

**34<sup>th</sup> Annual  
Honor  
Awards  
Program**

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# Program

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**November 9, 1982 / 11:00 A.M.**  
**Department of Commerce Auditorium**  
**Herbert C. Hoover Building**

Fourteenth Street between E Street  
and Constitution Avenue N.W.  
Washington, D.C.

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Music	The Langley High Jazz Lab
Introduction	Arlene Triplett Assistant Secretary for Administration
Presentation of Colors	Joint Armed Forces Color Guard
National Anthem	Band
Address	Malcolm Baldrige Secretary of Commerce
Announcement of Awards	Guy W. Fiske Deputy Secretary
Presentation of Silver Medals	Secretary Baldrige assisted by Departmental Officials
Music Selection	Band
Presentation of Gold Medals	Secretary Baldrige assisted by Departmental Officials
Closing Remarks	Guy Fiske Deputy Secretary

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## Message from the Secretary

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One of the fine traditions in the Federal Government is recognition of outstanding achievement by dedicated civil servants. We are reminded that beyond such things as organizational charts, statistical analyses and management techniques is something even more important: people. It takes people, not just programs, to make Government work for our fellow citizens.

The women and men we honor today have demonstrated the qualities we seek. Their leadership, high standards and creativity set an example of excellence for all of us.

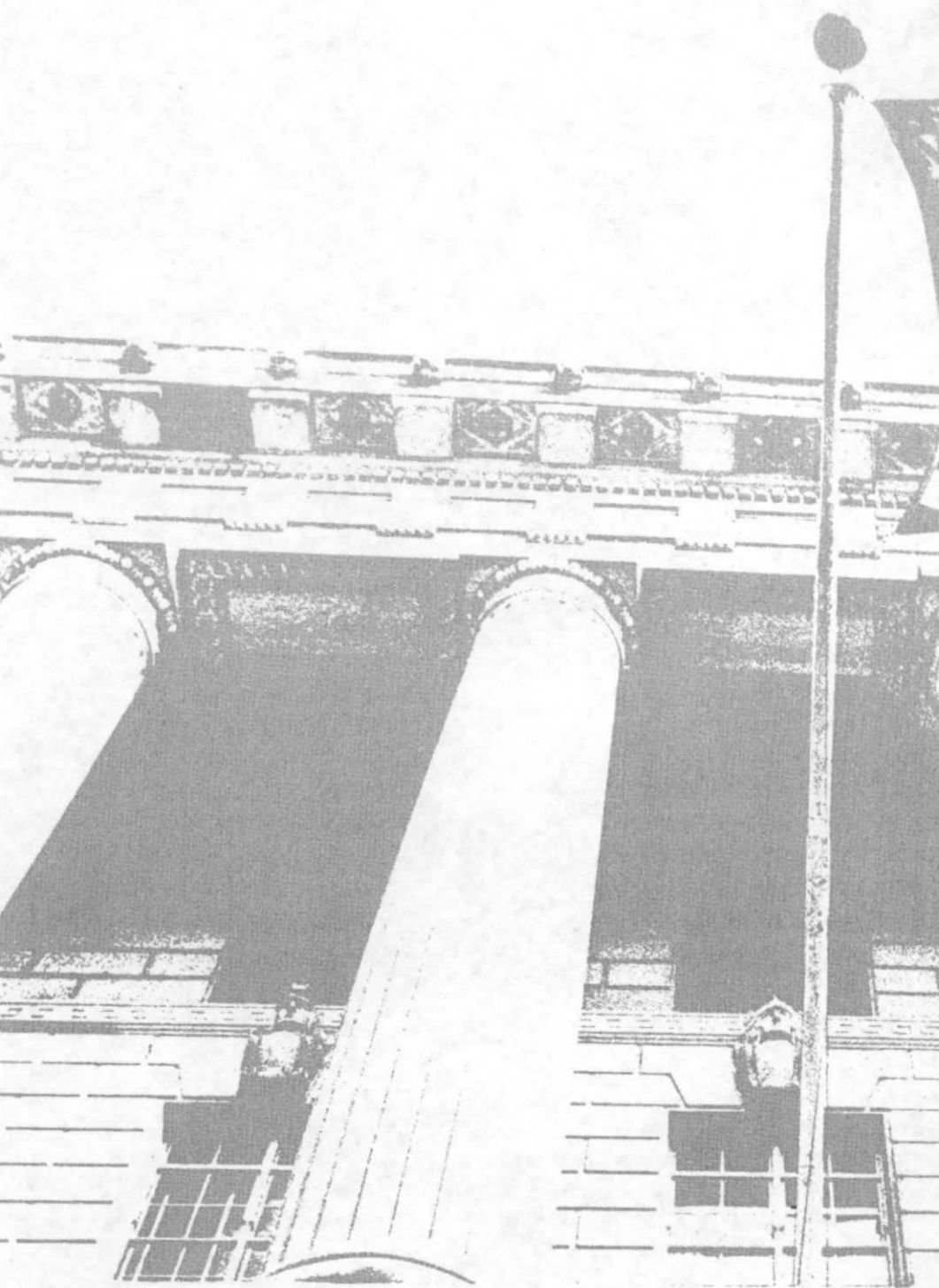
In this time of great challenge for our country, we in the Commerce Department have been given new responsibilities to help solve difficult problems involving the Nation's economic and technological performance. The initiative and energy with which Commerce employees are meeting this challenge testifies to their devotion to the well-being of the American people.

We salute them all, with special recognition for the 1982 Gold and Silver Medal Award winners. You are setting the pace and we wish you every success in the future.

*Malcolm Baldrige*

**The Secretary of Commerce**





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## **Gold Medal Award Winners**

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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, or the Nation.





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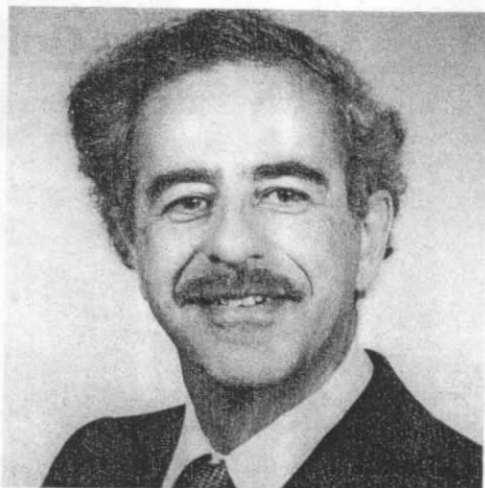
**Carol S. Carson**

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*Chief, Current Business Analysis Division  
Bureau of Economic Analysis*

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Mrs. Carson is recognized for highly distinguished authorship and editorship in her work on the U.S. economic accounts. Prepared by BEA, these accounts are the major tool for macroeconomic decisionmaking and a key element in the Department's program to provide economic information. Mrs. Carson has made outstanding contributions in explaining the concepts underlying the accounts. Using the accounts as framework, she writes the *Survey of Current Business's* lead article, which is the Department's major published analysis of shortrun economic developments. Alert to emerging economic problems, she adapts the article to keep abreast of them. As *Survey* editor, she serves as research director and raises the quality of articles to levels of excellence. Last March, as the U.S. expert, she participated in meetings of a United Nations Expert Group discussing the future of the System of National Accounts. This UN-sponsored system is an international guide for the development of economic accounts. She reserved the May *Survey* for presentation of a system integrating national income and product and financial accounts. She planned the issue and wrote key parts; the results will greatly advance economic accounting and analysis here and abroad.



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**Frank de Leeuw**

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*Chief Statistician  
Bureau of Economic Analysis*

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Mr. de Leeuw is recognized for major contributions to the Department and the Nation through highly distinguished authorship in econometrics, a technique that arrives at quantitative conclusions by combining economic theory, mathematics, and statistics. His studies have dealt with a wide variety of subjects, including the supply and utilization of industrial capacity, the impact of the Federal income tax on investment in housing, the determinants of business investment, and the impact of fiscal policy on economic activity. These studies have greatly improved the diagnosis and therapy of many of the most important economic problems that confront the Nation and that require the attention of the Department. Mr. de Leeuw's studies are extraordinarily original and discriminating. They are unique in that they are written in a simple and direct style that makes their essence understandable to economists who are not econometricians and also to policymakers.



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**Richard L. McElheny**

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*Director General, U.S. & Foreign  
Commercial Service*

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**Gayle C. Shelton, Jr.**

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*Director, Birmingham District Office  
International Trade Administration*

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Messrs. Richard L. McElheny and Gayle C. Shelton, Jr. are recognized for their outstanding contributions and leadership in the field of Federal management and administration. Under the provisions of the Civil Service Reform Act of 1978, they have successfully developed and implemented a Management Planning and Performance Appraisal System for the U.S. and Foreign Commercial Service that defines and coordinates organizational objectives, individual responsibilities, and integrated reporting procedures with uniform standards for performance appraisal. The System combines into one simple cohesive process fiscal year accountability, the requirements for organizational planning, the Department's MBO System, the budget process, the Senior Executive Service, Merit Pay and General Work Force Performance Appraisal Systems and provides an objective basis for measuring both organizational achievements and individual accomplishments. This is regarded as a rather unique feature rarely encountered in Federal management practices and procedures.

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**Calvin C. Berlin**

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*Commercial Counselor*

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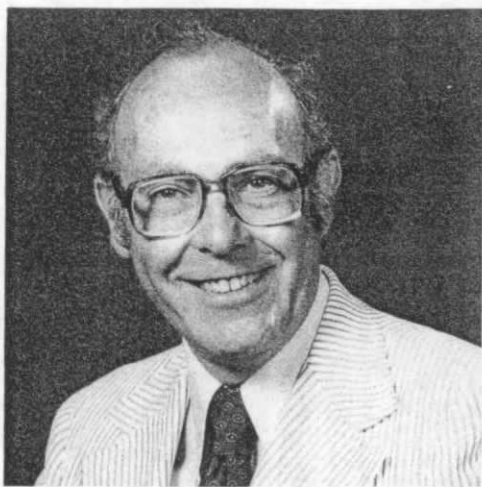
**Stanley P. Harris**

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*Commercial Attaché  
Foreign Commercial Service—London*

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Messrs. Calvin C. Berlin and Stanley P. Harris have demonstrated outstanding management and exceptional innovative leadership in developing and streamlining the complex Foreign Commercial Service operations in London into an effective export promotion office, a model for other FCS posts worldwide. They have achieved these results by applying modern technology to FCS programs, including the imaginative use of word processing and computers and at the same time saved money and time, and voluntarily reduced personnel staffing. Through imaginative adaptation of traditional or new techniques, the post, under their leadership, has achieved outstanding results in commercial services, efficiency and promotion of U.S. business opportunities in Britain. As one example of their effectiveness, the unit produced 1600 new trade opportunities in the first six months of this fiscal year compared with 1200 for all of 1981 (itself a record). Additionally, the work done on word-processing and data processing in the London FCS operations alone will continue to pay dividends for a long time to come.



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**John W. Cahn**

*Metallurgist  
National Measurement Laboratory  
National Bureau of Standards*

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Dr. Cahn is recognized for major achievements in the theory of materials stability and kinetics. Particularly notable have been his studies of interface and the thermodynamic rules governing stable and metastable alloys. He established the existence of new phenomena resulting from diffusion-induced grain boundary migration, important for alloy coatings, precipitation processes and electrical contacts for semiconductor devices. His analysis of the thermodynamic and kinetic rules governing the alloy phases that can be formed during rapid solidification has provided greatly increased understanding of the equilibrium and non-equilibrium effects governing this innovative new area of technology. His special expertise has played a key role in NBS phase diagram studies, analyses of solid state phase transformations, and overall studies in physical metallurgy.



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**Judah Levine**

*Physicist  
National Measurement Laboratory  
National Bureau of Standards*

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Dr. Levine is recognized for his major contribution to time metrology and NBS and International Atomic Time. Dr. Levine developed a new computer algorithm for time computation, a significant advance in both the analysis of clock performance and in providing useful outputs for NBS scientists and the NBS user community. His contribution improved the performance of the time scale and the quality of the data that NBS provides to the International Time Bureau for the International Atomic Time Scale. As a result, NBS is able to make significant contributions to international atomic time while investing minimal resources in expensive atomic clocks. In 1981, Dr. Levine assumed the responsibility for developing the operating system for the real time data acquisition of atomic clock data. The result is the world's most advanced clock measurement system. A worldwide symposium on time scale algorithms was held in June 1982 and Dr. Levine's work was the highlight of the Conference.





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**Sheldon M. Wiederhorn**

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*Group Leader, Fracture of Ceramics  
and Composites  
National Measurement Laboratory  
National Bureau of Standards*

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Dr. Wiederhorn is recognized for his major contributions to the science of ceramic and glass durability. His contributions in mechanical properties, including slow crack growth, lifetime predictions using fracture mechanics, proof-testing techniques, erosion and wear have led to international recognition. His research significantly improved ceramic performance in new technologies such as coal conversion systems, and fiber optics and improved understanding of the fracture of glass. He developed new measurement techniques for assessment of the mechanical properties of brittle materials. He manages an internationally-recognized staff conducting experimental and theoretical research on the fracture of brittle materials. He has been recognized for his advisory role in program formulation by the Army Research Office, Department of Energy, National Research Council, and the Advisory Group for Aerospace Research and Development. He has produced more than 80 technical publications, many in collaboration with other leading industrial and university ceramic scientists.



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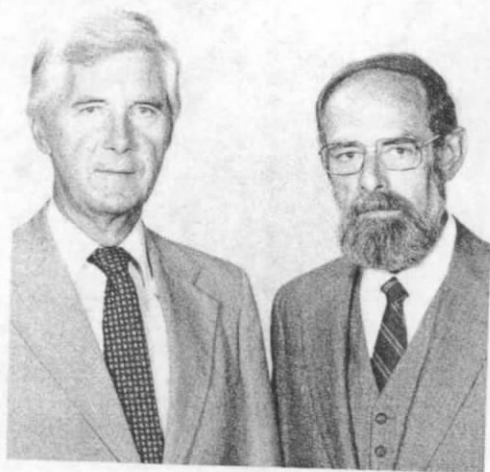
**Richard N. Wright, III**

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*Director, Center for Building Technology  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Wright is recognized for his outstanding restructuring of the Center for Building Technology which gave NBS the flexibility to pursue solutions to the causes of such structural failures as the collapse of the walkways in the Kansas City Hyatt Regency Hotel in July 1981. Because of his reorganization and foresights in establishing a failure investigation program, Dr. Wright was able to respond immediately to the congressional request for assistance to Kansas City. He oversaw all aspects of the Hyatt Regency investigation—he guided the research plan, provided technical input in its developments, and was responsible for ensuring that NBS' findings were presented in a clear unequivocal manner. Senator Eagleton expressed his admiration for NBS and its exemplary response to the investigation and praised Dr. Wright for his personal contributions. The success of this program can be attributed directly to Dr. Wright's unique technical skills and managerial expertise.



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**Richard D. Marshall**

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*Leader, Structural Engineering Group*

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**Edward O. Pfrang**

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*Chief, Structures Division  
National Engineering Laboratory  
National Bureau of Standards*

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Drs. Marshall and Pfrang are recognized for their outstanding investigation of the Kansas City Hyatt Regency Hotel walkways collapse. They conducted the investigation in such an exemplary manner that the public, the press, and the professional community have bestowed upon the Department of Commerce and the National Bureau of Standards unusually high praise for the impartiality and technical excellence of the investigation. As a result of Dr. Marshall's and Dr. Pfrang's investigation into the Hyatt Regency walkways collapse, building code officials, professional engineers, and architects throughout the United States are reevaluating their procedures for assuring safety of building occupants during and following construction.



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**Louis J. Boezi**

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*Director, Advanced Systems Laboratory  
National Weather Service  
National Oceanic and Atmospheric  
Administration*

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Mr. Boezi led the task force that successfully identified and resolved serious development problems in a complex program to automate and improve critical operations at 200 National Weather Service field offices across the country. He selected and organized an interdisciplinary group of more than 80 scientists, engineers, computer analysts, and support personnel in a project to complete the development, testing and field preparations for national implementation of the system. He formulated and documented project plans, introduced formal tracking and review techniques, and structured testing and other systems disciplines. Significant design improvements were conceived, developed, and validated. Operational procedures and training were given increased emphasis. He achieved broad consensus on program strategy and created a basis for confidence in the system and credibility of the program. Realistic schedules and expectations were established. All established performance criteria were surpassed, on schedule, in a formal operations demonstration. The new system radically changes the field operations of the National Weather Service.



**John D. Bossler**

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*Director, National Geodetic Survey  
National Ocean Survey  
National Oceanic and Atmospheric  
Administration*

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Capt. Bossler is recognized for his outstanding service to the Nation and the international scientific community in the field of geodetic science. He demonstrated outstanding technical ability and management expertise as Project Manager for the New Adjustment of the North American Datum (NAD). The NAD will update over 200,000 geodetic control points in the horizontal control network to meet modern accuracy requirements with high priority, including national defense. The only previous adjustment was in 1927, when the network contained only a small fraction of the present number of control points. Through Capt. Bossler's leadership and technological innovations, methodology was developed to solve the largest system of linear equations ever attempted. Under Capt. Bossler's direction, leading geodetic Scientists from 17 nations were brought together in an international symposium to develop consensus on technical procedures for the new adjustment. The contributions by Capt. Bossler to geodetic science will insure that the international geodetic leadership position of the National Geodetic Survey is maintained.



**Eldon E. Ferguson**

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*Director, Aeronomy Laboratory  
Environmental Research Laboratories  
National Oceanic and Atmospheric  
Administration*

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Dr. Ferguson is recognized for his outstanding scientific and administrative leadership as Director of the Aeronomy Research Laboratories. When the impending threat to the stratospheric ozone layer from aircraft emissions and chlorofluoromethanes became a national issue, a total reordering of priorities and restructuring of research programs was initiated under Dr. Ferguson's leadership, building on the existing base of expertise and personnel. This was accomplished within a remarkably short time and under severe budget constraints, and resulted in the Laboratory rapidly becoming one of the world's leading sources of information on the critical problems of stratospheric composition. The data obtained by the Laboratory was a major factor in the National Academy of Sciences' recommendations that led to important legislative regulation of chlorofluorocarbons.





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### **Roland Finch**

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*Acting Director, Office of Resource  
Conservation and Management  
National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration*

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Mr. Finch made outstanding contributions in drafting, policy determination, and implementation of the Magnuson Fishery Conservation and Management Act (Magnuson Act). He displayed originality and resourcefulness in developing criteria and procedures for the preparation of fishery management plans (FMPs) and for the Secretarial review and approval or disapproval of FMPs; his approach was accepted by the Congress and Regional Fishery Management Councils, thus obviating the need for amendments to the Magnuson Act that would have seriously crippled that Act's effectiveness. His innovative interpretation of the concept of "optimum yield," now the keystone of all FMPs, has been accepted by all Councils, many State agencies, and some foreign countries. Mr. Finch's forte also is in the development of effective and efficient processes to implement the Act concurrently with "other applicable law." His ability to assemble and train a highly competent and dedicated staff to carry out the complex and sophisticated plan review tasks is a further reflection of Mr. Finch's superior organizational and management skills.



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### **Dieter Kley**

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*Senior Research Chemist  
Environmental Research Laboratories  
National Oceanic and Atmospheric  
Administration*

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Dr. Kley is recognized for his outstanding pioneering contributions to the atmospheric sciences. In particular, he has developed innovative ultrahigh-sensitivity detectors for trace atmospheric species, applied these instruments in pioneering field experiments, and used the results to solve key problems in the understanding of the photochemistry and transport in the earth's lower atmosphere. Not only has Dr. Kley's research made major contributions to NOAA's programs, but these landmark studies have made an important and enduring impact on the atmospheric sciences, leading to his pre-eminence in his field. In addition to his water-vapor investigations, Dr. Kley has made a landmark discovery about the distribution of the nitric oxides in the troposphere, using instruments of unparalleled sensitivity developed by him and his colleagues. Airborne measurements revealed that the currently accepted nitrogen-oxide distributions had to be modified considerably. Since the human-made nitrogen oxides play a critical role in controlling tropospheric ozone, these findings have wide-ranging implications for inadvertent human alteration of the global radiation balance and climate.



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**Donald C. Malins**

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*Supervisory Research Chemist  
National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration*

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Dr. Malins has made major breakthroughs in important areas of science. His chromatographic methods for lipid analysis are used by scientists worldwide, and he has contributed fundamental advances in understanding sound processing in porpoises. He has established himself as the world's leading authority on the nature and effects of pollutants in the marine environment. His two-volume book, "Effects of Petroleum on Arctic and Subarctic Marine Environments and Organisms," serves as a standard source of information worldwide on the subject, and one of his over 100 quality articles was recently proclaimed a "citation classic" by the highly regarded Institute for Scientific Information. With his outstanding leadership and dedication, the Environmental Conservation Division has become an extremely effective research team, highly respected worldwide for contributions to marine pollution research. Because of his excellent reputation, he is increasingly sought after by marine resource decisionmakers to present testimony, participate in advisory groups, and contribute to local and national scientific and policy decisions on the marine environment.



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**Bradford R. Huther**

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*Assistant Commissioner for Finance and  
Planning  
U.S. Patent and Trademark Office*

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Mr. Huther is recognized for his rare and distinguished service which has enabled the U.S. Patent and Trademark Office to carry out its responsibilities more efficiently and effectively. His exceptional initiative and leadership capabilities, outstanding technical competence, and extraordinarily effective communication skills have had profound impact on improving the administrative process and services to the public. He has applied advanced technology and sound judgment to the resolution of a wide variety of issues leading to substantial savings to the Government while, at the same time, increasing the quantity and quality of services. He has been instrumental in establishing plans for automating the patent and trademark processes and for funding programs through user fees. His accomplishments have been broad in scope and of considerable significance to the U.S. Patent and Trademark Office, the U.S. Department of Commerce, and the public.



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**Margaret M. Laurence**

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*Assistant Commissioner for Trademarks  
U.S. Patent and Trademark Office*

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Mrs. Laurence has demonstrated outstanding administrative ability in improving trademark operations at the U.S. Patent and Trademark Office. Applying her administrative skill and creativity, she has built the staff, instituted the changes, and established the momentum necessary to meet on schedule in 1985 Departmental goals for improving trademark operations. This award is presented in appreciation and as suitable recognition for Mrs. Laurence's extraordinary achievement in turning around trademark operations and for the steps she has taken to establish a first-class trademark organization. The results of her actions will be seen in better protection for business investments and better protection of consumers from deception and fraud.



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**James O. Thomas**

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*Group Director*

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**Werner H. Schroeder**

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*Supervisory Patent Examiner  
U.S. Patent and Trademark Office*

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Messrs. Thomas and Schroeder have demonstrated outstanding technical ability and resourcefulness by making rare and distinguished contributions of major significance to the U.S. Department of Commerce and the U.S. Patent and Trademark Office. They designed, developed, and implemented a revolutionary coordinated system of distributed word processors with stored oft-used form paragraphs. The system is capable of on-site data pre-processing and spelling corrections. It is additionally capable of interoffice communications via telephone lines, enabling direct communication to inventors and patent practitioners. The system is the largest of its kind in the Nation, processing more than 200,000 Office letters annually. More than \$1 million annually has been saved. The system has already gained recognition from both the public and private sectors and has enhanced the effective operation of the U.S. patent system.





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## **Silver Medal Award Winners**

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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.





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**Angela T. Barbato**

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*Supervisory Survey Specialist  
Bureau of the Census*

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Mrs. Barbato has shown outstanding managerial ability supervising the collection of data for the Current Population Survey in the Boston Regional Office of the Census Bureau. Her management of this survey has saved in excess of a quarter million dollars for the data collection during the current and last fiscal years. These cost savings were accomplished by her personal management of the 160 interviewers assigned to the data collection of approximately 7,100 households per month. Her response rate, error rate, and production are consistently the best in the country. She has contributed to the improved effectiveness, efficiency, and economy of the data collection by her superb managerial ability and strengthened the role of Government in data collection.

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**Joseph J. Sferrella**

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*Assistant Division Chief for Hardware  
Support  
Bureau of the Census*

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Mr. Sferrella has demonstrated outstanding technical leadership and has made distinguished contributions to automated data processing (ADP) in the area of computer hardware reliability, especially in conceiving and applying innovative configuration solutions to meet critical processing requirements. Through ingenious application of his unique knowledge and skills, an operationally reliable and efficient computer complex is in use at the Bureau of the Census. It is this computer complex which has produced so many timely and serviceable measures of our socio/economic activity, measures that are a vital part of the Nation's major decisionmaking process. He has contributed to the improved effectiveness, efficiency, and economy in the use of computers for data collection and strengthened the Government's role in the ADP field.

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**Robert V. Coleman**

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*Acting Director  
Automotive Equipment Division  
Bureau of Industrial Economics*

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Over the last 5 years Mr. Coleman has played a key role in matters affecting the automotive industry. The press and Government and industry speakers regularly quote from his Motor Vehicle chapter in the U.S. Industrial Outlook. In the field of regulatory analysis, he authored Departmental comments on proposed standards for fuel economy, gaseous and particulate emissions, and "front loaded" standards. Following announcement of the President's automotive industry assistance package, he organized and led a team which has effectively supported the President's program while continuing to support other Agencies on automotive matters.

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**Dennis J. Polivka**

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*Chief, Accounting Division  
Economic Development Administration*

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Mr. Polivka has demonstrated outstanding performance in guiding the development and implementation of a new automated business loans management information system which integrated accounting and program data for the first time in the Agency's history. Reports derived from this system allow comparisons and quality ratings of EDA loans as well as provide early warning on loans which develop problems. His leadership was essential in spearheading a financial management system to handle the \$6 billion Local Public Works Program. This system efficiently handled 10,000 projects and provided maximum protection of Federal funds. Mr. Polivka's other primary accomplishment has been the development of a finance and accounting productivity survey which was approved in 1981 for use throughout the Federal Government.

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**John Boidock**

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*Director, Scientific and Electronics  
Equipment Division  
International Trade Administration*

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Mr. Boidock exemplifies the ideals of leadership, perseverance, and hard work. He assumed the responsibility of reducing the huge backlog of computer cases which existed in the Office of Export Administration. His knowledge of computers enabled him to complete this seemingly impossible task. As Chairman of the Technical Working Group on Semiconductors, Mr. Boidock rejuvenated this ailing group and skillfully negotiated many sensitive, technical issues. He was also instrumental in restructuring the computer and electronics divisions along functional lines, resulting in a more efficient, coherent export licensing system.

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**Maureen R. Smith**

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*Supervisory Regional Economist, Office  
of Japan  
International Trade Administration*

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Mrs. Smith has consistently performed her duties with distinction and has established a reputation throughout the Government and the business community for the highest standards of competence and industriousness. As Acting Director of the Office of Japan, her broad knowledge of international economics and business affairs has enabled her to make a significant contribution to U.S.-Japan affairs. She has served in her current capacity at a difficult period in U.S. Japanese relations, and she has made a positive impact in resolving difficult trade issues. In doing so, she has made unique and important achievements in the international trade activities of the Department.

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**Donald A. Becker**

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*Manager, Recycled Oil Program  
National Measurement Laboratory  
National Bureau of Standards*

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Mr. Becker organized and established a program which allowed the National Bureau of Standards to fulfill legislative requirements determining the substantial equivalency of used oils with virgin oils. Mr. Becker developed the technical program plan to fulfill this mandate, including the recruitment of technical staff and development of a new tribochemistry competence for NBS. Test methods and procedures developed under Mr. Becker's guidance are used throughout the Nation to test used oils.

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**Norman B. Belecki**

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*Supervisory Physicist  
National Measurement Laboratory  
National Bureau of Standards*

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Mr. Belecki is recognized for his outstanding and untiring leadership of the basic electrical calibration services of the National Bureau of Standards. Through his dedicated work over the last decade, NBS has maintained a highly effective electrical calibration service responsive to user needs. Each year, through his efforts and those of his staff, NBS has been able to provide reliable, timely, and useful calibration services for basic electrical standards, including measurement assurance programs, to several hundred high-technology industrial and government laboratories throughout the United States. These services ensure that essentially all measurements made within the United States of voltage, current, and impedance are traceable to the appropriate U.S. legal or national reference standards maintained by Mr. Belecki and his group.



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**Andre Deprit**

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*Mathematician  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Deprit is recognized for his pioneering research and distinguished contributions in analytical mechanics, nonlinear dynamics and applying computerized algebraic manipulation, especially in predicting the orbits of satellites. His work has played a major role in the successful continuation of NBS satellite time code service, which is used by power companies and earthquake monitoring stations. He also developed a method for greatly compressing the algebraic description of artificial satellite orbits, which minimizes the computer demands needed for navigational control. His development of algorithms for perturbations based upon Lie transformations places these problems in their simplest and most readily calculated form for use by engineers and analysts in calculating a wide spectrum of problems.

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**Geoffrey J. C. Frohnsdorff**

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*Chief, Building Materials Division  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Frohnsdorff is recognized for his leadership in forming a building materials program with worldwide impact. Under his leadership, the technical basis was provided for eight ASTM standards covering the use of new materials in solar energy systems. These standards led to significant improvements in the reliability of solar energy systems. Also, as a result of his work on blended cements, there has been a significant increase in the use of fly ash in concrete products resulting in substantial energy savings and conservation of natural resources.

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**Charles J. Glinka**

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*Physicist (Solid State)  
National Measurement Laboratory  
National Bureau of Standards*

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Dr. Glinka has, by his outstanding leadership, ability, and creativity, made a major contribution to the materials science and measurement technology of the National Bureau of Standards and the Nation through his successful development of the NBS small angle neutron scattering facility. This has in turn enhanced many NBS and national programs in such diverse areas as polymer physics, solid state physics, biology, and materials science. Through his efforts, NBS measurement capabilities are at the forefront of this rapidly developing and important field, and are better than any in the world.

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**Charles C. Han**

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*Research Chemist  
National Measurement Laboratory  
National Bureau of Standards*

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Dr. Han is recognized for the excellence of his experimental and theoretical research contributions. His quasielastic light and small angle neutron scattering studies on polymers have gained international recognition. These studies, which are essential in maintaining the Polymer Division's high level of expertise in polymer characterization, have greatly advanced our understanding of polymer conformational behavior and dynamics. In particular, Dr. Han has shown that the static and dynamic properties of dilute polymer solutions obey a corresponding states principle.

## **Howard J. M. Hanley**

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*Supervisory Chemist  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Hanley has exhibited outstanding, creative insight in developing a theory which accurately models the behavior of fluids over wide ranges of temperature, pressure, and mixture composition. Dr. Hanley's theory provided a mathematical description of the transport properties of fluids and fluid mixtures from the dense liquid near the triple point to the dilute gas region. He then used the theory to develop practical computer models which accurately predict the thermal conductivity and viscosity of large classes of hydrocarbons and inorganic molecules. Dr. Hanley is recognized internationally by his peers for his leadership in the theory of transport properties and nonequilibrium behavior of fluids. His published work is extensive and heavily cited.

## **John F. Heafner**

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

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Dr. Heafner is recognized for his exemplary organization and management of NBS' Computer Network Protocol Program. Through Dr. Heafner's efforts the requirements of the United States have been represented fully in international network standardization arenas. Network protocols have been specified completely and unambiguously, permitting correct implementations. Prototype implementations for each protocol are being tested for performance and correctness. Dr. Heafner's efforts have resulted directly in accelerated national and international standardization of network protocols. This standardization process is resulting in network compatible computer systems.

## **Samuel Kramer**

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*Deputy Director  
National Engineering Laboratory  
National Bureau of Standards*

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Mr. Kramer is recognized for his invaluable contributions and exceptional management skills in sharing with the National Engineering Laboratory Director the responsibility for handling and evaluating all of the NEL's technical activities, assessing their effectiveness, developing strategies for change, and implementing further changes. He was particularly effective in reprogramming, redirecting, and implementing policy and quality control measures on NEL's technical programs. He displayed outstanding analytical ability in focusing NEL's programs and practices on the DOC/NBS mission, normally contributing to the Bureau's efforts to improve such sectors of the American industry as electronics, automation, and chemical processes.

## **Hai Sang Lew**

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*Supervisory Research Structural Engineer  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Lew is recognized for his outstanding contributions, leadership and execution of NBS investigations into significant construction failures, which led to the development of improved building construction safety standards. Dr. Lew was the principal investigator of the 1980 collapse of a cooling tower at Willow Island, West Virginia, in which 51 workers were killed, and of the 1981 condominium collapse in Cocoa Beach, Fla. As a result of his work, OSHA adopted Dr. Lew's set of guidelines for safety inspection of construction of concrete cooling towers and used the guidelines to revise existing OSHA regulations. The analytical methods used in the condominium investigation were adopted by the American Concrete Institute as Recommended Practice for Concrete Formwork, enhancing significantly the safety of building construction.

## **Michael R. Moldover**

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*Physicist  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Moldover is recognized for his leadership and contributions to the physics of the wetting transition in fluid mixtures and the development of the spherical acoustic resonator as a powerful metrological tool for gas properties. The impact of his discovery of the existence of an intruding wetting layer on thermo-physical properties of importance to chemical engineering can be seen from the fact that the presence of a layer in instruments such as a magnetic densimeter can lead to serious errors unless appropriate corrections are made. The power of his design of the spherical acoustic resonator originates from its potential for performing highly accurate and precise measurements of thermo-physical properties of gases, including thermal conductivity, and for determining fundamental qualities such as the gas constant.

## **Raymond T. Moore**

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*Supervisory Electronic Engineer  
Institute for Computer Sciences and  
Technology  
National Bureau of Standards*

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Mr. Moore is recognized for his outstanding work in designing and developing the Computerized Site Security Monitoring and Response System (CSSMRS) for the Defense Nuclear Agency. This work has resulted in advances in the state-of-the-art of highly survivable communications networks relying on minimal computational complexity and storage at the network node, and may result in significant cost savings for systems which meet the requirements of physical and communications security for storing nuclear weapons. These results have been recognized by the Defense Nuclear Agency which plans to build a prototype of the novel designs of Mr. Moore and his group.

## **Harold E. Nelson**

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*Head, Design Concepts Research  
National Engineering Laboratory  
National Bureau of Standards*

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Mr. Nelson is recognized for his innovative development of a fire safety evaluation system to evaluate alternative approaches with the Life Safety Code for hospitals, nursing homes, and intermediate care facilities in Medicare and Medicaid programs. As a direct result of his work, fire safety in Federal Government health-care facilities across the United States improved dramatically, saving the public many millions of dollars. The U.S. Department of Health and Human Services' use of Mr. Nelson's system has significantly upgraded the fire safety of the 17,000 nursing homes and 7,000 hospitals under their administration. In 1981, Mr. Nelson's system was incorporated into the National Fire Protection Association's Life Safety Code. It is now being used by fire safety engineers throughout the country.

## **James G. Quintiere**

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*Head, Fire Growth Processes  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Quintiere is recognized for his significant technical contributions and leadership of a research program on the mathematical modeling of fire growth and spread in buildings. He has provided the technical direction for a team of physicists, engineers, and computer scientists, and grantees at seven universities. Under Dr. Quintiere's guidance this group has modeled, coded, and experimentally verified buoyancy driven flows in rooms, smoke and energy transport in rooms, corridors, and through door and window openings, horizontal and vertical flame spread, radiative heat transfer, and flashover. The modeling techniques developed have direct application to the safe design of buildings and have led to a better understanding of aircraft cabin fires. Dr. Quintiere's work has earned him widespread national and international recognition from his peers and colleagues.

## **Christoph J. Witzgall**

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*Mathematician, Operations Research  
Division  
National Engineering Laboratory  
National Bureau of Standards*

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Dr. Witzgall is recognized for his outstanding contributions to the theoretical foundations of the mathematical optimization methods of operations research and for the effective technical design and scientific leadership of operations research studies. His books and papers on convexity and optimization are influential worldwide as the basis for creating and solving linear programming models. His recent studies in computational geometry provide methods essential for the success of NBS programs in automated production technology and computerized preparation of metal alloy phase diagrams. Dr. Witzgall's sophisticated design of linear programming software has made a lasting contribution to methodology in addition to providing easily-used computing tools for urban transportation planning in all 50 States.

## **Robert S. Kaeser**

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*Physicist*

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## **Earl R. Pfeiffer**

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*Physicist  
National Measurement Laboratory  
National Bureau of Standards*

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Messrs. Kaeser and Pfeiffer are recognized for their very valuable contributions to the Nation in providing scientific and administrative leadership for a program in Cryogenic Thermometry that has already led to significant improvements in international and national temperature metrology. Specifically, temperature calibrations for United States commerce in the range of 0.5 K to 30 K may be traced for the first time to an international temperature scale maintained at the National Bureau of Standards. Messrs. Kaeser and Pfeiffer also have developed automation techniques which provide the highest level of temperature metrology; a model to be followed by high-volume commercial calibration laboratories. Finally, they have organized and initiated a measurement assurance program in cryogenic thermometry.

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**Charles M. Eisenhauer**

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*Physicist*

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**Robert B. Schwartz**

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*Physicist*

*National Measurement Laboratory  
National Bureau of Standards*

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Mr. Eisenhauer and Dr. Schwartz are recognized for designing and building a calibration source for testing neutron personnel and protection instruments. Undertaken to provide a calibration base more relevant for the power reactor environments in which most neutron radiation exposure takes place, the novel design has achieved rapid acceptance by the health physics community and prompt application by government agencies responsible for regulating occupational radiation exposures. The new testing source is being written into both an American National Standard (ANSI) and International Standard (ISO). The new moderated californium fission neutron source will also be used in forthcoming programs sponsored by the Nuclear Regulatory Commission and the Department of Energy to carry-out performance testing, evaluation and upgrading of existing personnel neutron dosimetry instrumentation.

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**Charles P. Bowman**

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*Principal Scientist*

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**Roald A. Schrack**

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*Physicist (Nuclear)*

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**James W. Behrens**

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*Physicist*

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*National Measurement Laboratory  
National Bureau of Standards*

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Dr. Bowman, Dr. Schrack, and Mr. Behrens are recognized for developing "Resonance Neutron Radiography," a very valuable new method for safeguarding nuclear material where accurate non-destructive mass analysis for arbitrary distribution of material is required. The method has great power: not only are the spatial position and quantity of material present determined, but the elements of which the sample is composed and even the isotopes of each element present can be measured. This method uses the fact that the neutron cross section for nearly every nuclear isotope exhibits a unique neutron energy-dependent resonance structure. Spatial resolution of 1 mm has been achieved, as have accuracies of about 1 percent in mass analysis of uranium isotopes.

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**Carmen J. Blondin**

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*Director, Office of International Fisheries  
Affairs  
National Oceanic and Atmospheric  
Administration*

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Mr. Blondin serves as U.S. Commissioner on both the International Commission for the Conservation of Atlantic Tunas (ICCAT) and the North Pacific Fur Seal Commission (NPFSC). He has conceived, directed, and conducted numerous bilateral and multilateral negotiations on behalf of the Secretary of Commerce. At the November 1981 meeting of ICCAT, he secured international support for the U.S. position that the stock of Atlantic bluefin tuna was in recruitment difficulties and that fishing mortality should be drastically limited. In a subsequent meeting of affected nations in Miami, Florida, in February 1982, he secured agreement on the distribution among countries of a limited take of Atlantic bluefin tuna for scientific monitoring purposes.

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**Ronald M. Bolton**

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*Chief, Aeronautical Chart Division  
National Oceanic and Atmospheric  
Administration*

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Mr. Bolton is cited for outstanding performance as Project Manager and Technical Consultant for all mapping, charting, and automated data processing applications related to the National Ocean Survey's role in the Federal Aviation Administration's Minimum Safe Altitude Warning (MSAW) system. Through Mr. Bolton's valuable expertise in integrating many different fields of technology to provide extremely accurate and dependable obstruction data, the MSAW system has significantly improved air navigation safety. Numerous lives have already been saved in several system-averted collisions as a result of Mr. Bolton's dedicated efforts to make the system functional.

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**Gary K. Davis**

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*Staff Engineer  
National Earth Satellite Service  
National Oceanic and Atmospheric  
Administration*

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By virtue of unusual technical originality, engineering expertise, and follow-through, Mr. Davis has significantly enhanced the cost-effectiveness and value of the Geostationary Operational Environmental Satellite System. He led the operations team that prepared the National Earth Satellite Service to assume the launch control responsibility for such spacecraft. Proposer of a new operational mode for acquiring and broadcasting water vapor information, he has also been developer and coordinator of a special test program for temperature soundings from earth-synchronous heights. In addition, he has been very involved in the analysis and solution of system problems both engineering and operational, thereby greatly contributing to the reliability of the spacecraft products and services provided.

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**James P. Lawless**

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*Acting Director, Office of Ocean Minerals  
and Energy  
National Oceanic and Atmospheric  
Administration*

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On September 2, 1980, the Administrator of NOAA created the Office of Ocean Minerals and Energy and charged it with the responsibility of implementing the seabed mining and ocean thermal energy conversion licensing legislation. Mr. Lawless has carried the full responsibility for the regulations to implement the seabed mining law as well as the full management responsibility as Acting Director of the Office and U.S. participant in the reciprocal states negotiations. He has done an exceptional job at both the technical level and at the management level in assisting and directing the creation of an important new office in NOAA in a time of extreme budget and personnel constraints.



## **James M. Leis**

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*Leading Forecaster Aide—  
Communications  
National Weather Service  
National Oceanic and Atmospheric  
Administration*

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Mr. Leis is cited for his unusual courage and competency during a fire at the National Hurricane Center. While working the midnight shift on August 14, 1981, Mr. Leis risked his life to disconnect a teletype machine which had caught fire. He had to grope among a maze of electrical wires covered with fire extinguisher foam in a smoke-filled room. His courageous action prevented the loss of the communications room and equipment, and possibly the complete National Hurricane Center operation at the peak of the hurricane season. In fact, within 3 days, tropical storm Dennis brought 20 inches of rain to the Miami area. Mr. Leis' courageous action may have saved the lives of the other eight employees on duty as well as averting the potential loss of the National Hurricane Center.

## **Melvin R. McLaughlin**

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*Supervisory Meteorologist  
National Weather Service  
National Oceanic and Atmospheric  
Administration*

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Over the past 11 years Mr. McLaughlin has originated and refined ideas which contributed substantially to the advancement of National Weather Service programs. As a firstline field supervisor and regional program leader, he has worked to improve Severe Weather and Flash Flood Warning Programs. His exploitation and promotion of the latest forecast and storm detection techniques have resulted in excellent warnings for disastrous weather events and contributed significantly to alleviating the long-standing overwarning problem. Mr. McLaughlin's contributions have been of sufficient magnitude to exert influence on program direction throughout the National Weather Service.

## **Wilford E. Rench**

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*Supervisory Meteorologist  
Agricultural Weather Service Center  
National Oceanic and Atmospheric  
Administration*

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Dr. Rench is cited for outstanding contributions in increasing food production in the United States. Under his leadership a detailed plan for rice production, known as DD-50, has been introduced in several southern States. This program advises producers on the most advantageous dates for planting, fertilizing, spraying, and harvesting of rice so that maximum yields may be achieved. Dr. Rench also was instrumental in developing a livestock feed index which enables producers to tailor livestock feeding programs to help animals withstand various weather-related stresses. During the winter of 1981-82 this program prevented major livestock losses when abnormally cold and wet weather struck the Deep South.

## **Albert P. Shipe, Jr.**

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*Hydrologist  
National Weather Forecast Office  
National Oceanic and Atmospheric  
Administration*

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Mr. Shipe has made valuable contributions to the mission of the National Weather Service by his demonstrated leadership in flood preparedness activities with NWS offices and other agencies. His outstanding abilities as an operational hydrologist were clearly demonstrated by his early flood outlooks and in concise and accurate flood warnings and statements he issued prior to the flooding that occurred in northern Indiana, and particularly at Fort Wayne, during March 1982. Millions of dollars in property damage losses in Fort Wayne were avoided by extensive sandbagging prompted, in part, by Mr. Shipe's warnings. While national attention was focused on the Fort Wayne flooding, other rivers in northern Indiana were also overflowing, and Mr. Shipe was tirelessly issuing accurate flood information for the entire area.

## **Charles H. Sprinkle**

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*Chief, Aviation Services Branch  
National Weather Service  
National Oceanic and Atmospheric  
Administration*

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Mr. Sprinkle has made major contributions to domestic and international aviation, providing consistently outstanding leadership in the development of aviation weather programs and services. Through his outstanding efforts, the weather needs and safety of the aviation community have been greatly enhanced. He has brought meteorological expertise into the Federal Aviation Administration's Air Route Traffic Control Centers, enabling en route pilots to get timely warnings of hazardous weather. He was instrumental in the development and expansion of the "A.M. WEATHER" television show carried by over 250 Public Broadcasting System stations in the United States, Puerto Rico, and parts of Canada. Mr. Sprinkle has distinguished himself and the Nation through his representation of the United States before international aviation forums.

## **Thaddeus Vincenty**

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*Geodesist  
National Ocean Survey  
National Oceanic and Atmospheric  
Administration*

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Mr. Vincenty is recognized for theoretical research into three-dimensional geodesy, with the results derived used as practical equations by the geodesists to improve the understanding of the mathematical figures of the Earth and dynamic Earth properties. National Ocean Survey/National Geodetic Survey is using Mr. Vincenty's equations based on three-dimensional geodesy to update the geodetic coordinates of the outmoded North American Datum 1927 and transforming them into preliminary North American 1983 coordinates. These values will be used to formulate the final adjustment of the North American Datum which is composed of millions of observations.

## **Richard A. Wagoner**

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*Meteorologist in Charge  
Weather Service Forecast Office,  
San Francisco  
National Oceanic and Atmospheric  
Administration*

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Mr. Wagoner has made a significant contribution during the past 2 years to the development and implementation of programs which are bringing into operation the Automation of Field Operations and Services (AFOS) for the National Weather Service. His outstanding professional competence, initiative, and industry have resulted in achievements of national significance. As AFOS program manager for the Western Region, he effectively marshalled resources to accomplish the pre-commissioning program for AFOS. The Western Region pioneered the operational implementation of AFOS. The organizational concepts, training methods, and operating procedures developed under Mr. Wagoner's guidance served as a model for all other regions of the National Weather Service. This work facilitated the success of the entire national program.

## **Melvin E. Welch**

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*Electronics Technician  
National Earth Satellite Service  
National Oceanic and Atmospheric  
Administration*

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Mr. Welch is recognized for outstanding contributions in the communication of imagery observed by the National Oceanic and Atmospheric Administration's Geostationary Operational Environmental Satellites (GOES). His technical skills and ingenuity helped the National Earth Satellite Service to improve, at reduced costs, the distribution of GOES imagery. Mr. Welch successfully designed and implemented hardware for time-multiplexing imagery from the two GOES, and rerouted communications circuitry for distributing these data. He has improved the GOES communications for image distribution while reducing the cost of the resulting system. Mr. Welch's efforts led to a FY 1982 saving of \$135,000.



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**Joel R. Wertman**

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*Senior Instructor (Meteorology)  
National Weather Service  
National Oceanic and Atmospheric  
Administration*

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Mr. Wertman has performed his teaching duties with exceptional skill for more than 8 years at the National Weather Service Training Center. Through his talents for teaching and his ability to inspire and motivate people, the National Weather Service's (NWS) radar meteorology program has been significantly improved and the abilities of hundreds of NWS employees greatly enhanced. There is evidence that the results of his accomplishments and influence have contributed to the savings of lives through applications of radar procedures and techniques in the crucial severe storm warning program.

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**Harold M. Gibson, Thomas C. Morgan,  
Edward Yandrich, Stanley J. Krowka,  
Thomas J. Grant**

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*Meteorologists  
National Weather Service, New York  
National Oceanic and Atmospheric  
Administration*

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Messrs. Gibson, Morgan, Yandrich, Krowka, and Grant, forecasters at the New York City Weather Forecast Office, are cited for their outstanding contributions toward the safety and well-being of the public before and after the rare spring blizzard that struck the northeastern States on April 5-7, 1982. The considerable potential of the record event was recognized 48 hours before the storm developed. Millions of people received the forecasters' timely, accurate warnings of the unusual event. The situation was described to the public in a way that instilled confidence in the warnings and developed the desired awareness of the storm's seriousness. This permitted action to be taken by the public so life-threatening conditions could be avoided and an untold number of lives saved.

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**Stephen F. Corfidi, John E. Hales, Jr.,  
Horace R. Hudson, Jr.,  
Robert H. Johns, Thomas S. Kasko,  
Larry F. Wilson, William H. Wolfe**

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*Meteorologists  
National Weather Service, Kansas City  
National Oceanic and Atmospheric  
Administration*

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Messrs. Corfidi, Hales, Hudson, Johns, Kasko, and Wolfe, forecasters in the Severe Local Storms Unit at the National Severe Storms Forecast Center at Kansas City, Mo., are cited for their remarkable abilities and actions on April 2, 1982, when tornadoes and severe thunderstorms ravaged a 16-State area of the United States over a 12-hour period. It was the most widespread severe storm outbreak in recent history. The Unit has the national responsibility for forecasting tornadoes and severe thunderstorms. It is the first alert to the dangerous threats and sets the entire Nation's warning system in motion. These forecasters' incredibly accurate outlooks and specific forecasts beginning some 15 hours before the first major tornado are credited with the ultimate saving of many lives.

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**S. Leon Bashore, Jr.**

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*Supervisory Patent Examiner, Group 170  
U.S. Patent and Trademark Office*

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Mr. Bashore has made a very valuable contribution to the U.S. Department of Commerce and to the administration of the U.S. Patent and Trademark Office programs through his outstanding skill and ability demonstrated while he was an examiner and subsequently as a Supervisory Patent Examiner in Group 170. Under his direction, influence and inspiration his Art Unit in the past 5 years has exceeded its goal by an average of at least 10 percent per year. Thus, significant program advancements were made in the Group by reducing pendency while promoting the sciences and useful arts.

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**John J. Cochran**

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*Supervisory Computer Specialist  
U.S. Patent and Trademark Office*

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Mr. Cochran is recognized for extraordinary skill, highly competent performance and leadership, and unusual initiative in managing complex automatic data processing technical support programs. His efforts have resulted in timely implementation of numerous major projects such as the Patent Application Location and Monitoring system while concurrently maintaining an acute awareness of program managers' needs, requirements, and critical deadlines. His outstanding dedication and initiative have contributed significantly to the accomplishment of U.S. Patent and Trademark Office missions and goals.

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**Wesley H. Gewehr**

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*Director, Office of Automatic Data  
Processing Administration  
U.S. Patent and Trademark Office*

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Mr. Gewehr is recognized for his consistently outstanding contributions to automatic data processing operations. He was instrumental in the successful acquisition and installation of the Office's large computer system, a very complex telecommunications system, and a data base management system. He independently developed the data base design which now serves as the focal point for detailed system design and programming. Through his innovative actions, significant savings have been made, automatic data processing operations have been streamlined and improved, and well-founded plans have been laid for the future. Through extraordinary initiative and talent, he has introduced the Office to modern, advanced technology for the first time.

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**Elliot A. Goldberg**

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*Patent Examiner  
U.S. Patent and Trademark Office*

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Mr. Goldberg is recognized for his contributions of unusual value to the Department in program areas encouraging technological advancement. His high level of competence in examining patent applications in the vigorously competitive areas of electrostatic capacitors and electric welding has reduced the time applications which are pending in the Office and has increased the allowance of patents with a strong presumption of validity. Mr. Goldberg has consistently demonstrated skills and abilities in the performance of his duties which have resulted in program advancements. His specific expertise in the classification of patents resulted in information being dedicated to programs serving industry and inventors.

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**Vivian C. Harris**

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*Supervisory Patent Assistant, Group 320  
U.S. Patent and Trademark Office*

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Mrs. Harris, through her individual leadership, industry and imagination, has developed an efficient and effective examining group clerical force. Her efforts have resulted in reduced clerical backlogs, prompt and accurate handling of clerical workloads and cost effective management of her examining group clerical force. Through her managerial accomplishments, she has made a major contribution to the reduction of patent pendency and to the improvement of the quality of examination by the prompt and accurate processing of patent prosecution correspondence and examiner search material used in the patent examination process.

## **Stephen G. Kunin**

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*Supervisory Patent Examiner, Group 320  
U.S. Patent and Trademark Office*

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Mr. Kunin, through his demonstrated outstanding performance as both an examiner and supervisor of patent examining Art Units, has made a major contribution to the reduction of patent pendency and to the improvement of the quality of examination in the U.S. Patent and Trademark Office. The quantity of work produced by Mr. Kunin and the Arts Unit under his supervision has been consistently far in excess of that expected, resulting in a significant dollars savings to the taxpayer and a consequent reduction in patent pendency. The quality of the examination given by Mr. Kunin and the examiners under his supervision has been universally most exemplary. Mr. Kunin and his well trained staff have performance-wise taken an active role in accomplishment of the U.S. Patent and Trademark Office goal of the prompt issuance of valid patents.

## **William S. Lawson**

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*Director, Office of Technology Assessment  
and Forecast  
U.S. Patent and Trademark Office*

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Mr. Lawson is recognized for his leadership in the area of technological information. As the driving force behind the development and advancement of a unique technology assessment and forecast program, he has pioneered new and very valuable ways of accessing a comprehensive data base for the benefit of the primary users of the U.S. patent system—industry, individual inventors, small businesses and the academic community. Mr. Lawson's imagination, creativity and outstanding management and organizational skills have made the U.S. Patent and Trademark Office's program for assessing and forecasting technology the object of respect and emulation throughout the world.

## **Thomas F. Lomont**

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*Director, Office of International Patent  
Classification  
U.S. Patent and Trademark Office*

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Mr. Lomont is recognized for his outstanding leadership of an international body of patent experts which has resulted in the reconciling of the U.S. Patent Classification System and the International Patent Classification System in the fields of chemistry, metallurgy, textiles, and paper. By skillful use of his talents of negotiation and persuasion and technical and legal skills, he achieved adoption by the international body of a novel approach in the development and administration of an international classification system where only the patents of each country need be classified by the respective Patent Office, greatly reducing duplicate efforts of the Patent Offices of the world. Through his efforts the classification operations of the U.S. Patent and Trademark Office have been made more efficient and effective.

## **James R. Lynch**

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*Director, Office of Budget, Planning and  
Evaluation  
U.S. Patent and Trademark Office*

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Mr. Lynch is recognized for his leadership in the area of budget management. Despite the pressures and deadlines inherent in the budget process, Mr. Lynch's resourcefulness and in-depth knowledge of Federal budgeting have consistently enabled the U.S. Department of Commerce to present its resource requirements to the President and the Congress in a clear, accurate and persuasive manner. Mr. Lynch recently demonstrated extraordinary professional ability by successfully formulating for the U.S. Patent and Trademark Office a very ambitious, three-year budget program—a complex and controversial method of financing future operations through a gradual transition from taxpayer to user support. Mr. Lynch has earned the reputation in the U.S. Department of Commerce as a consummate analyst, a highly professional budgeteer and an extremely effective manager.

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**Ernest R. Purser**

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*Primary (Expert) Examiner  
U.S. Patent and Trademark Office*

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Mr. Purser is recognized for his extremely competent performance of duties, and for the consistently outstanding skill and ability he has displayed in that performance. Mr. Purser's application of his expert knowledge has resulted in consistently outstanding production, both in quantity and quality. His willingness to share his knowledge with associates has greatly enhanced the effectiveness of their performance as well. His dedication to duty and his inspiration to others have proven significantly instrumental in advancing the programs of the U.S. Patent and Trademark Office and the U.S. Department of Commerce.

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**Dalton L. Truluck**

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*Primary Examiner, Art Unit 336  
U.S. Patent and Trademark Office*

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Mr. Truluck has been an outstanding Patent Examiner for many years. He is the recognized U.S. Patent and Trademark Office expert in the field of surgery. His outstanding skill, ability and knowledge of the surgical arts have significantly contributed to the success of major departmental program objectives. His reclassification of the surgical arts and his dedication to the integrity of the search files has enhanced the reliability of an issued patent. While freely giving his time to assist fellow examiners and the public, Mr. Truluck has maintained outstanding levels of quality and quantity. His accomplishments have demonstrated that he is a dedicated public servant and an inspiration to his fellow employees.

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**Mary A. Turlington**

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*Writer-Editor  
U.S. Patent and Trademark Office*

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Through her exceptional skill in establishing effective working relationships with personnel of all levels, Mrs. Turlington has advanced the utilization of the U.S. Trademark System. Under her leadership, the quality of computerized trademark data has been significantly improved, and operating procedures affecting the U.S. Patent and Trademark Office, the Government Printing Office, and commercial contractors have been refined and successfully implemented. Her dedication to excellence has greatly benefited the U.S. Department of Commerce, the American Bar Association, and the general public.

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**Robert C. Watson**

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*Primary Patent Examiner  
Patent Examining Group 320  
U.S. Patent and Trademark Office*

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Mr. Watson is recognized for his outstanding skill and ability in the performance of duties, which have contributed materially to the advancement of the U.S. Patent and Trademark Office program of reducing the pendency of patent applications in the U.S. Patent and Trademark Office. Through his expert knowledge and consistently outstanding production, and because of his positive attitude and desire for excellence, Mr. Watson has served as an inspiration to his fellow examiners.

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**Samih N. Zaharna**

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

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Mr. Zaharna is recognized for his outstanding leadership and accomplishment in the performance of his duties as a Patent Examining Group Director in the U.S. Patent and Trademark Office. His untiring efforts and demonstrated skill in managing more than 80 employees, professional and clerical, have significantly advanced the major program of the U.S. Patent and Trademark Office, the examination of patent applications, and the issuance of valid patents within a reasonable time. His creative abilities are reflected in the high productivity of personnel working under his direction.

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**Gladys B. Dates,**

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*Equipment Analyst*

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**Sharon C. Graham,**

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*Secretary, Patent Examining Group 140*

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**Ilyone L. Miles,**

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*Supervisory Transcription Clerk, Patent  
Examining Group 140  
U.S. Patent and Trademark Office*

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Ms. Dates, Ms. Graham, and Ms. Miles served as support personnel for a group which designed, developed, and implemented a revolutionary information processing system. The system stores and retrieves form paragraphs stored in microcomputers and is capable of producing Office letters and communicating the letters directly via telephone lines to inventors and patent practitioners across the Nation. They demonstrated outstanding technical ability and leadership in a demanding and diversified range of technical and scientific disciplines and made meritorious contributions in the procurement of equipment, installation and training of operators.

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**Donald J. Hoffman  
Leslie Wolf**

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*Supervisory Patent Classifiers  
Chemical Classification Group  
U.S. Patent and Trademark Office*

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Messrs. Hoffman and Wolf are recognized for their outstanding leadership in designing, developing, and implementing a new information retrieval system for patents and other technical documents in the field of carbon chemistry. Their most significant achievement has been developing a unique classification scheme covering over one and a quarter million documents. Their new system reduces the number of documents which must be considered in conducting a patentability search from thousands to a few hundred. This new system also paves the way for conducting future reclassification projects in an efficient and less expensive manner.

## **DEPARTMENT'S INCENTIVE AWARDS BOARD**

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

*Special Thanks To:*

The Langley High Jazz Lab

Joint Armed Forces Color Guard

Mr. Charles Messina, Design Branch, Publications Service

The Editorial Staff and Printing Division, Publications Service

The Incentive Awards Program Officers and Assistants of the Department

