial systems for cash and debt management. He has also directed the effective administration of all support systems, including improved office automation and the use of minicomputers.

Marilyn D. Williams

*Economic Development Representative
Economic Development Administration*

Ms. Williams has served the Economic Development Administration with distinction in a variety of challenging positions over the past ten years. As a community planner, economic adjustment specialist, environmentalist, and currently as the Economic Development Representative for Southern California, she has set consistently high standards of excellence. Her creative work on developing, reviewing

and managing complex projects has brought an unusually high level of benefits to the economically distressed areas which she serves.

Thomas Z. Corless

*Supervisory Commodity Industry
Specialist
International Trade Administration*

Mr. Corless, Office of Special Industrial Machinery, is recognized for his efforts to preserve access to domestic and international markets for U.S. manufacturers of videotex equipment. In October 1984, the International Telegraph and Telephone Consultative Committee, and the International Telecommunication Union (a U.N. treaty organization), approved an international videotex interworking standard designed and developed under Mr. Corless' guidance. This standard guarantees equal treatment, without economic harm, to any videotex system and ensures publication in a common reference manual of the U.S., Canadian, Japanese, and European standards.

Mary Frances Costantino

*Personnel Officer
U.S. and Foreign Commercial Service
International Trade Administration*

As Director of the Office of Foreign Service Personnel, Ms. Costantino has demonstrated outstanding leadership in the administration of personnel programs relating to the overseas element of the U.S. and Foreign Commercial Service. Her highly creative managerial contributions have played a key role in the successful establishment of a responsive and efficient personnel system that supports the work of commercial staffs at some 125 U.S. Foreign Service posts in 65 countries. Her special accomplishments include direction of special recruitment programs, establishing a junior officer career program, setting up a course for mid-level commercial officers, and, most notably, carrying out a much praised position classification standards project covering the 500 Foreign Service National positions at 125 Foreign Commercial Service posts overseas.

John E. McPhee

*Director, Office of Computers and
Business Equipment
International Trade Administration*

Mr. McPhee has, for more than a decade, provided analyses of major issues and trends in the economically vital computer and business equipment industries. He has raised the level of understanding and stimulated substantive discussion of the issues between Government and private sector decision makers. His work has resulted in the formulation of policies in both the domestic and international arenas. Mr. McPhee has made a valuable contribution to the Department's knowledge and understanding of those issues affecting industries in the field of international trade.

Waneta E. Murphy

*Financial Analyst
International Trade Administration*

Mrs. Murphy's exceptional skill and performance as a loan officer have been directly responsible for preventing a loss of \$1.75 million to the Government. As a result of her efforts and for the first time ever, the International Trade Administration will recover all of the money guaranteed on a now bankrupt Trade Adjustment Assistance loan. In addition, Mrs. Murphy was able to prevent the liquidation proceeds from being released to other secured creditors. Mrs. Murphy has inspired others to monitor carefully the public's dollar.

Thomas A. Gary

*Budget Officer
National Bureau of Standards*

As Budget Officer for the National Bureau of Standards, Mr. Gary has shown outstanding leadership in planning and monitoring the use of public resources. He is cited for initiating an excellent budget planning and execution process that identifies the need for and use of a systematic program of maintaining and replacing the major components of the NBS physical plant in Gaithersburg, Maryland and Boulder, Colorado. Mr. Gary is also recognized for justifying increases to the Bureau's budget to cover the additional cost of services and for the inflation losses in the Working Capital Fund. In addition, he has developed a highly competent and productive staff.

Kenneth G.W. Inn

*Research Chemist
National Measurement Laboratory
National Bureau of Standards*

Dr. Inn has been primarily responsible for the production and certification of a series of natural-matrix radioactivity Standard Reference Materials that are now in use worldwide. His energetic pursuit of unique methods for securing, sterilizing, diluting, and homogenizing massive amounts of naturally-contaminated soils, river and ocean sediments, and human lung-and-liver tissue provided the necessary materials. He provided key leadership in the challenging effort to develop chemical separation procedures for many radionuclides and to evaluate their activity in collaboration with the country's premier low-level laboratories. These studies revealed hitherto unsuspected difficulties in widely-used radioanalytical procedures for environmental samples. Through Dr. Inn's leadership of collaborative efforts, important difficulties of this type have been corrected.

Willie E. May

*Chief, Organic Analytical Research
Division
National Measurement Laboratory
National Bureau of Standards*

Dr. May is recognized for his contributions to advancing organic analytical chemical measurement science. These contributions include major advances in high performance liquid chromatography for the separation and quantitation of trace organic compounds in complex natural samples, transfer of this measurement technology to the scientific user community, and development of an educational program for minority college students and faculty on state-of-the-art instrumental methods for chemical analysis.

Philip N. Nanzetta

*Mathematician
Center for Manufacturing Engineering
National Bureau of Standards*

Dr. Nanzetta is recognized for his outstanding leadership and technical skill in directing implementation of the NBS Automated Manufacturing Research Facility (AMRF). Responsible for coordinating over 40 research and support groups inside and outside NBS to achieve an operational AMRF, Dr. Nanzetta has succeeded in doing so through precise planning and oversight of the development of the facility which has brought considerable public attention and praise to the Department. His successful implementation of several innovative techniques for technical project direction and coordination have to a great degree made achievement of NBS' research form of an automated "factory of the future" possible.

Alan S. Pine

*Research Physicist
National Measurement Laboratory
National Bureau of Standards*

Dr. Pine is cited for his outstanding contributions to high resolution molecular spectroscopy; in particular, the infrared spectroscopy of weakly bonded systems. Dr. Pine achieved a technological breakthrough in spectroscopic instrumentation when he designed and built the first continuously tunable infrared difference frequency laser spectrometer. It is singularly capable of ultra-precise line shape and intensity measurements. With it, Dr. Pine recorded the first fully resolved rotation-vibration spectra of hydrogen-bonded and van der Waals dimer complexes. This work has attracted worldwide recognition and has helped establish NBS as one of the leading groups in the field. It has stimulated new experimental and theoretical research on the structure and dynamics of this important class of molecules.

Tawfik M. Raby

*Supervisory Nuclear Engineer
Center for Materials Science
National Bureau of Standards*

Mr. Raby is recognized for his skill and leadership in doubling the power of the NBS reactor from 10 MW to 20 MW. He skillfully guided NBS through a four-year licensing process and extensive upgrading of reactor systems. The NBS reactor is already a national center for the application of neutron methods to many areas of research. It is used by 250 scientists and engineers from more than 60 government and private sector organizations. The increased capabilities of the reactor will make possible major advances in research contributing to the development of advanced materials and new nondestructive evaluation methods. Mr. Raby's success in doubling the power of the NBS reactor is a major contribution to the Department and to the technological capabilities of the United States.

Stanley D. Rasberry

*Chief, Office of Standard Reference
Materials
National Measurement Laboratory
National Bureau of Standards*

Mr. Rasberry has made outstanding technical and management contributions to the NBS Standard Reference Materials (SRM) Program. Mr. Rasberry has been instrumental in developing and implementing several automated management and customer service systems that have resulted in greatly increased program productivity and effectiveness. Under his leadership, the SRM program has been restored to a sound financial condition, greatly improved customer service, and significantly expanded its customer base. Mr. Rasberry has also made substantial contributions to the development of x-ray fluorescence spectroscopy and its application to the certification of over 50 different SRM's.

Robert J. Santoro

*Physicist
National Engineering Laboratory
National Bureau of Standards*

Dr. Santoro is recognized for his outstanding contributions to science and technology. His research on high-temperature, chemically-reacting flows of particle phenomena led to a breakthrough in understanding particle formation phenomena. As a result, he made the use of conventional and alternative fuels in industry more efficient while reducing environmental impact. Using laser scattering/extinction and laser velocimetry techniques, he produced detailed measurements on particle formation, growth, and oxidation in diffusion flames. His data are accepted by the scientific community as a benchmark for validating numerical models. His experimental apparatus and techniques are accepted by industry and national laboratories as a standard method for studying particle formation processes.

T. Michael Souders

Physicist

James A. Lechner

*Mathematical Statistician
National Bureau of Standards*

Messrs. Souders and Lechner are recognized for their outstanding success in solving a heretofore intractable problem, that of developing a theoretical basis for describing complex electrical components, circuits, and subassemblies; for modeling their behavior; and for analyzing their aggregate sensitivities. They demonstrated that certain orthogonal functions could be used to optimize the selection of input signals and other test conditions which cause the worst errors for testing and calibration purposes. Their new optimal calibration strategy for linear time invariant (LTI) and switched resistance networks has been used to calibrate the frequency response of a precision wide-band analyzer. As a result, only 15 percent as many frequency test points were required as would have been used with conventional methods. These findings will save thousands of hours of expensive testing and troubleshooting over the lifetime of a large LTI system.

Albert D. Tholen

*Chief, Office of Weights and Measures
National Bureau of Standards*

Mr. Tholen is recognized for his initiative and creativity in developing and implementing national programs in type evaluation and training both to effect uniformity in measurement and to enhance the marketplace acceptance of commercial instrumentation. His achievements in these programs have resulted in a strengthening of NBS programs in the basic measures used in trade. These particular activities have assured the effective transfer of the measurement technology developed at NBS to both industrial and regulatory metrologists.

Office of the Comptroller

Office of Personnel

National Bureau of Standards

The employees of the Office of the Comptroller and of the Personnel Division, National Bureau of Standards, have made an outstanding contribution to the Department through their efforts on the USDA payroll/personnel conversion. Their careful preparations, hard work, and initiative were major factors in the project's success. Since NBS was the first bureau to convert to the new system, their efforts were undertaken without precedent, but they tackled all problems with determination, enthusiasm, and creativity. Their success has paved the way for future migrations to the system, and sets a standard for others to follow.

William P. Bishop

Deputy Assistant Administrator for Satellites

National Environmental Satellite, Data, and Information Service

National Oceanic and Atmospheric Administration

Dr. Bishop is recognized for his contributions to the Landsat commercialization program during the period June 1983-June 1985. Due to his efforts, the Department has reached a position where the American public is provided the opportunity to continue, in the private sector, the Landsat program begun in NASA over 12 years ago. This ground-breaking effort has demonstrated for the first time the feasibility of transferring remote sensing operations from Government to the private sector, while successfully addressing sensitive issues of public and international access, licensing procedures, and security concerns. Dr. Bishop was instrumental in developing the Land Remote Sensing Commercialization Act which was passed by Congress and signed into law by the President on July 19, 1984, and led the successful negotiations with industry that will provide the United States with two new Landsat satellites.

Carmen J. Blondin

*Deputy Assistant Administrator for Fisheries Resource Management
National Marine Fisheries Service
National Oceanic and Atmospheric Administration*

Mr. Blondin has made significant contributions to the effective operation of the Department by administering operational activities involving about 900 employees and \$75 million. He developed a national enforcement team to administer U.S. bilateral and multilateral international fishing agreements and to represent U.S. interests in international organizations. Under his leadership, this team successfully conducted numerous bilateral and multilateral negotiations. He has ensured that foreign fishery allocations will help develop the U.S. fishing industry. His activities have fostered the growth of U.S. fisheries.

Charles D. Little James M. Lowe

Lead Forecasters

National Weather Service

National Oceanic and Atmospheric Administration

Messrs. Little and Lowe are recognized for their outstanding initiative in radar echo interpretation, and for their decisive, early actions in issuing tornado warnings to the people of South Carolina during the tornado outbreak on March 28, 1984. As a result of this outstanding team effort, many lives were saved. Killer tornadoes and numerous damaging thunderstorms swept through South Carolina in the most severe weather outbreak in 40 years. Messrs. Little and Lowe provided detailed, continuous surveillance and highly accurate warnings which allowed area residents to take prompt lifesaving action in preparing for these destructive storms. Although the storms were developing increasingly fast and moving very rapidly, the population received a warning of the first tornado 15 minutes before it actually touched down.

H. Geoffrey Moser
William J. Richards
Michael P. Fahay
Arthur W. Kendall

Fishery Biologists
National Marine Fisheries Service
National Oceanic and Atmospheric
Administration

Drs. Moser, Richards, and Kendall and Mr. Fahay are honored for their outstanding contributions as the distinguished editors of the 760-page volume, "Ontogeny and Systematics of Fishes," recognized by the scientific community as a superlative contribution to the scientific literature. The remarkable accomplishment of the editors stems from their successful orchestration of the preparation, editing, and publication of 83 chapters by 74 authors. As editors, they made decisions to include papers of the highest caliber and creativity which best reflected their vision of how ontogeny and systematics could serve the goals of a mission-oriented organization such as the National Marine Fisheries Service and also more basic investigations of the phylogenetic relationships of fishes. The publication of this volume is a rare and unusual achievement of which the Department and the field of fisheries science can justifiably be proud.

Charles B. Samuels

Meteorological Technician
National Weather Service
National Oceanic and Atmospheric
Administration

Mr. Samuels is cited for his contributions to the National Weather Service's Data Acquisition Program. His singular efforts led to the development and installation of the Microcomputer-Aided Paperless Surface Observations Program in Alaska and Hawaii. This program automates the quality control process and the computation and transmission of observations, virtually eliminating the need for the inefficient and cumbersome manual record checking procedures used by observers throughout the National Weather Service. Mr. Samuels' regional program

serves as the basis for the national implementation of a similar program which will improve significantly the quality of observational data while improving the efficiency of scarce personnel resources throughout the United States.

Lucille R. Williams

Supervisory Order Processing Specialist
National Ocean Service
National Oceanic and Atmospheric
Administration

Ms. Williams is cited for her exceptional leadership of the Order Processing Section, National Ocean Service. Her outstanding leadership ability ensures the timely processing of orders for NOS nautical and aeronautical charting products. Under her direction, the 34 employees of the Section provide exceptional service to their customers. Ms. Williams' managerial expertise has enabled NOS to meet an expanding workload in this multi-million dollar operation with limited resources.

Charles L. Hutchison

Communications Specialist

Roger W. Reinke

Telecommunications Policy Specialist
National Telecommunications and
Information Administration

Messrs. Hutchison and Reinke have provided significant contributions to the development of a comprehensive national plan for the use of the radio frequency spectrum in war-emergency situations. The ability to secure the cooperation and support of 20 separate government agencies, representing both military and civilian points of view, attests to their outstanding managerial skills. Through professional leadership, perseverance, and technical knowledge, they have made meritorious contributions to the national security and emergency preparedness of the United States.

Helena Mitchell

*Manager, Minority Telecommunications
Development
National Telecommunications and
Information Administration*

Ms. Mitchell is recognized for her outstanding leadership in developing innovative program initiatives to increase minority participation in all phases of telecommunications development. These initiatives have increased awareness of telecommunications opportunities, increased technical and financial assistance, provided valuable technical engineering assistance, and increased the number of minority-owned or controlled commercial and non-commercial telecommunications facilities. As a result, there have been strong public/private sector coordination, establishment of a minority telecommunications network, advancement of Departmental goals, and recognized national contributions to increasing the involvement of minority entrepreneurs and historically black colleges in telecommunications ownership.

Arthur D. Spaulding

Supervisory Mathematician

James S. Washburn

*Computer Scientist
National Telecommunications and
Information Administration*

Dr. Spaulding and Mr. Washburn are cited for their outstanding technical contributions to improve the representation of atmospheric radio noise on a global basis. These contributions have been of fundamental importance in understanding the influence of atmospheric radio noise on limiting the performance of telecommunications systems. The results have formed the basis of models that are currently being used to determine the performance of telecommunication systems operating at frequencies between 500 kHz and 50 MHz. These models provide the methods needed to determine the performance of telecommunication systems in a cost-effective, realistic manner. Specific applications for use include telecom-

munication systems improvements in such areas as air and sea navigation, weather prediction, and strategic and tactical defense communications, among other areas.

Frank V. Caesar

*Director, Office of Patent and Trademark
Services
U.S. Patent and Trademark Office*

Mr. Caesar is recognized for his consistently outstanding contributions to the delivery of services to program areas and the public. Through his exceptional initiative and technical competence, he designed, implemented, and improved automated systems which led to cost savings, more effective management, and improved operational efficiency. In the public service area, Mr. Caesar's exceptional leadership led to substantial reductions in service times and improvements in the quality and delivery of services. He was instrumental in achieving the first major milestone of 18-month patent pendency by reducing pre-examination processing time from 70 to 30 days.

Kenneth L. Cage

*Patent Examining Group Director
U.S. Patent and Trademark Office*

Mr. Cage is recognized for his outstanding leadership and managerial expertise as the Director of the Special Laws Administration Group within the Patent and Trademark Office. He has initiated significant revisions in the regulations for foreign export and filing of patent applications which have resulted in sizable cost efficiencies. Mr. Cage has also instituted significant improvements in preserving the integrity of the classified national security patent applications, which are examined in his group.

Charles J. Condro
Joseph H. Webb

Supervisory Examining Attorneys
U.S. Patent and Trademark Office

Messrs. Condro and Webb are recognized for their contributions to Patent and Trademark Office goals and the trademark community at large in management and supervision of the first trademark examining law office to achieve the Secretarial "3/13" objective, thereby producing record levels of responsiveness and currency in initial examination of trademark applications and in final disposition by registration or abandonment.

Edward J. Earls

Director, Mechanical Classification Group
U.S. Patent and Trademark Office

Two of the primary missions of the U.S. Patent and Trademark Office are the proper storage and retrieval of information and the dissemination of that information to the examining corps and the public. Mr. Earls has done an outstanding job in both areas. Aside from the noteworthy contributions Mr. Earls has made to the classification system, he has been involved in many facets of national and international patent classification, and has authored numerous booklets used by the patent examining academy, the classification academy, and the patent depository libraries throughout the United States.

Stephen G. Kunin

Patent Examining Group Director
U.S. Patent and Trademark Office

Mr. Kunin is recognized for his outstanding technical and administrative leadership in the management of a major program within the Patent and Trademark Office—the examination and disposal of patent applications. As the Director of a patent examining group, his effectiveness as a manager contributes significantly to the achievement of a prominent Departmental goal, reducing patent application pendency. Mr. Kunin's skill in motivating and directing his subordinates has increased group productivity beyond established goals. Mr. Kunin's wealth of technical knowledge is also demonstrated in his significant role in the Patent Academy revision process. He made a substantial contribution to the overall improvement of the Academy and is recognized for the leadership he exerted in the redesign of the Patent Examiner Initial Training phase.

Gareth D. Shaw

Supervisory Patent Examiner
U.S. Patent and Trademark Office

Mr. Shaw has demonstrated outstanding performance and leadership as a Supervisory Patent Examiner. His subordinates have achieved a high level of quality performance and at the same time have an excellent production record. The production of his Art Unit has averaged about 110 percent of expectancy for the past six years. He has also shown initiative and resourcefulness in training new examiners, in developing and maintaining mechanized search systems for examiner use, and for assisting management officials in formulating office policy with respect to computer programs. The combination of high-level performance by his staff, improved search capability through use of automation, and significant contributions to Patent and Trademark Office policy, all have resulted in advancement of Departmental goals.

EXTERNAL AWARD RECIPIENT

Women in Science and Engineering Award

Dr. Johanna M. H. L. Sengers

Physicist

*National Engineering Laboratory
National Bureau of Standards*

Dr. Sengers was selected by the Inter-agency Committee on Women in Science and Engineering (WISE) for her outstanding contributions to the chemistry and physics of liquids in the field of critical phenomena and for being the "most outstanding woman research scientist in the Federal government." Dr. Sengers is a pioneer in the application of fluids to practical problems in chemical, physical, and engineering processes.



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