

*Forty-First Annual  
Honor Awards Program*



1989

*United States Department of Commerce*

*Forty-First Annual  
Honor Awards Program*



**Department of Commerce Auditorium  
Herbert C. Hoover Building**  
Fourteenth Street and Constitution Avenue, N.W.  
October 11, 1989

**Music**

First U.S. Army Band

**Introduction**

John M. Golden, Director for Personnel and Civil Rights

**Presentation of Colors**

Armed Forces Color Guard

**National Anthem**

First U.S. Army Band

**Address**

Honorable Robert A. Mosbacher, Secretary of Commerce

**Announcement of Awards**

Honorable Thomas J. Collamore  
Assistant Secretary for Administration

**Presentation of Silver Medals**

Secretary Mosbacher assisted by Departmental Officials

**Presentation of Gold Medals**

Secretary Mosbacher assisted by Departmental Officials

**Soloist**

Karen Wiggs-Collins



### **Message From The Secretary**

Our honor awards program is an opportunity for us to celebrate the excellence and outstanding achievements by some of the men and women of the Department. As a newcomer to the Department, I have sought to meet as many employees as possible. And I have always come away with a feeling that they deserve their reputation as dedicated and highly qualified civil servants who are a source of pride and inspiration to others and to Commerce. As President Bush has noted, Federal employees "serve our country with skill and dedication, seeing to it that the will of the American people is carried out effectively."

It is that dedication and hard work in the face of difficult and often overwhelming challenges that we honor today. The challenge of excellence confronts every American, on the shop floor, in business, and in Government. World competition challenges us to improve the quality of our work, increase productivity, and be more creative in every task we undertake. We in the Commerce Department with our diverse missions must meet those difficult challenges head-on. The initiative and energy with which Commerce employees are moving to meet these obstacles testifies to their dedication and devotion to the well-being of the American people. Today, we honor a few who have met that challenge in an extraordinary way.

I am proud of all our employees, and want to express my thanks to these dedicated Commerce people for their leadership in providing inspiration for us all. I wish them success in the future.

A handwritten signature in black ink, appearing to read "R. Mosbacher". The signature is fluid and cursive, with a large initial "R" and a long, sweeping underline.

*Robert A. Mosbacher*



## *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.*



**Mark E. Brown**

*Director, Office of Budget*

*Assistant Secretary for Administration*

Mr. Brown has demonstrated throughout his 16 years of Federal service the capacity to motivate and guide the best efforts of the staff, and to provide imaginative and effective budget and policy support to senior policy officials. He is recognized throughout Commerce for his expertise and for his professionalism. His work has won the praises of Departmental Secretaries, Deputy Secretaries, and Assistant Secretaries for Administration—as well as members of Congress and their aides. For his years of dedication, keen analysis, and hard work, Mr. Brown is deserving of the Department's highest honor.



**Robert P. Parker**

*Associate Director for National  
Economic Accounts*

*Bureau of Economic Analysis*

Mr. Parker is recognized for outstanding contributions to the quality of the national economic accounts of the United States. He is in charge of designing the estimating methodologies used in the national economic accounts, directing their preparation, and presenting and interpreting them to Department officials and to others. Mr. Parker's professional expertise, excellent judgment, and outstanding leadership have been instrumental in maintaining the high quality of the national economic accounts. He personally developed many new estimating methodologies, made necessary by changes in the structure of the economy, and created a highly successful program to maintain the quality of the source data provided by other Government agencies that are used to prepare the accounts.



**Gerald F. Cranford**

*Assistant Director for  
Automated Data Processing*

*Bureau of the Census*

Mr. Cranford is recognized for his outstanding direction of the activities of one of the Federal Sector's largest computer processing organizations. He has consistently demonstrated how an effective manager can not only put an organization on the right course, but position it for continued success in the future.

Mr. Cranford's dedication and outstanding leadership have resulted in heightened morale, record-setting productivity, extensive user support and satisfaction, and equipment and facility modernization with few rivals.



**Richard W.H. Lee**

*Director, Science and  
Technology Programs*

*International Trade Administration*

Dr. Lee is recognized for a lasting contribution to U.S.-Sino relations and the U.S. commercial interest in China. He developed and managed for 10 years an internationally acclaimed management training program with the National Center for Industrial Science and Technology Management Development in Dalian, China. The program introduces Chinese students and managers to American management concepts and practices. The training involved a wide range of academic courses given in China and in the United States. The program established by Dr. Lee is now the model for similar programs established in China by other countries.



**Joan M. McEntee**

*Deputy Under Secretary for Export Administration*

*Bureau of Export Administration*

**Maureen R. Smith**

*Deputy Assistant Secretary*

**Philip R. Agress**

*International Trade Specialist*

*International Trade Administration*

**John Richards**

*Deputy Assistant Secretary*

*Bureau of Export Administration*

The Commerce team on the FSX project performed a service of historic importance to the welfare of the Nation. Its efforts laid the basis for the development of a new national policy direction which puts economic concerns on an equal basis with defense issues in defining national security. The extraordinary dedication, competence and hard work of the team led to changes in national policy which go well beyond this project. The improvements in the FSX agreement serve to safeguard technology critical to our nation's lead in commercial aviation, to protect a key element of our national defense industrial base, and to assure that breakthrough technologies developed during the course of the project will be returned to the United States.



**George Birnbaum**

*Senior Scientist*

*Institute for Materials Science  
and Engineering  
National Institute of Standards  
and Technology*

Dr. Birnbaum is cited for highly distinguished authorship and editorship in molecular spectroscopy and for unusually outstanding scientific leadership in the nondestructive evaluation (NDE) program. His accurate measurements of the far infrared spectrum of non-polar compressed gases such as hydrogen and theoretical methods for analyzing and computing such spectra are widely regarded as the primary source of reliable information relevant to modelling the thermal radiance of the outer planets. In addition, he has provided outstanding scientific leadership in organizing and establishing several NDE projects for the evaluation of material properties and for probing materials and structures for defects.



**Lloyd A. Currie**

*Supervisory Research Chemist*

*National Measurement Laboratory  
National Institute of Standards  
and Technology*

Dr. Currie is recognized for insightful and fundamental contributions to measurement science in atmospheric chemistry and the application of chemometrics (mathematics and statistical design) in analytical chemistry on national and international scales. His outstanding contributions have established a more accurate chemical measurement system and led to understanding the human impact on the atmosphere by pioneering new, more sensitive technologies for measuring carbon-14 in pollutants, using chemometrics to model pollutant contributions in local, regional and world-wide studies. Using the same concepts, he has established detection limits and test methods for Federal workplace drug testing protocols and for minimum emissions from all nuclear reactors in the United States.



**Clark A. Hamilton**  
**Richard L. Kautz**  
*Electronics Engineers*

**Frances L. Lloyd**  
*Physicist*

**James A. Beall**  
*Electronics Engineer*

**Richard E. Harris**  
*Group Leader*

*National Engineering Laboratory  
National Institute of Standards  
and Technology*

Messrs. Hamilton, Kautz, Beall, Harris and Ms. Lloyd have developed the first practical superconducting series array voltage standards at both one and ten-volt levels. These standards offer significant advantages

over systems used previously, especially in accuracy. The U.S. primary voltage standard is a chip fabricated by this group. NIST 1-V standards are installed at 17 sites around the world, including most of the free-world national standards laboratories. Industry has already asked for the 10-V standards, in one case using the 10-V chip at NIST to establish key instrument performance parameters essential to marketing a new class of precision multimeters. Major challenges were met in fabricating the 20,000 Josephson junctions of the 10-V chip, believed to be the largest practical superconducting circuit in the world.



**Donald Wayne Hanson**

*Supervisory Electronics Engineer*

**David Allan Howe**

*Electronics Engineer*

**James L. Jespersen**

*Physicist*

*National Measurement Laboratory  
National Institute of Standards  
and Technology*

Messrs. Hanson, Howe, and Jespersen are cited for their world leadership in developing the technique of Two-Way Time Transfer. This method provides for billionth-of-a-second synchronization of widely separated clocks, making it the most accurate time coordination tool in existence today. Messrs. Hanson, Howe and Jespersen developed special earth-satellite stations, determined the timing stability in all system components, and demonstrated the concept.

NIST is now recognized as a world leader in this field. They also led the development of a network which links the United States to the key timing laboratories in Europe. The experience gained in the development of the system serves as the basis for a new NIST satellite time service.

**Harold E. Nelson**

*Senior Research Engineer*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

Mr. Nelson is recognized for his outstanding contributions toward advancing the science of fire protection. Through his outstanding vision and leadership, he has pioneered the development and demonstration of new methods in the practice of fire protection. In the late 1970's, he developed an alternative fire safety evaluation system that has now been adopted in the National Fire Protection Association's Life Safety Code. Currently, he is advancing the concept of deterministic methods for fire safety evaluation and has demonstrated their use in the analysis of real fires such as the Dupont Plaza Hotel in Puerto Rico.



## **Joseph Reader**

*Physicist*

*National Measurement Laboratory  
National Institute of Standards and  
Technology*

Dr. Reader is recognized for extraordinary research on the spectra of highly ionized atoms. He developed innovative approaches to obtain high precision data at the cutting edge of the field. Dr. Reader's results have radically advanced the state of the art in this field. His extraordinary achievements have substantially advanced several of the Nation's high technology and science programs, such as x-ray lasers, magnetic-fusion research, space astronomy, and basic atomic theory. Dr. Reader's innovative research has brought NIST and himself worldwide recognition for undisputed leadership in this field.



## **Emil Simiu**

*NIST Fellow*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

Dr. Simiu is recognized for his outstanding technical leadership and unusual creativity in the field of structural dynamics. His work on wave and wind effects on drilling platforms has reduced the uncertainties involved with the design of these structures. Specifically, his procedures for predicting the surge response of tension leg platforms, developed at the request of the Mineral Management Service of the Department of the Interior, are widely used by the design profession. Dr. Simiu has advanced knowledge in structural dynamics, transferred to practice leadership of standardization activities, and contributed to education through authorship of books and papers.



**Barry N. Taylor**

*Chief, Electricity Division*

**Marvin E. Cage**

**Ronald F. Dziuba**

**Paul T. Olsen**

**John Q. Shields**

**Edwin R. Williams**

*Physicists*

*National Measurement Laboratory  
National Institute of Standards and  
Technology*

This group has made contributions without which the 1990 International Adjustment of Electrical Units could not take place. They performed four key experiments linking the International System of Units definitions of the electrical units to NIST national standards at unprecedented levels of accuracy. The results from this work were the principal factor in determining the fundamental constant (von Klitzing) that will be the basis for the ohm. The results were also a major factor in determining another fundamental constant (Josephson) that will be the basis for the volt. The work will result in consistent electrical standards worldwide and materially impact the \$223 billion U.S. electronics industry.



**William D. Bonner**

*Director, National Meteorological  
Center*

*National Weather Service  
National Oceanic and Atmospheric  
Administration*

Dr. Bonner is recognized for outstanding management and leadership that has dramatically increased the quality and quantity of service to the National Weather Service (NWS) field stations and to the public. He brought the NWS to international prominence in numerical weather and climate prediction through the use of scientific emphasis in the operational setting. He established strong links to research institutions, established the visiting scientist and the visiting forecaster program, attracted nationally and internationally recognized scientists to the Center, and acquired supercomputers essential to the provision of state-of-the-art meteorological analysis and forecasts. The stature of the National Meteorological Center is a source of pride for NOAA, the Department, and the Nation.

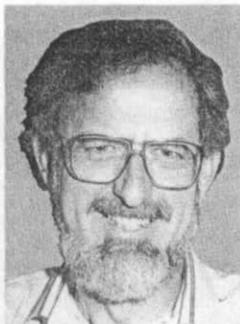


**J. Michael Hall**

*Director, Office of Climatic and  
Atmospheric Research*

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

Dr. Hall is recognized for his leadership of the international Tropical Oceans-Global Atmosphere (TOGA) Program which has become the centerpiece of the World Climate Research Program and a high-priority, prototype component of the U.S. Global Change Research Program. The TOGA Program is organized to increase our ability to predict the influence of air-sea interactions in tropical ocean waters on the global atmospheric conditions that determine the patterns of climate. With outstanding vision, talent and dedication, Dr. Hall has guided this extraordinarily large-scale scientific program, designed to ensure an effective national response to the economic, environmental and national security issues associated with global environmental change.



**Stanley P. Hayes**

*Supervisory Oceanographer*

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

Dr. Hayes is recognized for managing the highly successful Equatorial Pacific Ocean Climate Studies (EPOCS) Program. During his tenure EPOCS was extremely productive with over 600 scientific publications that contributed fundamentally to man's understanding of the El Nino Southern Oscillation phenomena, including the deployment of an equatorial ocean observing system and the development of an operational ocean circulations model that significantly enhances NOAA's ability to predict El Nino events. This capability is having a major impact on agricultural decisions in tropical countries.



**Susan Solomon**

*Chief, Middle Atmosphere Studies*

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

Dr. Solomon is recognized for her key theoretical and experimental contributions to the understanding of polar ozone. She made the major theoretical breakthrough in deciphering the cause of the Antarctic ozone "hole." She also led the National Ozone Expeditions to Antarctica that characterized this dramatic phenomenon. In addition, she made pivotal measurements that provided the first definitive clue that man-made chemicals are linked to the cause of the ozone "hole." Subsequently, in Greenland, she discovered that the same chemical processes also occur in the Arctic stratosphere. Dr. Solomon's findings have changed the course of ozone research; influenced worldwide public policy decisions; and set a standard for public service: impeccable science in the service of humankind.



**Richard M. Firestone**

*Chief Counsel*

*National Telecommunications and  
Information Administration*

Mr. Firestone is recognized for his long-standing and continuing extraordinary contributions to the development of U.S. communications and information policies, domestic and international, and in particular for his superb efforts this year in developing Government and industry awareness of the significance of high-definition television and in the formulation of Administration policies to address these issues. On highly-charged, complex, often unprecedented issues vital to the future of key industries, his knowledge, insight, and extraordinary efforts produced exceptional results which have significantly affected national policy.



## *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.*

## **Hugh W. Knox**

*Chief, Regional Economic Analysis  
Division*

### *Bureau of Economic Analysis*

Mr. Knox is recognized for exceptional contributions to the Department and the Nation achieved through superior leadership and management in attaining two long-standing Bureau of Economic Analysis objectives: (1) the preparation and publication of the first set of gross state product (GSP) estimates by industry, and (2) the use of the GSP estimates as the basis to integrate the Bureau's mid-term and long-term regional economic projections.

## **Eileen M. Albanese**

*Director, Special Licensing Division*

### *Bureau of Export Administration*

Ms. Albanese is recognized for her lead role in developing and obtaining interagency and international support for the Distribution License procedure for the People's Republic of China (PRC). This initiative represents a landmark in US/PRC trade relations that will expand significantly a broad range of trading opportunities for U.S. firms in this market and improve overall bilateral economic and political relations.

## **Robert F. Kugelman**

*Acting Director of Administration*

### *Bureau of Export Administration*

Mr. Kugelman has exhibited superior leadership in policy formulation, administrative support, and organizational and budgeting management related to the establishment

and operations of the Bureau of Export Administration as a new agency in the Department of Commerce. His efforts have resulted in substantial improvements in productivity, program effectiveness, and the quality of the Department's services to the nation and the exporting community.

## **James F. Holmes**

*Regional Director*

### *Bureau of the Census*

Mr. Holmes is one of the leaders in the field in thinking about and developing new data collection concepts and procedures. He is quick to accept and support the use of new techniques and organizational concepts. He has had a significant impact on the Census Awareness and Products Program. His management of preparatory activities for the 1990 Census has been very timely and efficient.

## **Thomas L. Mesenbourg, Jr.**

*Chief, Economic Census Staff*

### *Bureau of the Census*

Mr. Mesenbourg is nominated in recognition of his superior leadership and exceptional accomplishments in improving U.S. economic statistics. He substantially improved benchmark statistics by directing the most innovative and successful economic and agriculture censuses ever. He formulated and is implementing an exemplary plan to assure that future censuses will be more burden-free, cost efficient and relevant to our dynamic economy.

**Walter C. Odom, Jr.**

*Chief, Publications Services Division*

*Bureau of the Census*

Mr. Odom is honored for outstanding leadership, productivity improvements, and exceptional service in his direction of the Census Bureau's publishing programs. His leadership has inspired his staff to fulfill their motto: Pride, Service, and Dependability. Under his guidance, publishing costs have been reduced substantially, quality has improved noticeably, and publications are being released faster. His efforts have enhanced the status of the Census Bureau as "The Nation's Fact-Finder."

**Marvin L. Postma**

*Regional Director*

*Bureau of the Census*

Mr. Postma has been an outstanding Director in the Kansas City Regional Office for 7 years. Under his direction this Regional Office has maintained the highest record of performance in data collection in the nation. Two of his recent major accomplishments were the completion of the 1988 Dress Rehearsal and the 1990 Decennial Census Prelist Operation ahead of schedule and under budget. He continually looks for ways to improve the Census Bureau operation.

**Sylvia D. Quick**

*Assistant Division Chief*

*Bureau of the Census*

Ms. Quick has given years of selfless work in improving the management and administration of the Cen-

sus Bureau's two major, complex international divisions. The improvements she made are permanent, enduring, and widely recognized among her colleagues as major contributions to the smooth operation of the International Programs of the Bureau.

**Phyllis S. Willette**

*Section Chief*

*Bureau of the Census*

Ms. Willette is recognized for outstanding service to the Department and the Nation through design, development, and implementation of automated geographic reference files that document and describe the governmental, administrative, and statistical entities of the U.S. The documents define and comprise the geographical structure of the data tabulation universe for the decennial, economic, and agricultural programs conducted by the Census Bureau during the past 20 years.

**Antidumping and Countervailing  
Duty Regulation Drafting Team**

*International Trade Administration*

The Antidumping and Countervailing Duty Regulation Drafting Team is recognized for its outstanding achievements in drafting six separate sets of regulations concerning the antidumping and countervailing duty laws and the U.S.-Canada Free Trade Agreement. As a result of its efforts, the Department's ability to effectively combat foreign unfair trade practices will be enhanced.

**William D. Spitler**

*Supervisory Trade Specialist*

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

Mr. Spitler exhibited outstanding leadership and superior management in recognizing, analyzing and solving chronic operations problems in the N.Y. District Office Market Information Center. Users were surveyed to determine their needs. He established a task force to develop and implement technological improvements. The result is a Market Information Center which provides superior service to the Nation's exporters and is a model for all District offices.

**Barbara A. Steinbock**

*Legislative Coordinator*

*International Trade Administration*

Ms. Steinbock has established the Department's lead role in special trade legislation and policy affecting industry. She created an industry reporting structure and negotiating matrix which was indispensable in securing Congressional modifications necessary to make provisions in Title I acceptable to the Administration. Her efforts and skill in the area of policy development relating to legislation have resulted in the recognition of the Department as the central coordinating point within the Administration on special trade bills affecting industry.

**Timothy P. Stratford**

*Commercial Officer*

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

Mr. Stratford is recognized for reorganizing the Joint Commission on commerce and trade and creating a new business advocacy role for Foreign Commercial Service vis a vis Chinese ministries. Under his leadership, and based in large part on his expertise as a lawyer and investment adviser, the Foreign Commercial Service has assumed the leading role as an advocate to the Chinese government for American companies.

**Ramon C. Baird**

*Chief, Electromagnetic Fields Division*

**Michael H. Francis**

*Physicist*

**Douglas P. Kremer**

*Supervisory Electronics Technician*

**Allen C. Newell**

*Supervisory Physicist*

**Andrew G. Repjar**

**Carl F. Stubenrauch**

*Electronics Engineer*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

This group has developed, refined, and disseminated the planar near-field scanning method of characterizing antenna performance. It is now the principal method in the U.S.A. for the development and evaluation of advanced antennas used for a variety of civil and defense applications. The method provides accuracy and spatial resolution unavailable by any other practical means; its use enhances the U.S. international competitive position.

### **Carroll S. Brickenkamp**

*Supervisory Physical Scientist*

*Office of the Director  
National Institute of Standards and  
Technology*

Dr. Brickenkamp is recognized for outstanding leadership and technical contributions in developing food processing and packaging standards used by industry and state governments to assure national uniformity and international compatibility in commerce. This development of standards for use in the packaging, distribution, sale, and inspection of products that gain or lose moisture between the time of pack and time of sale, solves problems that have persisted for more than 60 years.

### **Richard E. de la Menardiere**

*Chief, Acquisition and Assistance  
Division*

*Office of Director of Administration  
National Institute of Standards and  
Technology*

Mr. de la Menardiere has managed an outstanding procurement program at NIST for the past ten years. During that time, he has used his expertise in procurement management, and his effective management skills to complete major facilities acquisitions in a timely and cost-effective manner. He initiated several customer improvement programs which streamlined the acquisition process leading to more productive use of administrative personnel in the technical areas.

### **Dale D. Hoppes**

*Supervisory Physicist*

*National Measurement Laboratory  
National Institute of Standards and  
Technology*

Dr. Hoppes pioneered the development of the technology of measuring gamma radiation and its applications to radioactivity metrology. His efforts have produced outstanding advances in the measurement methods of high-quality radioisotopes. He spearheaded the transfer of this technology to the radio-pharmaceutical and nuclear power industries. As key scientist, Dr. Hoppes developed the energy-efficiency relation for the NIST gamma detectors used for radioactivity Standard Reference Materials.

### **Motohisa Kanda**

*Group Leader*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

Mr. Kanda has personally laid the theoretical basis for advanced electric field probes and measurement methods needed for resolving crucial electromagnetic interference/electromagnetic compatibility problems. The difficulties have recently been pinpointed as the cause of helicopter crashes and are of high current concern to U.S. electronic, aerospace, defense, and automotive communities. Commercial versions of his probe designs are already on the market.

## **Yong-Ki Kim**

*Supervisory Physicist*

*National Measurement Laboratory  
National Institute of Standards and  
Technology*

Dr. Kim has developed a fully relativistic theory for the calculation of radiative and collisional properties of highly ionized, heavy atoms. He has demonstrated that his new relativistic theory accurately describes such atomic properties as oscillator strengths and cross-sections. Scientists can now predict reliably property data of atomic particles under conditions typically encountered in X-ray lasers, magnetic fusion devices, space research, astrophysics, and nuclear environments.

## **Roger J. Martin**

*Supervisory Computer Scientist*

*National Computer Systems Laboratory  
National Institute of Standards and  
Technology*

Mr. Martin is recognized for significant achievements which stem from his creativity, technical competence, and professionalism in managing the NIST Software Engineering Program. His recent accomplishments include providing technical leadership in the development of an international consensus of POSIX, a standard which promotes applications software portability.

## **George E. Mattingly**

*Supervisory Mechanical Engineer*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

Dr. Mattingly is recognized for his outstanding leadership and technical contributions to fluid flow metrology. Higher cost of chemical feedstocks has necessitated flow measurements with improved accuracy and reliability, to ensure increased industrial productivity. He has developed improved flow metering techniques applicable to a wide range of U.S. industries. The round robin programs he has conducted have established world-wide traceability for fluid flow measurements.

## **Bruce R. Miller**

*Physicist*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

Dr. Miller is recognized for major contributions to the solution of problems in nonlinear dynamics, in particular for his versatile software that automatically produces Fortran programs. To make striking improvements in computations required by the Naval Observatory for satellite tracking and high-precision time standards, Mr. Miller brilliantly combined advanced techniques in symbolic processing with well-chosen mathematical theories to accelerate computations while retaining the maximum accuracy.

## **Nile M. Oldham**

*Physicist*

*National Engineering Laboratory  
National Institute of Standards and  
Technology*

Mr. Oldham has developed and implemented digital waveform-synthesis techniques that have resulted in improvements in commercial products and in NIST calibration services needed by U.S. industry. His research in precision waveform synthesis most recently has been incorporated in a calculable and transportable AC voltage reference source. Mr. Oldham's work provides the basis for this and other NIST instrument's unprecedented measurement accuracies for electronic instruments, at the ten-ppm level.

## **E. Neville Pugh**

*Chief, Metallurgy Division*

## **Ugo Bertocci**

*Research Chemist*

*Institute for Materials Science and  
Engineering  
National Institute of Standards and  
Technology*

Drs. Pugh and Bertocci are recognized for significantly advancing understanding of stress corrosion cracking, a serious industrial problem which occurs in all engineering alloys, inflicting a severe economic penalty and posing a continuing threat to safe operation. Their recent research has demonstrated that failure occurs by discontinuous cleavage rather than electrochemical dissolution as was previously supposed, and has had a major influence on the direction of research in this important field.

## **William P. Reed**

*Deputy Chief, Office of Standard Reference Materials*

## **John A. Norris**

*Research Chemist*

*National Measurement Laboratory  
National Institute of Standards and  
Technology*

Messrs. Reed and Norris, in cooperation with one of our country's most technologically advanced steel-making companies, applied a technology not previously used to make steel Standard Reference Materials. The new technology, vacuum induction melting—vacuum arc remelting, produced reference materials that will have a significant role in quality assurance programs of American Steel producers and users well into the 21st century.

## **Reactor Operations Group**

*Institute for Materials Science and  
Engineering  
National Institute of Standards and  
Technology*

The Reactor Operations Group is recognized for excellence in the operation of the NIST Research Reactor. Through their skill and dedication to not only the operation, but also the maintenance and continuing improvement of the facility, they have compiled an outstanding record of safety and reliability, at a lower cost than for any comparable reactor. The research made possible by their efforts has made major contributions to Departmental and National goals.

**Miles E. Smid**

*Supervisory Mathematician*

*National Computer Systems Laboratory  
National Institute of Standards and  
Technology*

Mr. Smid is recognized for exceptional contributions to NIST's Computer Security program. These contributions include the development of numerous national security standards, conduct of network security research, and development of innovative conformance testing methods. His efforts have resulted in the protection of electronic funds transfers worth trillions of dollars in both Federal and commercial applications.

**Richard G. Bakkala**

*Supervisory Fishery Biologist*

*National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration*

Mr. Bakkala is recognized for conducting pioneering research on the groundfish resources of the Bering Sea. His studies represent a major contribution to fishery science, providing a cornerstone for the understanding of the biology and population dynamics of those stocks. His findings were critical to the U.S. in the negotiation of bilateral fishery agreements with foreign countries and are now invaluable in the management of a United States fishery.

**James V. Brosh**

*Chief Engineer (Watch)*

*NOAA Corps Operations  
National Oceanic and Atmospheric  
Administration*

Mr. Brosh is recognized for exceptional courage and heroism in fighting an engine fire on board the NOAA Ship OREGON II on March 16, 1989. At much risk to his life, he entered a smoke-filled engine room to make sure it was clear of personnel before discharging carbon dioxide into the area. He later personally directed Mobile, Alabama, fire department firefighters in extinguishing the blaze. His actions were credited with limiting the damage and saving the ship.

**Dennis M. Decker**

*Meteorologist*

*National Weather Service  
National Oceanic and Atmospheric  
Administration*

Mr. Decker is recognized for launching a comprehensive severe weather preparedness program in North Carolina following a disastrous tornado outbreak in 1984. He trained more than 3,500 volunteer severe weather spotters, including amateur radio Skywarn Networks. He provided severe weather safety information and conducted tornado drills in schools statewide. His work was cited as a major factor that contributed to the remarkably low death toll in the devastating tornado of November 28, 1988.

**Atef A. Elassal**

*Chief, Photogrammetric Technology Programs*

*National Ocean Service  
National Oceanic and Atmospheric Administration*

Dr. Elassal is recognized for his outstanding design, development and implementation of the theory for the Integrated Digital Photogrammetric Facility (IDPF). The IDPF is being developed in response to defined requirements for photogrammetric source data in digital form and in recognition of the need for standardized algorithms and procedures in photogrammetric processing. The complete certified system is currently in production on newly acquired analytical plotters.

**Gary K. Grice**

*Assistant Chief, Meteorology Services Division*

**Kenneth W. Howard****Stanley L. Barnes****Charles A. Doswell, III**

*Meteorologists*

*Oceanic and Atmospheric Research  
National Oceanic and Atmospheric Administration*

Messrs. Grice and Howard and Drs. Barnes and Doswell are recognized for meritorious authorship and editing associated with *A Guide for Operational Meteorological Research*. The authors produced the definitive reference for applied research with the domain of operational meteorology. Their accomplishment has enhanced the quantity and quality of applied research in operational meteorology and will continue to do so as advanced data systems are implemented within NOAA during the next decade.

**Mary M. Heffernan****Edward R. Johnson**

*Branch Chiefs*

*National Weather Service  
National Oceanic and Atmospheric Administration*

Ms. Heffernan and Dr. Johnson were key members of a task team charged with defining many aspects of future weather services. They made outstanding contributions to the development of operations concepts and specifications of hydrometeorological service requirements for a next generation information processing system. Their work is fundamental to understanding Weather Service operational needs in the 1990s and plays a pivotal role in transition strategies.

**Milan A. Kravanja**

*Chief, Foreign Fisheries Analysis Branch*

*Office of International Affairs  
National Oceanic and Atmospheric Administration*

Mr. Kravanja has built a small and internationally recognized unit which produces highly regarded analyses of international fisheries. His work has played critical roles in key negotiations with foreign countries including governing international fisheries agreement negotiations; expanded cooperation with Mexico; sensitive trade and resource negotiations with Japan, Korea, and Canada; and marine mammal negotiations with whaling countries.

**Ronald C. Lundstrom**

*Research Food Technologist*

*National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration*

Mr. Lundstrom is recognized for his initiative and dedication in establishing a Monoclonal Antibody/Biotechnology Program at the Northeast Fisheries Center. Monoclonal antibody technology applied to problems related to the marine environment and fisheries is providing new methods of monitoring pollutants, diseases, and potential public health hazards rapidly and inexpensively compared to standard laboratory techniques.

**E. Paul McClain**

*Physical Scientist*

*National Environmental Satellite, Data,  
and Information Service  
National Oceanic and Atmospheric  
Administration*

Dr. McClain is recognized for his exceptional contributions to the development of methods for determining ocean temperatures from space. He realized, at an early stage, the necessity for multichannel observations to properly correct for water vapor contamination of the ocean temperature signal. His recommendations were implemented on the Advanced Very High Resolution Radiometer.

**Edward J. McKay**

*Chief, Vertical Network Branch*

*National Ocean Service  
National Oceanic and Atmospheric  
Administration*

Mr. McKay is recognized for outstanding professionalism and dedication in initiating and implementing National Geodetic Survey technology transfer activities. Specifically, he has initiated and participated in crucial geodetic user workshops and provided exceptional technical leadership in responding to this user community. Mr. McKay's superior leadership of NGS' Technology Transfer Program has resulted in substantial improvements in program effectiveness and quality of the Department's service.

**Roy Mendelssohn**

*Operations Research Analyst*

*National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration*

Mr. Mendelssohn is recognized for developing several innovative mathematical methods, new to fisheries science, and applying them to solve key fisheries problems; and for developing important new insights into how fish populations respond to variability in their environment. His work has significantly increased our knowledge of environmental factors that affect the distribution and abundance of valuable living resources, and provided us powerful methods to expand and apply this knowledge to better protect, manage and utilize these resources.

**Earl F. Prentice**

*Supervisory Fishery Biologist*

*National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration*

Mr. Prentice is recognized for his pioneering scientific work in developing the miniature Passive Integrated Transponder tag for fish. This revolutionary internal tag allows biologists and fisheries managers to track the movement of tagged fish throughout their life. Scientific information gathered using the tag will result in the savings of millions of salmon and steelhead at Federal hydroelectric projects in the Pacific Northwest.

**Arthur Schwalb**

*Chief, Space Systems Division*

*National Environmental Satellite, Data,  
and Information Service  
National Oceanic and Atmospheric  
Administration*

Mr. Schwalb is recognized for contributions to the Nation's weather forecasting and warning capabilities by his diligence and oversight of the procurement and development of NOAA's environmental satellites. His broad spacecraft engineering skills and specific knowledge of user requirements have enabled him to provide major technical contributions and engineering guidance towards the development of instruments, data collection and broadcast systems.

**Robert C. Sheets**

*Director, National Hurricane Center*

**Robert A. Case**  
**Gilbert B. Clark**  
**Harold P. Gerrish**  
**James M. Gross**  
**Miles B. Lawrence**  
**B. Max Mayfield**  
*Hurricane Specialists*

*National Weather Service  
National Oceanic and Atmospheric  
Administration*

Dr. Sheets and the NHC Hurricane Specialists are recognized for providing the Nation with one official source of continuous credible information during Hurricane Gilbert, the Atlantic Basin's most powerful hurricane. Watches, warnings, and forecasts were posted with remarkable lead times and incredible accuracy. Four hundred and fifty television and radio interviews heightened public awareness. These actions enabled Texas emergency managers and coastal residents to rapidly respond to the threat.

**Wilbur T. Shigehara**

*Meteorologist in Charge*

*National Weather Service  
National Oceanic and Atmospheric  
Administration*

Mr. Shigehara is recognized for making outstanding contributions to the Weather Service mission of providing timely weather warnings for the protection of the agricultural industry in southern California. He is especially recognized for his extraordinarily accurate long range freeze warnings in San Diego County during December 1987. These warnings provided farmers the time to adequately prepare for the record cold, thus avoiding an economic disaster that would have had National implications.

**George W. Swearingen**  
*Senior Electronics Technician*

*National Weather Service  
National Oceanic and Atmospheric  
Administration*

Mr. Swearingen is recognized for his actions in saving the lives of two men thrown from their boat on Palo Pinto Lake near Stephenville, Texas. Avoiding the unmanned boat which was circling the accident area under full power, he pulled the men from the water, saw to their safety, and then assisted the authorities in the recovery of a third boater who had drowned.

**Robert T. Adair**  
*Group Chief*

**David F. Peach**  
*Electronics Engineer*

*National Telecommunications and  
Information Administration*

Messrs. Adair and Peach are recognized for outstanding technical leadership and contributions in promoting communications interoperability among automated high frequency (HF) radio systems and enhancing the survivability of long-haul fiber optic transmission systems. Their contributions are of major economic and technical importance in greatly improving the design and operation of national telecommunication systems, including those affecting national defense.

**Dennis R. Connors**  
*Director*

**Jean E. Adams**  
*Supervisory Electronics Engineer*

**Joann C. Anderson, Ph.D.**  
**Richard P. Harland**  
*Communication Program Specialists*

*National Telecommunications and  
Information Administration*

Messrs. Connors, Adams, Harland and Dr. Anderson are recognized for outstanding expert contributions to the management, research and editing of a unique report which provides an important resource for those interested in public broadcasting. The report constitutes the first identification of technologies that might bring public radio and television broadcast to unserved areas (especially rural areas) in a cost effective manner.

**James T. Vorhies**  
*Communication Management Specialist*

*National Telecommunications and  
Information Administration*

Mr. Vorhies is recognized for his development of a mobile satellite service (MSS) policy that addresses the complex issues of sharing between the MSS safety services and the non-safety services. He has made outstanding contributions to the development of a U.S. strategy for implementing the MSS both domestically and internationally. Through his leadership, Mr. Vorhies has effectively developed a consensus on the MSS issues that allowed the U.S. to provide a unified approach internationally.

**Charles M. Hall**

*Assistant Inspector General for  
Inspections and Resource  
Management*

*Office of Inspector General*

Mr. Hall is recognized for outstanding leadership and managerial skills, which have resulted in dramatic improvements to the overall effectiveness and productivity of the Office of Inspector General and the Department. His remarkable talent and energy have been motivating forces in improving systems, products, and programs while conserving limited resources.

**Carl S. Klein**

*Supervisory Auditor*

*Office of Inspector General*

Mr. Klein's technical expertise, professionalism and leadership in managing audits of grants, loans, and loan guarantees, plus his tenacity in the audit resolution process have resulted in audit savings of \$49 million since 1986. Mr. Klein has demonstrated exceptional knowledge of audit standards and ability to manage concurrently complex audits and maximize staff performance.

**Irene E. Lewkowicz**

*Director, Science and Trade Division*

*Office of Inspector General*

Ms. Lewkowicz is recognized for outstanding leadership, technical expertise, and innovative approaches in managing audits of loans and loan guarantees. As a result of her efforts, the OIG has been instrumental in helping Commerce agencies obtain large recoveries on delinquent loan balances. In addition, her work

enabled the Department to avoid paying millions of dollars to cover defaulted loans made by commercial lenders who failed to properly administer agency-guaranteed loans.

**Howard N. Goldberg**

*Supervisory Patent Examiner*

*Patent and Trademark Office*

Mr. Goldberg has demonstrated exceptional leadership contributing significantly to major Departmental goals involving the reduction of patent pendency and improvement of quality. He extended his effective leadership to the successful completion of critical PTO projects. These included a major role in the establishment of new Examining Group 180, as well as the effective management of the PTO search file maintenance contract-both with high impact on the effective operation of the Office.

**Stewart J. Levy**

*Supervisory Patent Examiner*

*Patent and Trademark Office*

Mr. Levy has demonstrated outstanding ability in examining patent applications and supervising the operations of his Art Unit. His leadership has resulted in improved productivity and a substantial pendency reduction of patent applications. His Art Unit was the first in Group 260 to have attained the Congressionally mandated goal of 18 months for patent pendency while providing a high level of quality service to the public.

## EXTERNAL AWARD RECIPIENTS

### Interagency Committee on Information Resources Management Award for Technical Excellence

#### **Roger J. Martin**

*Supervisory Computer Scientist*

*National Computer Systems Laboratory  
National Institute of Standards  
and Technology*

Mr. Martin was honored for his outstanding achievements which stem from his creativity, technical competence, and professionalism in leading the development, acceptance, and implementation of the Federal Information Processing Standard for Portable Operating System Interface for Computer Environments (POSIX).



#### **Leonard J. Gallagher**

*Computer Scientist*

*National Computer Systems Laboratory  
National Institute of Standards  
and Technology*

Dr. Gallagher was honored for his outstanding contributions in the development and standardization of the database language Structured Query Language (SQL). Through Dr. Gallagher's diligent efforts, leadership and negotiation skills, and technical knowledge, a single SQL standard is now available in the Federal government and throughout the world.



## Outstanding Federal Employees with Disabilities Award

### **Mark C. Sakaley**

*Equal Employment Specialist*

*Office of Personnel and Civil Rights*

Mr. Sakaley was recognized for his contributions as the Department's Handicapped Program Advisor and Partnerships in Education Coordinator.

Mr. Sakaley serves as liaison for Commerce with numerous national and disability related consumer/advocacy groups as well as other agencies, and contributed to the formulation of national disability policy.



## Department of Treasury's Award for Distinction in Credit Management

### **Michael S. Oberlitner**

*Director, Liquidation Division*

### **John D. McClure**

*Financial Analyst*

*Economic Development Administration*

### **George E. Maden** (Not pictured)

*Chief, Commercial Litigation Division*

### **Charles Moster**

*Attorney Advisor*

*Office of the General Counsel*



Messrs. Oberlitner, McClure, Maden, and Moster were selected as a group, for their efforts in successfully orchestrating the collection of \$91.9 million and the charge of \$85.7 million. This impressive joint effort was achieved in connection with the liquidation of the Economic Development Administration's Steel Loan projects.

**Department of Treasury's Award for  
Distinction in Cash Management**

**Richard Green**

*Chief, Financial Management Division*

*Office of Finance and Federal  
Assistance*

Mr. Green was recognized for his involvement in four major areas of cash management improvement that resulted in substantial interest and other savings to the Federal Government. These four areas were (1) Financial evaluation of the Bankcard program for making small purchases, (2) expanding the use of credit cards for collections, (3) coordinating reduction in imprest funds throughout the Department, and (4) participation in a major promotion of the Diners' Club card in cooperation with Citicorp.



## DEPARTMENT'S INCENTIVE AWARDS BOARD

**John M. Golden**

Director for Personnel and Civil Rights  
Chairman of the Board

**Roland H. Moore**

Associate Director for Field Operations  
Bureau of the Census

**Raymond G. Kammer**

Acting Director  
National Institute of Standards  
and Technology

**Elbert W. Friday, Jr.**

Assistant Administrator for Weather Services  
National Oceanic and Atmospheric  
Administration

**Frederick T. Knickerbocker**

Executive Director  
Office of Economic Affairs

**Marilyn G. Wagner**

Assistant General Counsel for Administration  
Office of the General Counsel

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

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Bill Parent

and other Office of Personnel Staff

Incentive Awards Program Officers of the Department:

Loretta Cole—FCS  
Linda Feducia—PTO  
Natalie Huff—ITA  
Golden Mayberry—O/S  
Azalea Nunnally—OIG  
Joan Schneider—NIST  
Claudia Schwalm—CENSUS  
Elaine Walker—NOAA  
and their valuable assistants

First U.S. Army Band  
Armed Forces Color Guard  
Office of Publications  
Office of Real Property Programs  
Office of Security

