U.S. DEPARTMENT
OF COMMERCE
1984



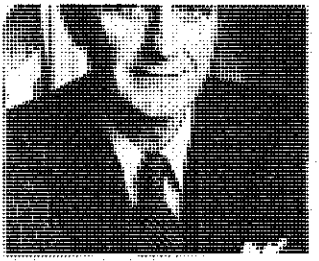
36th ANNUAL HONOR AWARDS

Herbert C. Hoover Building
Fourteenth Street and Constitution Avenue, N.W.

November 13, 1984
11:00 a.m.

Music	United States Air Force Band
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	Kay Bulow Assistant Secretary for Administration
Presentation of Silver Medals	Secretary Baldridge assisted by Departmental officials
Music Selection	Karen Wiggs-Collins
Presentation of Gold Medals	Secretary Baldrige assisted by Departmental officials
Closing Remarks	Assistant Secretary Kay Bulow





MESSAGE FROM THE SECRETARY

What does individual excellence do for an institution and for society?

Certainly it brings achievement in a particular field of endeavor. It moves that institution and society a step closer to their goals.

But that is not the chief value of excellence. Rather, its highest purpose is to raise the standard of performance, to set an example for others to shoot for, and to surpass. It creates a new yardstick by which devotion to a task is measured; it changes forever our estimate of the human potential.

This is what the women and men we honor here today have contributed to the Department of Commerce and our country. But medals and certificates merely provide recognition of their outstanding achievements. The only way we can truly honor them is to follow their example.

I want to thank these dedicated Commerce people for their leadership in providing inspiration for us all, and wish them every success in the future.

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.







Robert Ortner

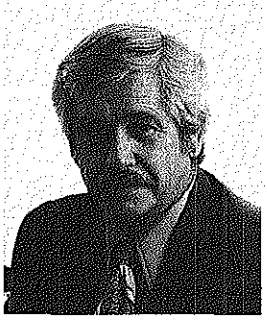
Chief Economist
Office of the Under Secretary for Economic Affairs

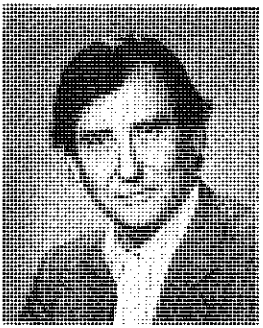
Dr. Ortner is recognized for substantially improving the Department's economic policy analysis and expanding and upgrading communication of economic data to the press and public. He led the development of a policy-sensitive forecasting capability with a predictive ability superior to other Government models during the most recent business cycle. As a result, the Department has been made a member of the Executive Branch's small forecasting team. The work of this team forms the foundation for the Budget and the Economic Report of the President. The economic policy analyses prepared under the direction of Dr. Ortner have been instrumental in the expanded role of the Department in Cabinet deliberations. He has enhanced the Department's reputation and credibility by his informed and candid commentary on economic data released by Commerce. His ability to interpret data and place monthly statistics in a broader context, and to do so in a manner understandable to noneconomists, has significantly improved economic reporting in the media.

Robert B. Ellert

Assistant General Counsel for Economic Affairs & Regulation
Office of the General Counsel
Office of the Secretary

Mr. Ellert has consistently made major contributions of national importance to the economic affairs and regulatory responsibilities of the Department and the Administration through his outstanding leadership and exceptional legal abilities. He has drafted legislative proposals to update antitrust laws to help U.S. industries compete more effectively in world markets; contributed to the President's patent policy memorandum of February 18, 1983; and played a major part in drafting the Research and Development Limited Partnership Guidelines. Mr. Ellert's contributions and accomplishments are in the highest traditions of his profession and the Department.





Dale M. Gough

Project Manager
Office of the Secretary

Mr. Gough is recognized for his outstanding work in dramatically changing the way in which administrative support is provided to Commerce employees in the field. He served as director of the Department's pilot Regional Administrative Support Center (RASC) in Seattle and guided it through its difficult opening months. Based on its success, similar Centers were established elsewhere and Mr. Gough managed the task of implementing RASC's in Boulder, Colorado; Kansas City, Missouri; and Norfolk, Virginia. These Centers were established under extremely short deadlines and are now delivering high-quality, responsive support services. He also led a major restructuring of the National Oceanic and Atmospheric Administration's (NOAA) headquarters' administration that produced a more effective, streamlined organization. He has helped both NOAA and the Office of the Secretary and contributed to the Department's efforts to become the best managed agency in the Federal Government.

Michael Danos

Physicist (Nuclear)
National Measurement Laboratory
National Bureau of Standards

Dr. Danos is recognized for the publication of a book, "Methods in Relativistic Nuclear Physics". Dr. Danos and his French co-authors have achieved a monumental task of treating nuclear phenomena in a fully relativistic theory. Nucleons and mesons are described in terms of their constituent particles, i.e. partons, which necessitated a detailed discussion of the center-of-mass problem. This unique book will have a tremendous impact because it provides for the first time the mathematical tools needed to solve specific problems in a completely relativistic consistent manner to a known predetermined accuracy. In addition to this book, Dr. Danos has made notable contributions to nuclear physics, with over 100 publications covering such areas as Cerenkov radiation, nuclear models, photonuclear cross sections, quantum field theory, and x-ray imaging theory. His continuous, creative productivity in numerous fields, and the broad knowledge and understanding of physics as a whole have made Dr. Danos one of the outstanding scientists of the National Bureau of Standards.





James J. Filliben

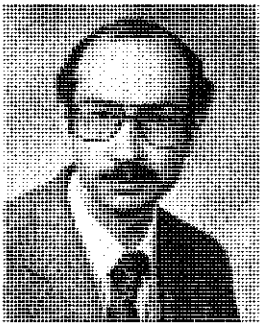
Mathematical Statistician
National Engineering Laboratory
National Bureau of Standards

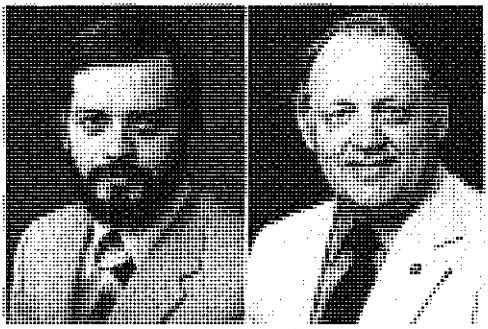
Dr. Filliben, distinguished author and speaker, is recognized for his unique applications of statistical methods to physical science and engineering. Using his broad experience in statistical consulting, he conceived, designed, and developed an easy-to-use statistical computing system entitled DATAPLOT. DATAPLOT is a high-level interactive language system for displaying on the computer, graphics, model-fitting, data analysis, and mathematics. His significant contribution to computing systems has increased the productivity of scientists and engineers searching for statistical validation of complex physical phenomena. Tapes of his DATAPLOT, distributed through the National Technical Information Service, are being used in more than 120 institutions in the United States and in over 30 countries abroad. These institutions include G.E., RCA, DuPont, Boeing, Eastman Kodak, U.S. Air Force, Lawrence Livermore Laboratory, University of Athabasca (Canada), and the National Academy of Sciences who is using DATAPLOT, jointly with Japan, to analyze survival data from Hiroshima.

Peter L. M. Heydemann

Associate Director for Programs, Budget, and Finance
National Bureau of Standards

Dr. Heydemann has excelled in both science and administration and is recognized as a leader of scientific research. Formerly, as Director of the Center for Chemical Physics, he reorganized the Center to focus its activities on economically important areas of science and technology, such as the chemistry of aqueous solutions and biochemistry. As an administrator, he has shown a flair for rebuilding administrative systems into more cohesive and effective management tools. He developed the Bureau's Strategic Planning Objective system that linked Departmental goals and objectives, employee performance plans, and the objectives of the Bureau's programs. He formulated a model of economic activities now being used by the Department to demonstrate Departmental contributions to economic recovery and improvement of our international market position. He has strengthened and improved many other aspects of administration and is now fully automating the Bureau's administrative and financial systems.





Stephen R. Leone

Physicist
National Measurement Laboratory
National Bureau of Standards

Dr. Leone has established himself as one of the most outstanding young scientists in the field of chemical dynamics. He has demonstrated unusual creativity in the development of major new experimental approaches to investigations of chain-reaction kinetics, ion-molecule reactions, and photofragmentation processes. Dr. Leone developed a general technique for the quantitative study of chain reactions and related combustion processes that have perplexed chemists for most of this century. In another area, Dr. Leone developed a sensitive technique for detecting weak infrared chemiluminescence from ion-molecule reactions. This major new technique opened for study the ionic counterparts of experiments on neutral species and provided a wealth of valuable data on reactive collisions. Dr. Leone also pioneered the use of infrared fluorescence to study laser photofragmentation processes. His work in this area provided a powerful method for studying the dynamics of gas phase free radicals. These examples of Dr. Leone's achievements indicate the quality and impact of his research which has provided new insight into the physical processes involved in reactive encounters.

Steven W. Clark

Electronics Technician

James R. Smith

Weather Service and Radar Specialist

National Weather Service
National Oceanic and Atmospheric Administration

Messrs. Clark and Smith on June 8, 1983, at great personal risk, saved the life of a helicopter pilot. When they heard a crash outside their office building and rushed to the scene, they found a helicopter on its side, fuel gushing from a severed fuel line, power still on, and a pilot trapped inside. While Mr. Clark sprayed the area with the weather station fire extinguisher, Mr. Smith pulled the trapped, badly injured pilot from the wreckage. After carrying the pilot to safety, they called for help from the nearest town and began applying first aid to the injured man. This spontaneous heroic action saved the pilot's life. Performing under extreme duress, Messrs. Clark and Smith served their fellow man in the highest tradition of Government service.





Melvin W. Eklund

Supervisory Microbiologist
National Marine Fisheries Service
National Oceanic and Atmospheric Administration

Dr. Eklund's 22 years of outstanding botulism research have increased safety of fishery products, helped protect public health, and improved scientific knowledge of *Clostridium botulinum* (bacteria responsible for botulism) and fish diseases. His research team discovered new types of *Clostridium botulinum* and identified mechanisms controlling their toxin production, developed processes to increase the safety of smoked fishery products, and discovered liquid-smoke components that increase salt's inhibitory effects on *Clostridium botulinum.* This work has saved millions of dollars in the salmonid industry. The research team's accomplishments are respected worldwide and reflect positively on the National Marine Fisheries Service.

Ray E. Jensen

Regional Director
National Weather Service
National Oceanic and Atmospheric Administration

Dr. Jensen is recognized for outstanding leadership in administering the Southern Region's warning and preparedness programs, developing highly effective regional training programs, successfully incorporating technology into his operation, and making significant improvements in the design and management of regional data processing systems. Dr. Jensen has improved the Southern Region's capabilities for issuing timely, site-specific, and usable warnings for all of society; promoted more effective use of personnel and resources within his area; brought technological advances into operational use quickly, providing feedback on future developmental efforts; and used the latest data processing technology to save time and money. Dr. Jensen has managed a highly effective forecast and warning service and these accomplishments have brought distinction to the Department.



Richard A. Severtson

Senior Special Agent
National Marine Fisheries Service
National Oceanic and Atmospheric Administration

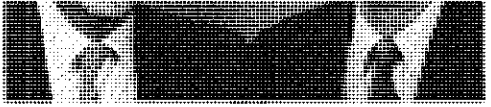
Agent Severtson contributed significantly to the protection of United States fishery resources and to the fullfillment of United States Indian treaty obligations by exposing an entrenched cadre of professional poachers who were actively engaged in the theft and sale of thousands of Columbia River salmon and steelhead. For years these thieves had successfully avoided local detection and prosecution through an insidious scheme which disguised their criminal activity as a legitimate treaty-protected tribal fishing right. During the critical stages of the investigation, Agent Severtson, at great personal risk, directed and actively participated in the collection of numerous recorded conversations with armed criminal suspects. He also covertly photographed and documented these same individuals actively engaged in criminal conduct. Discovery of his law enforcement activities at any time, would have resulted in a life threatening confrontation. In carrying out his assignment, Agent Severtson displayed uncommon courage and initiative which significantly benefited the Pacific salmon resource and the law enforcement mission of the Department of Commerce.

Charles K. Townsend

Director, Pacific Marine Center
National Ocean Service
National Oceanic and Atmospheric Administration

Rear Admiral Townsend is recognized for his outstanding contributions in coordinating national and international scientific programs and promoting the National Oceanic and Atmospheric Administration as a leader in the scientific community. He demonstrated effective management and leadership skills in establishing a management team-building concept at the marine center and by promoting interagency communication. He coordinated program requirements with operational and engineering capabilities of the west coast fleet to assure efficient and economical vessel performance. His initiative and dedication have made the Pacific Marine Center a well-managed organization and created an environment which promotes high employee morale and productivity.





Robert F. Burnett

Special Assistant to Assistant Commissioner
U.S. Patent and Trademark Office

Mr. Burnett is recognized for his leadership and major contributions in planning and managing the highly successful implementation of Public Laws 96-517 and 97-247 which provided for a new patent fee structure and other major changes in the U.S. patent laws. Under his direction substantial new procedures and provisions in regulations relating to U.S. patent practice were prepared and issued in an unusually short time period. He is also recognized for his exceptional supervisory ability in managing a group of examiners who process and oversee special examining programs usually involving sensitive legal issues concerning fraud and inequitable conduct by patent applicants. His expertise and practice, knowledge of patent laws, authorship ability, and excellent management of numerous changes in rules and procedures are widely recognized throughout the Nation.

Samuel S. Matthews

Director, Patent Examing Group

Michael J. Lynch

Supervisory Patent Examiner

U.S. Patent and Trademark Office

Messrs. Matthews and Lynch are recognized for their outstanding creativity in authorship and implementation of a complex staffing plan for the Patent Examing Corps. Their most significant accomplishment was developing a dynamic, computerized, organizational staffing plan to accommodate the technological assignments of approximately 800 engineers and scientists to be hired over a period of three years for the Corps. Their keen understanding of organizational priorities, coupled with their high energy, enthusiasm, and perseverance, yielded a plan which will serve for many years as the primary tool for determining hiring needs of patent examiners. This tool is presently in full use in the Patent and Trademark Office, where it also determines organizational sizes and structures, training needs, space, allocation, and equipment needs.



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.



John H. Berry

Chief, Agriculture Division
Bureau of the Census

Dr. Berry has demonstrated outstanding leadership, professional accomplishments, and managerial expertise in directing the collection and publication of the 1982 Census of Agriculture. His innovative publicity and data dissemination programs have improved respondent participation and expanded user awareness of the wealth of agriculture data available. At the same time, he set the modern-day record for timely release of census publications.

Gertrude M. Borbonus

Supervisory Occupational Health Nurse
Bureau of the Census

Ms. Borbonus has demonstrated outstanding performance in the field of occupational health. Through her dedication, leadership, and initiative, Ms. Borbonus greatly improved efficiency and effectiveness of the Census Bureau's health unit. She broadened the health services to include preventive care and psychological or emotional counseling, and organized a highly effective alcohol and drug abuse program. Ms. Borbonus has earned for herself and the Department the recognition, respect, and confidence of employees, other Federal agencies, and local communities.

John R. Coleman

Chief, Governments Division
Bureau of the Census

Mr. Coleman has been a leader in providing statistics on the public sector of the U.S. economy. His professional competence, untiring dedication, and consistent good judgment have been vital in continuing the outstanding success of the Census Bureau's work in this area. Mr. Coleman was highly effective in developing survey methodologies and procedures, and has directed the publication and dissemination of the results. He has represented the Bureau to State and local government legislators and officials, Congressional staff members, and Federal executives with a level of poise, cooperation, and technical ability that has consistently reflected credit on the Department of Commerce.

William F. Hill

Regional Director, New York
Bureau of the Census

Mr. Hill has consistently demonstrated superior managerial performance as Regional Director, New York Regional Office. He has responded with perseverance, creativity, and composure to perhaps the most difficult and challenging data collection problems in the Nation, while retaining data quality and administrative efficiency. He has been an outstanding administrator of the survey and outreach programs for which he has responsibility. Because of the excellence of his work and demeanor, he is a credit to the Census Bureau, enhancing its public image and providing valuable support to its fact-finding mission.

nating census and household survey findings. While carrying out his regular duties, Dr. Long has routinely written original analyses for professional journals, Government publications, reference books, and popular magazines. Among his more than 40 publications since joining the Bureau in 1970 is "The Slowing of Urbanization in the U.S.," the lead article in the July 1983 issue of *Scientific American*. It provided essentially cost-free and highly timely presentation of key 1980 census findings to a much wider and more diverse audience than would have been reached by a routine Government report.

John E. Reeder, Jr.

Regional Director, Dallas
Bureau of the Census

Mr. Reeder has made distinguished contributions to the success of the Census Bureau's data collection programs in his leadership of a regional census center and office. Demonstrating his ability to manage effectively, he has reduced costs while maintaining high program performance quality. He has met the challenges of the growing need for public contact in the regions, representing the Bureau in an exemplary manner. His dedication to duty and commitment to the Department's mission are evidenced throughout his work.

managerial skills on sample survey redesign. He planned, directed, and implemented extraordinary redesigns of the Census Bureau's seven major household surveys. As a result of these efforts, there will be substantial cost savings or cost avoidance in these survey activities for each of the next 10 years.

Thomas C. Walsh

Chief, Demographic Surveys Division
Bureau of the Census

Mr. Walsh has provided outstanding contributions to the Demographic Surveys Division, which is responsible for managing surveys on key socioeconomic indicators, such as employment and unemployment estimates, estimates of household expenditures, number and characteristics of persons in poverty, and criminal victimization rates. He has maintained and improved these surveys despite budget constraints and rising costs and imbued his staff with a heightened consciousness of quality and costs. He displayed excellent leadership skills in producing a myriad of census publications and user tapes in the late stages of the 1980 Decennial Census. Mr. Walsh has achieved the highest standards of professional excellence and contributed significantly to Federal statistical programs.

Kirk M. Wolter

Chief, Statistical Research Division
Bureau of the Census

Mr. Wolter has made outstanding contributions to the research program in statistical and survey methodology. His distinguished and creative authorship in sampling, variance estimation, and dual-system estimation is recognized worldwide, and has contributed to the greater efficiency and understanding of the use of statistical tools in surveys and censuses. His leadership has increased research in sampling, measuring errors, time series, geography, automation, and graphics. His performance as a key witness for the Government in a constitutionally important lawsuit about the validity of adjustment of the 1980 Census for an alleged undercount reflected credit on the Bureau of the Census.

Lansing R. Felker, Jr.

Director, Industrial Technology Partnerships Division
Office of Productivity, Technology and Innovation
Office of the Under Secretary for Economic Affairs

Mr. Felker has made a major contribution to America's industrial innovation and long-term industrial competitiveness. He has been responsible for the program's successes, which most notably reflect a dramatic increase in private investment from nontraditional sources to research and development. Under his leadership, research and development limited partnerships have developed into legitimate investment vehicles and expanded in volume and application. Private investment in research and development limited partnerships increased from an estimated $225 million in 1981 to an annual rate of approximately $1 billion in 1983 and 1984. Mr. Felker's outstanding program management and his effective communication with the private sector have been a prime cause of the increase in research and development funding.

Norman J. Latker

Director, Federal Technology Management Policy Division
Office of Productivity, Technology and Innovation
Office of the Under Secretary for Economic Affairs

Mr. Latker is recognized for his leadership in the effective management of inventions that result from over $40 billion of Federal research and development funding. These inventions are increasing new products, industries, jobs, and international competitiveness. Mr. Latker was one of the first to recognize that older policies were not working. He was instrumental in obtaining a statute clarifying the invention ownership rights of small businesses and nonprofit organizations. He then obtained a Presidential memorandum that makes contractor ownership of inventions an Administration policy. He developed additional legislation, which the Congress passed, to extend these ownership rights, and prepared a major Administration-supported proposal for increasing the flow of inventions from Federal laboratories.

David M. Glancy

Operations Research Analyst
Office of Strategic Resources
Office of the Under Secretary for Economic Affairs

Mr. Glancy has demonstrated great technical and coordinative skills in planning and directing a program of quality assessments of National Defense Stockpile materials. Through his diligence, initiative, and management skills, the program will be completed in far less time and money than was first thought to be required. The major improvement in the Stockpile planning process would not have been possible without Mr. Glancy's professional dedication and extraordinary contributions.

Dr. Mowry is recognized for major contributions promoting the transfer of Federal technology to the private sector. Under his leadership, the National Technical Information Service has granted over 100 royalty/bearing patent licenses since 1981. Licensees have pledged over $100 million in additional research and development and new plant investments. Since January 1983, Dr. Mowry has managed the Center for the Utilization of Federal Technology. The Center has developed and disseminated these special information products: the annual *Federal Technology Catalog,* the *Catalog of Government Patents,* and the *Directory of Federal Technology Resources.* In addition to managing these programs, Dr. Mowry has traveled to workshops and conferences across the country, promoting the transfer of Federal technology.

George E. Murray

Supervisory Financial Analyst
Economic Development Administration

Mr. Murray is recognized for his significant contributions as Acting Deputy Assistant Secretary for Finance to loan guarantee and debt collection programs of the Economic Development Administration. Under his leadership, the FY 84 loan guarantee program was launched successfully with a pipeline of projects now estimated at $45 to $50 million. Mr. Murray aggressively pursued collection of business loan debts resulting in significant savings to the Government. Debt collections for FY 84 are expected to reach an all-time high, in excess of $100 million.

...role in successfully centralizing administrative legal services in the Department. He showed outstanding leadership and provided effective advice in representing the Department on administrative and judicial litigation involving personnel actions. He devised successful mechanisms for centralizing the review of more than 550 annual financial disclosure reports filed by senior Department officials. His staff has given the Department one of the best records in defending personnel actions in the entire Government, and has enabled the Department to carry out its internal reorganizations despite legal challenges.

John S. Bunting

Supervisory Auditor
Office of the Inspector General

Mr. Bunting is recognized for his exemplary performance as manager of an extremely complex audit and for developing an effective report which will increase public safety during flash floods and thunderstorms. As manager of this audit, he mastered meteorological and hydrologic concepts, gained the cooperation of program managers in six Executive Departments, and completed the audit under tight deadlines at more than two dozen sites in eleven states and the Washington metropolitan area. Under Mr. Bunting's direction, the audit team's findings and recommendations were readily accepted by Federal agencies involved and the scientific community. His recommendations centering around improved efficiency of Federal lightening detection systems will result in significant economies as well as save numerous lives.

Homer L. Hughes

Supervisory Auditor
Office of the Inspector General

Through outstanding audit leadership, Mr. Hughes has made significant contributions to the Department's management improvement efforts. One example which demonstrates his exceptional management skills was a series of reviews of the Department's export expansion activities. Under Mr. Hughes direction, the audit team developed recommendations designed to focus limited resources in expanding export potential. The corrective actions adopted by the international trade staff have substantially strengthened the Department's efforts to aid business firms exporting for the first time or expanding export sales to new foreign markets.

John J. Da Ponte

Executive Secretary
Foreign Trade Zones Board
International Trade Administration

Mr. Da Ponte demonstrated outstanding skill and management by developing new and innovative procedures for the Foreign Trade Zone Board. The program regulations were simplified and strengthened, greatly reducing the burden on economic communities. This was praised by domestic and international agencies. With a significant increase in applications and limited resources, Mr. Da Ponte responded in a thorough and professional manner. The Department of Transportation lauded him for his initiative in researching and justifying use of zone procedures for shipyards, which retained thousands of U.S. jobs and strengthened economies of three major shipbuilding cities. His imaginative procedures to use FTZ's for manufacturing autos and other products created or retained 10,000 U.S. jobs. Mr. Da Ponte's conceptual judgment resulted in a phenomenal increase in zones.

Betty Neuhart

Regional Managing Director, Pacific Region
International Trade Administration

Mrs. Neuhart is recognized for successfully promoting U.S. exports through her outstanding management of the San Francisco District Office and Region IX of the U.S. and Foreign Commercial Service. She organized the first major U.S. conference on exporting services which was attended by 360 individuals. As a result of this successful exposition, the San Francisco Regional Office, under Mrs. Neuhart's direction, created a "how to" manual on exporting services. The Office also conceived and executed a plan for evaluating export potential of the region. This plan, later named "Strategic Planning Analysis", became a model for 46 district offices and has been adopted as a critical element by which all offices are evaluated.

Robert C. Reiley

Director, Nonferrous Division
International Trade Administration

Mr. Reiley has provided significant contributions to the accomplishment of the mission of Basic Industries. The Nonferrous Division, under his leadership, produced several studies which have been highly praised for their innovative approach to changes in strategic metal demand. One such study, "Market Trends and Forecasts for Strategic Metals" identified, for the first time, demand intensity trends by specific end use. Because of the important information presented in this study, it will serve as the basis for further analysis by the Departments of Defense and Interior.

International Trade Administration

The staff of the U.S. and Foreign Commercial Service in China has significantly advanced commercial relations between the United States and China and provided inestimable benefits to the U.S. business community. They have negotiated with the Ministry of Foreign Economic Relations and Trade, concerning the Industrial, Technological and Cooperation Accord; played a key role in formation of the bilateral Joint Council on China Trade; and held seminars between legal experts from both countries which resulted in the adoption of a new patent law in China and initiation of a U.S.-Chinese bilateral tax treaty. In addition to assisting the steady stream of high-level visitors and enormous demand for counseling services, which have resulted in multi-million dollar contracts, the staff has produced a study on establishing commercial operations in China.

Samir Saikali, Abdullah Mejalli, Awatef A. Chbaro

U.S. and Foreign Commercial Service
Kuwait
International Trade Administration

Messrs. Saikali and Mejalli and Ms. Chbaro have distinguished themselves in the delivery of commercial services by performing exceptionally in the aftermath of the terrorist attack on the American Embassy in Kuwait. Although their office was destroyed in the blast and there was a persistent threat of danger, they continued to perform their counseling services, maintained the commercial library, and held trade missions under extremely difficult conditions and with great courage.

Mrs. Berger has made significant contributions in the area of information dissemination, first as Librarian and more recently, in the expanded role as Chief of the Information Resources and Services Division. She has automated most of the information systems within the library resulting in quicker, more accurate and far-reaching reference information through expanded data bases for the scientists and staff of the Bureau. The ability to do on-line searches has improved the technical output of the staff and provides an accurate inventory of library resources. Mrs. Berger chairs the Federal Librarians Roundtable of the American Library Association and makes numerous presentations to the information community.

Martha A. Branstad

Computer Scientist
Institute for Computer Sciences and Technology
National Bureau of Standards

Dr. Branstad is recognized for her exemplary management of the Software Engineering Program. Dr. Branstad has established this organization as an internationally recognized leader in software engineering. Of particular note is her pioneering work in automated software tools that established the direction now being followed thoughout the software development community. She is an organizer, leader, and featured speaker in conferences and professional meetings at both the national and international level. Her outstanding efforts have brought considerable credit to the Department.

George W. Burns

Electrical Engineer
National Measurement Laboratory
National Bureau of Standards

Mr. Burns is recognized for his meritorious service to the Department and U.S. industry resulting from his standards activities in the measurement of temperature using thermocouples. His authorship of many American Society for Testing and Materials standards for thermocouples has had a broad impact on U.S. industry. He was elected as a Fellow in the American Society for Testing and Materials. He has effectively administered the Bureau's Thermocouple Calibration Service, resulting in added efficiency and more accurate calibrations to U.S. customers in science, academia, and industry. He developed a new thermocouple which has received international recognition. He is often called upon by representatives of U.S. industry to assist them in solving temperature measurement problems using thermocouples.

James H. Burrows

Director, Institute for Computer Sciences and Technology
National Bureau of Standards

Mr. Burrows is recognized for his outstanding leadership of the Institute for Computer Sciences and Technology (ICST) and his administration of major programs that advance the safe and effective use of computers throughout the Nation. He has strengthened ICST's laboratory activities to emphasize areas of emerging technological importance such as local area networks, office automation, and microprocessor technology. Mr. Burrows has a distinguished record of accomplishments that have strengthened his organizations' technical programs, improved relationships with both private sector and government organizations, and provided continuity and stability in a changing environment.

Eugene S. Domalski
Kenneth L. Churney
Albert E. Ledford, Jr.
Martin L. Reilly

Chemists and Physicists
National Measurement Laboratory
National Bureau of Standards

The research team of Drs. Domalski, Churney, Ledford, and Reilly is recognized for valuable contributions to science and technology in developing specifications for materials recovered from municipal solid waste. This research team developed the world's largest capacity combustion flow calorimeter to measure the calorific content of refuse-derived fuels and to monitor the products of combustion for potential toxic or hazardous effluents. The results of this work significantly contributed to the National Bureau of Standard's response to mandates of the Resource Conservation and Recovery Act of 1976 (Public Law 94-580) in the provision of guidelines for accurate specifications of recovered materials.

David L. Ederer

Research Physicist
National Measurement Laboratory
National Bureau of Standards

Dr. Ederer has done exceptional, systematic, fundamental research on the photoionization of atoms and molecules utilizing synchrotron radiation. His systematic studies have taken him from the simplest atomic systems, the rare gases, to the more difficult metallic systems, and presently to complex molecular systems such as the technologically important alkali halides. This work has earned him an international reputation in synchrotron radiation research, and has resulted in several, creative breakthrough experiments that have provided new directions to experimental and theoretical research on the dynamics of excited atomic systems.

rational spectroscopy to technically important problems in polymer physics. He has developed highly sophisticated techniques for answering longstanding questions about how polymeric materials fail when subjected to radiation or mechanical loads. Detailed knowledge of these failure modes is necessary to deduce the best ways to reduce failure and improve the performance and lifetime of polymer materials. In addition to his own pioneering research, Dr. Fanconi supervises a broad research program on mechanical properties of polymers. His work is highly accurate and sophisticated, addresses problems of broad industrial importance, and is widely recognized for its scientific excellence.

Frederick R. Fickett

Physicist
National Engineering Laboratory
National Bureau of Standards

Dr. Fickett is recognized for his outstanding research which has contributed to the efficient use of copper by the national and international electromagnetic communities. As a result of his work, copper is now being used in innovative ways, not only by researchers in the field of superconductivity but by electrical power utility industries such as the General Electric Company and by magnet industries such as the Magnet Corporation of America. His wall chart of the low temperature properties of copper is seen in laboratories such as the Fermi Laboratory in Illinois, the Massachusetts Institute of Technology, National Magnet Laboratory, and the Kernforschungszentrum in Germany. He has earned the worldwide reputation as an authority on the low-temperature properties of copper.

science by developing improved mathematical techniques for allocating, in the best possible way, limited resources. She identified areas of research considered by the mathematical community as "too hard to solve to true optimum." She used the most sophisticated mathematical tools and computing techniques available to develop generalized methods for solving heretofore unsolvable problems in three different, difficult areas of optimization theory. Her methods have been successfully used in siting waste processing facilities in Mississippi, retrofitting health care facilities in Massachusetts, testing the design of integrated circuits, and determining the minimal cost of retrofitting buildings to meet fire safety standards.

David S. King
Richard R. Cavanagh

Research Chemists
National Measurement Laboratory
National Bureau of Standards

Drs. King and Cavanagh are cited for their highly creative development and use of the technique of laser-excited fluorescence to probe the distribution of energy states of molecules thermally desorbed from surfaces. Their pioneering experiments in which nitric oxides was desorbed from ruthenium and ruthenium oxide surfaces have opened up new avenues of research in surface science, making it possible for dynamic surface processes to be investigated experimentally as well as theoretically. Results of their work indicate clearly the non-equilibrium nature of the desorption process. These and similar experiments will lead to improved catalysts and other applications of surface chemistry.

Hassel M. Ledbetter

Metallurgist
Center for Materials Science
National Bureau of Standards

Dr. Ledbetter is recognized for his outstanding research on elastic properties and composites. His experimental work has provided data on elastic properties of engineering alloys at low temperatures and on elastic constants of new particle and fiber reinforced composites. He has developed new theories for prediction of elastic properties, for magneto-elastic anomalies at low temperatures, and for prediction of composite properties based on reinforcement materials mofphology and distribution. His research and theory on elastic properties is the major current U.S. effort in this field. This effort has resulted in increased understanding of engineering materials, to permit better alloy and composite selection and optimum design of critical structures.

Geoffrey B. McFadden

Mathematician
National Enginering Laboratory
National Bureau of Standards

Dr. McFadden is recognized for his outstanding accomplishments in mathematical modeling, analysis, and computation of theoretical problems of materials science. In collaboration with scientists of the Center for Materials Science, he developed innovative, analytical and numerical methods for modeling metal and semiconductor solidification. His methods have provided new insight into complicated problems of instability, which occur in the manufacture of metal alloys and semiconductor crystals. Dr. McFadden has increased the ability to analyze fundamental problems of materials solidification. Externally, he has improved the control of industrial processes.

James J. Rhyne

Physicist (Solid State)
Center for Materials Science
National Bureau of Standards

Dr. Rhyne has made outstanding contributions to our understanding of amorphous magnetism and other critical properties of new high-technology magnetic materials, which underlie their potential use in power transformers, transducers, and transportation and computer systems. His leadership in the international magnetic materials community and his excellent collaboration with U.S. industry and universities have greatly advanced the stature and recognition of the National Bureau of Standards in this important field. Dr. Rhyne has also greatly enhanced programs in materials science developing a computerized data acquisition and analysis system for the materials research facilities.

Hratch G. Semerjian

Supervisory Mechanical Engineer
National Engineering Laboratory
National Bureau of Standards

Dr. Semerjian is recognized for his major contributions to fundamental science and applied technology by his development of laser tomographic and optical diagnostics techniques for chemically reacting and combustion processes. With Dr. Semerjian's techniques, industry is able to monitor the temperature, chemical composition, and concentration of chemically reacting species within one thousandth of a second time interval so that dynamic changes in these processes can be followed. Dr. Semerjian's measurement techniques will have significant impact on the monitoring and control of industrial furnaces and chemical reactors and will increase the efficiency of their operation as well as reduce unwanted or pollutant species.

distribution of extreme wind speeds and the response of tall buildings to wind forces has brought him and the Department national and international recognition. He is the author of a textbook on wind engineering widely used throughout the United States. He contributed significantly to a widely-cited study published by the American Society of Civil Engineers on the effects of wind on structures. His research provided the basis for the revision of the standard for structural design loads specified in U.S. buildings codes. His work was recently recognized by the National Society for Professional Engineers when he was selected from among engineers at 32 Federal agencies as the Federal Engineer of the Year.

Walter J. Stevens

Physicist
National Measurement Laboratory
National Bureau of Standards

Dr. Stevens is recognized for his valuable contribution to science and technology in developing and applying new theoretical chemistry methods that substantially reduce the costs of molecular structure research and allow the study of systems previously considered too complex for theoretical investigation. Using relativistic effective potentials, Dr. Stevens developed simplified methods for accuracy calculating the structure and properties of complex molecules. These new techniques have already proved useful in fundamental spectroscopic studies and are now being applied to molecular electronic structure calculations on biological molecules and systems containing heavy metal atoms.

[illegible] made significant con-

tributions to the personnel management programs of the National Bureau of Standards and the Department. She reorganized the Personnel Division, hired outstanding key staff, brought a level of personal competence that resulted in increased efficiency, improved morale and a higher level of service to management. Her strong leadership in implementing new programs such as Civil Service Reform (Senior Executive Service, Merit Pay), general workforce performance appraisal system, employee assistance program, supervisory development program, grade control, and an automated personnel system have produced a personnel management program which plays a key role in accomplishing the mission of the Bureau.

Fred L. Walls

Physicist
National Measurement Laboratory
National Bureau of Standards

Dr. Walls is recognized for his creative and skillful development of the passive hydrogen maser clock. This clock, which is referenced to an atomic transition in hydrogen, exhibits the highest long-term stability of any clock in the world. The clock has significantly improved the atomic time scale, and as additional hydrogen masers are added to the clock ensemble, the effect of the development will become even more pronounced. Dr. Walls' work has stimulated a number of development programs in the private sector, the largest being a $10 million effort aimed at satellite systems. There is strong interest in the application of the device in defense systems. The clock will be marketed commercially and will soon become a critical element in the success of worldwide, satellite-based navigation and communication systems.

William J. Alder

Meteorologist in Charge
National Weather Service
National Oceanic and Atmospheric Administration

Mr. Alder is recognized for outstanding technical ability, management skills, and professional courage before and during the 1983 and 1984 severe flooding in Utah. The minimal loss of life during the unprecedented spring floods and land failures was due in part to Mr. Alder's work. His discerning analysis, months before, of potentially disastrous conditions set the stage for life-saving preparedness. This was followed by a personal campaign of agency contacts and media appearances, creating a public awareness of the developing threat, its uncertainty, and the need to prepare. During the disaster, Mr. Alder managed a most effective warning and advisory service while serving on numerous task forces and advising the Governor's staff.

Vaughn C. Anthony

Supervisory Fishery Biologist
National Marine Fisheries Service
National Oceanic and Atmospheric Administration

For almost a decade, Dr. Anthony has significantly improved the way scientists determine the abundance and productivity of fish populations — also called "assessment". Assessments are critical to managing fish stocks important to the American fishing industry. Dr. Anthony improved communication with industry, led the work of many international committees and working groups, and published major scientific papers recognized as key references in his field. Dr. Anthony's contributions have significantly improved the management of fishery resources worth millions of dollars to the national economy.

John J. Carey

Director, Office of Budget and Finance
National Oceanic and Atmospheric Administration

Mr. Carey is cited for improving the quality and effectiveness of the National Oceanic and Atmospheric Administration's budget and financial management systems. His accomplishments include: revising an outdated budget structure; merging the agency's budget and finance systems to provide closer coordination between the two functions; making significant improvements to internal management and control systems; and providing leadership in special projects to improve the efficiency of the Department's programs.

Malcolm Reid

Supervisory Meteorologist
National Environmental Satellite, Data, and Information Service
National Oceanic and Atmospheric Administration

Mr. Reid is recognized for meritorious contributions to developing operational climate impact assessments. Since he began this project six years ago, Mr. Reid has demonstrated the value of assessments to the degree that the assessments program has expanded rapidly. The operational impact assessment program provides the only Government assessment capability of the economic impact of climate on all sectors of the U.S. economy. Mr. Reid's ideas have made this program possible and his talent and effort have produced a valuable product. Mr. Reid laid the foundation for obtaining the maximum benefit from the national archive of climatic data and the science of climatology.

Chief, Branch of Harvesting Technology

National Marine Fisheries Service
National Oceanic and Atmospheric Administration

Messrs. Seidel and Watson are cited for their significant contributions to conservation programs for threatened and endangered sea turtles. They developed the Turtle Excluder Device which reduces the incidental capture of sea turtles in shrimp trawls by almost 100 percent. The device was developed through a four-year research program involving major segments of the shrimp industry, environmental groups, and State and Federal fishery management agencies. It is the National Marine Fisheries Service technical option to other management measures (i.e., area closures) to reduce the incidental mortality of sea turtles by commercial shrimp trawlers. The mortality of these animals is considered one of the two most serious environmental problems faced by the Service in the last decade. Currently, over 200 devices are in voluntary use in the south Atlantic shrimp fishery, primarily because of ancillary benefits developed and demonstrated by the investigators, including increased shrimp catches and reduced bottom trash and marine organism bycatch. The device is being used by Indonesia to reduce a finfish bycatch problem in their shrimp fishery, and other countries are considering its adoption.

Administration

Messrs. Snay, Cline, and Timmerman are recognized for their innovative studies of horizontal crustal movement combining old and new geodetic survey data with seismic, geologic, and tectonic information. The combination of varied data types into more complete and realistic mathematical models permitted the inclusion of all California surveys necessary for the readjustment of the North American Datum. The successful mathematical modeling techniques reflect extensive literature search, creative use of computer technology, innovative mathematical techniques, outstanding project management, and excellent documentation of scientific results.

Stanley A. Spivey

Program Leader
National Weather Service
National Oceanic and Atmospheric Administration

Over the past four years, Mr. Spivey's major contributions in office automation have significantly increased the effectiveness of National Weather Service programs. Through his outstanding management, the implementation of the Automation of Field Operations and Services (AFOS) in the Southern Region met or exceeded all project estimates. Mr. Spivey pioneered the innovative use of microcomputers as backup to AFOS. His management talents have also been used to implement a Department-wide electronic time and attendance reporting system. The potential savings to the Government of this automation effort are enormous. Through his guidance and industry, successful tests of the system in the Southern Region have proven the feasibility of this idea.

Hans J. Liebe

Electronics Engineer
Institute for Telecommunications Sciences
National Telecommunications and Information Administration

Dr. Liebe is recognized for outstanding technical contributions in furthering millimeter wave technology. These contributions have been of fundamental importance in understanding the basic interactions between millimeter waves and the natural environment in which they are propogated. The results form the basis of a millimeter wave model that determines telecommunications system performance at frequencies above 30 GHz and thus helps assess to what extent spectrum congestion might be eased by using these frequencies. As a result, trade-offs between user's needs and costs to implement new telecommunications systems required to provide services at millimeter wavelengths can be systematically studied. This permits the design of telecommunication systems which meet real-world requirements at minimum cost.

Charles M. Rush

Deputy Director for Spectrum Division
Institute for Telecommunications Sciences
National Telecommunications and Information Administration

Dr. Rush's outstanding technical leadership and contributions have led to the development of improved methods for telecommunications use in the United States. Specifically, for his work in planning for high frequency spectrum use for international broadcasting purposes, improving procedures for determining the location of unknown communication equipment, and enhancing methods for better assessing the performance of telecommunication systems. These permit the application of state-of-the-art procedures to determine the performance of telecommunication systems that rely upon using the upper atmosphere. These contributions result in better telecommunication systems design that meets the needs of the user, while at the same time enhances spectrum efficiency and reduces overall cost. This allows U.S. industries to better

Charles H. Jennings, III

Resource Planning Specialist
U.S. Patent and Trademark Office

Mr. Jennings is recognized for extraordinary leadership and highly competent performance. Through his superior managerial skills he has exhibited unusual initiative and creativity in developing user requirements and request for proposal to acquire a systems contractor to develop and install the automated patent system. Mr. Jennings developed the outlines, organized and staffed the teams, managed the development of the documentation, and obtained clearances. He was frequently called on to offer advice and suggestions which have strengthened the work performance of the entire automation organization in support of the goals of the U.S. Patent and Trademark Office.

John J. Love

Supervisory Patent Examiner
U.S. Patent and Trademark Office

Mr. Love, through his excellence and outstanding leadership, has had a significant impact on the high quality of work performed with regard to the Fluid, Sprinkling, Spraying, Diffusing Art and other patent examining programs. He has distinguished himself as a Supervisory Patent Examiner and during his tenure has performed a variety of special assignments with the same degree of excellence. One such assignment was to provide recommendations on a bonus system for Supervisory Patent Examiners. Through his efforts and leadership, greater contributions to programs of the U.S. Patent and Trademark Office have been made by other employees.

Messrs. Maassel, Thesz, and Turner are recognized for their meritorious contributions in implementing Public Laws 96-517 and 97-247 relating to patent user fees. Faced with demanding deadlines and complexities, they prepared, published for comment, revised, and promulgated the rules required to implement the provisions of these public laws. The laws made extensive and significant changes in the fees paid by the public for services provided by the U.S. Patent and Trademark Office. With their excellent and dedicated contributions, all of the necessary rules and internal office procedures were adopted prior to the effective dates.

Golda J. Patterson

Supervisory Applications Clerk
U.S. Patent and Trademark Office

Mrs. Patterson through her outstanding abilities and leadership has developed an extremely effective clerical staff. Her management of the Group's clerical section has improved the accuracy and timeliness of reports and processing of applications resulting in cost benefits to the U.S. Patent and Trademark Office and an increased high level of service to the public.

que collections of technical information for Genetic Engineering and Robotics, introducing new practices and procedures for assembling and organizing technical literature. These collections contain virtually all of the world's known patent literature in these areas and extensive collections of non-patent literature. Complete sets of the material on these areas have been assembled at the U.S. Patent and Trademark Office for exclusive use of industry and the general public. These are the first separate, comprehensive collections that have been prepared for both examiners and the public. Also, information on the entire patent portion of both collections has been made available on a nationwide basis via the Patent Depository Library Program.

Raymond R. Rahn

Supervisory Computer Systems Analyst
U.S. Patent and Trademark Office

Mr. Rahn is recognized for extraordinary leadership and outstanding technical expertise in the design and development of a major program essential to the U.S. Patent and Trademark mission. Mr. Rahn's effort resulted in the successful implementation of a highly efficient workflow control and management information system vital to the operation of Trademark processing. His resourcefulness, dedication, and expertise allowed Trademark data to be integrated into one automated system that is used by the public and by Office employees to process and maintain Trademark information. Mr. Rahn continues to apply this same dedication and skill to the expansion of the Trademark automated effort.

Robert H. Spitzer

Primary Examiner
U.S. Patent and Trademark Office

Mr. Spitzer is recognized for his outstanding skills and abilities which have advanced the program of reducing the pendency of patent applications. His record of outstanding productivity and high quality work has exceeded what was expected of him by an average of 137% with the lowest, yearly production 89% over expectations. This sustained record of high-level performance demonstrates Mr. Spitzer's commitment to the successful advancement of the U.S. Patent and Trademark Office program of patent pendency reduction.

Alvin E. Tanenholtz

Patent Examiner
U.S. Patent and Trademark Office

Mr. Tanenholtz is recognized for his exceptional skills in examining patent applications in biotechnology. His outstanding knowledge of biotechnology and his continuous dedication have resulted in high quality performance which has led to a reduction in the pendency of applications. Mr. Tanenholtz's willingness to share his knowledge and to inspire and train others has benefited the Patent Examining Corps and the public. His accomplishments are invaluable to patent examining programs and the Government.

Robert F. White

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

Mr. White is recognized for his extraordinary technical and administrative leadership as the Director of a patent examining group. His effectiveness as a manager, contributes significantly towards reducing patent application pendency. Mr. White's skill in motivating and developing more than 100 subordinates has increased Group productivity far beyond established goals. This accomplishment was accompanied by outstanding cost efficiency. Mr. White has demonstrated administrative excellence in handling special assignments including the design, implementation, and ongoing refinement of PALM, an automated patent application monitoring and locating system.

Assistant Secretary and Commissioner of Patents and Trademarks



Mr. Mossinghoff was selected by the American University for his outstanding leadership and organizational achievements.

Interagency Committee on Information Resources Management Awards

C. L. Kincannon

Deputy Director
Bureau of the Census

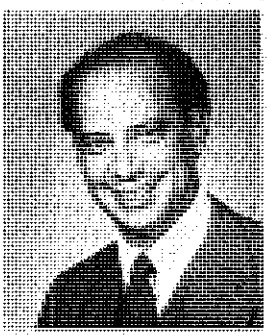


Mr. Kincannon was selected by the Interagency Committee on Information Resources Management for his work in implementing an interagency automated map and geographic data base.

William A. Jump Memorial Award

Raymond G. Kammer, Jr.

Deputy Director
National Bureau of Standards

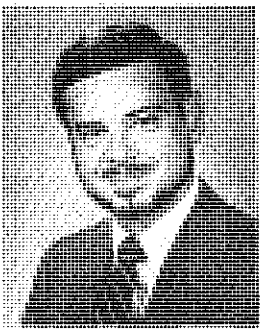


Mr. Kammer was selected by the William A. Jump Memorial Foundation for exceptional leadership in establishing sound management systems and programs and exemplary achievements in public administration.

Federal Engineer of the Year Award

Emil Simiu

Research Structural Engineer
National Engineering Laboratory
National Bureau of Standards



Dr. Simiu was selected by the National Society of Professional Engineers for significant technical contributions in design criteria which will reduce significantly damages caused by wind each year in the United States.

Arthur S. Flemming Award

Candice A. Stevens
(former employee)

Economist
Office of Strategic Resources
Office of the Under Secretary for Economic Affairs



Ms. Stevens was selected by the Arthur S. Flemming Awards Commission for her outstanding contributions to the development of national minerals and materials policy.

Congressional Award for Exemplary Service (Honorable Mention)

Kathy C. Stang

Conference Coordinator
National Measurement Laboratory
National Bureau of Standards



Mrs. Stang was selected as one of the top 16 outstanding Government employees for consistently providing prompt and courteous service to the public.

ational Bureau of Standards

ederick T. Knickerbocker
ecutive Director
fice of the Under Secretary for Economic Affairs

ed Wu
puty Assistant Secretary for Export Enforcement
ternational Trade Administration

Deputy Assistant Secretary for Intergovernmental Affairs
Office of the Secretary

Roland H. Moore
Associate Director for Field Operations
Bureau of the Census

Marsha E. Frost
Director, Incentive Awards Program
Office of Personnel

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

special thanks to:

Incentive Awards Program Officers of the Department:

Jim Alexander — PTO
Bob Corby — NOAA
Brenda Evans — EDA
Peggy Hemsley — ITA
Nancy Kripner — FCS
Golden Mayberry — OS
Karen Seebold — CEN
Joan Schneider — NBS
Marie van Wyk — OIG

and their valuable Assistants.

United States Air Force Band

Joint Armed Forces Color Guard

Publications Service

