

A UNITED STATES
DEPARTMENT OF
COMMERCE
PUBLICATION



**21st
ANNUAL
HONOR
AWARDS
PROGRAM**

U.S. DEPARTMENT OF COMMERCE

**21st
ANNUAL
HONOR
AWARDS
PROGRAM**

OCTOBER 14, 1969/3:00 P.M.

DEPARTMENT OF COMMERCE AUDITORIUM

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

PROGRAM

INTRODUCTION

John Will
Director of Personnel

Presentation of the Colors
Joint Armed Forces Color Guard

ADDRESS

Maurice H. Stans
Secretary of Commerce

PROGRAM ANNOUNCEMENTS

Larry A. Jobe
*Assistant Secretary
for Administration*

Suggestion Awards and Special Achievement Award

Silver and Gold Medal Awards

Music by
U.S. Army Band

**GOLD
MEDAL
AWARD
WINNERS**



Anthony A. Bertsch

*Assistant Administrator for Industrial
Mobilization
Business and Defense Services
Administration*

Mr. Bertsch is recognized for his outstanding leadership and management in directing the mobilization programs of the Business and Defense Services Administration. He is recognized for his superb contributions to the Department of Commerce's objectives in fulfilling responsibilities under the Defense Production Act to promote the defense establishment and industrial readiness posture of the United States with minimum adverse effect on continued domestic economic growth. He has performed in a consistent and superb manner in assisting the Secretary in fulfilling his responsibilities under the Defense Production Act and has brought to the Department industry's praise and appreciation in alleviating problems resulting from the allocation and priorities' systems for defense orders.



Charley M. Denton

*Assistant Administrator for Industry
Operations
Business and Defense Services
Administration*

An outstanding Government executive who has continually applied modern management techniques and imaginative leadership in solving complex problems and issues, Charley M. Denton has materially improved the Business and Defense Services Administration program performance and development with reduced personnel resources by inspiring his employees to achieve greater and more effective performance. His energy, resourcefulness, and devotion to duty have been key factors in improving BDSA's services to industry and the Department's ability to effect its recommendations throughout the Government. He has used his wide business experience, engineering knowledge, and negotiating tact and skills to help secure major contracts for U.S. firms abroad, for nuclear power plants, pipe mills, and other large engineering projects. He has distinguished himself by applying sound judgment and intimate knowledge of business practices to the solution of complex business problems and issues. His unique abilities in administration and operations were instrumental in successfully reorganizing BDSA in order to provide more comprehensive and responsive solutions to industry problems.



Daniel B. Levine

*Chief, Demographic Surveys Division
Bureau of the Census*

Mr. Levine is recognized for his outstanding contributions in the development of new procedures for the collection and tabulation of essential information to meet the Government's rapidly growing need for current statistical information about the people and the homes of the country. Mr. Levine has exercised outstanding leadership in adaptation of survey procedures to meet new needs and in restraining costs of such surveys. His ingenuity in adapting existing surveys to meet new needs and his continuing adherence to high standards of performance in this work have contributed significantly to the quality of the Government's statistical surveys, as well as surveys done by private organizations.



John H. Eberly

*Executive Officer
Environmental Science Services
Administration*

Mr. Eberly's contributions to the overall administration of all staff and program activities under the Administrator of the Environmental Science Services Administration have been consistently outstanding. Since ESSA's formation in 1965, when he proved to be one of the agency's most capable leaders during the difficult transition period, he has displayed extraordinary skills in the administration and management of ESSA. He has shown a deep awareness and capability in the interdisciplinary scientific programs of ESSA, and a broad and thorough knowledge of the inherent scientific processes and problems in such an agency. In particular, he handled with the greatest competence Congressional inquiries and complaints during a difficult period when a significant number of field facilities were closed or reduced in 17 states. The assistance he personally rendered members of Congress in resolving the large volume of complaints and questions from the general public was of the highest caliber.



Don T. Hilleary

*Research Meteorologist
Environmental Science Services
Administration*

Mr. Hilleary guided the development of an important meteorological observing instrument through its conception, design, and preliminary test to a brilliantly successful performance aboard the NIMBUS III spacecraft. The SIRS (Satellite Infrared Radiometer Spectrometer) is an instrument which measures the infrared radiation emitted by the CO₂ gas in the earth's atmosphere. From this data a vertical temperature profile of the atmosphere can be calculated. In order for this to be possible, however, the performance of the instrument must exceed what was generally agreed to be the state-of-the-art of infrared radiometry when the project was initiated in 1959. Mr. Hilleary, working with a group assembled at the National Environmental Satellite Center and with the industrial leaders in infrared instrumentation, made this required performance a reality.



William L. Tilson

*Meteorologist in Charge
Mobile, Alabama
Environmental Science Services
Administration*

Mr. William L. Tilson's outstanding display of initiative and ingenuity during Hurricane Camille's approach to the Mississippi Coast resulted in the issuance of timely warnings and the saving of many lives. His precise judgment of the dangers that were posed to coastal areas by Camille combined with his ingenuity in utilizing all available communication means for the dissemination of warnings to all areas, including isolated and outlying areas, permitted an early and orderly evacuation and prevented panic from arising. His excellent pre-storm planning and staff leadership resulted in exemplary team effort by the staff of the Mobile Office that provided a continuous flow of vital warnings and information. His graphic warning messages are credited by many officials with saving the lives of at least five thousand (5,000) people.



David Q. Wark

*Research Meteorologist
Environmental Science Services
Administration*

Dr. Wark is recognized for his basic theoretical and experimental accomplishments, culminating in the highly successful sounding of atmospheric temperatures from an artificial satellite, a technique of major importance to global weather prediction. Dr. Wark has participated in depth in all phases of the SIRS (Satellite Infrared Radiometer Spectrometer) development from its conception to its operation as a very successful instrument currently providing atmospheric temperature profiles of the earth's atmosphere from the NIMBUS III spacecraft. His greatest contributions were in the areas of designing the experiment (or establishing the performance parameters of the instrument required to carry out the measurements) and in the development of the mathematical procedure for reducing the data. This latter task, trivial in most observational programs, is the key to success or failure. Dr. Wark's skill, ingenuity and perseverance are manifest in the success of the instrument in space today.



Frank W. Burnett

*Deputy Director, National
Meteorological Center*

Harlan K. Saylor

*Chief, Analysis and Forecast
Division
Environmental Science Services
Administration*

Mr. Frank W. Burnett and Mr. Harlan K. Saylor are being cited for their work in the development of a new technology, the mixing of man and machine methods to produce central guidance weather forecasts. This new development, which was started by Mr. Burnett in 1958 and continued by Mr. Saylor since 1964, is unique among weather centrals of the world in that it is essential to the realization of benefits accruing from the great advances in automation in the past decade. In addition to an overall increase in accuracy of weather forecasts, the benefits include more accurate and timely predictions of heavy rain or snow, windstorms and quantitative precipitation forecasts used in river and flood forecasting. This work is of lasting significance, not only to the general economy of the Nation, but also in the saving of life and property through improvement of warning services during periods of unusual and severe weather.



Barney



Hallgren



Kuettner

Bomex Project

Environmental Science Services Administration

Mr. William S. Barney, Dr. Richard E. Hallgren, Dr. Benjamin Davidson,* and Dr. Joachim Kuettner are recognized for the successful Barbados Oceanographic and Meteorological Experiment, or Project BOMEX, carried out in the Caribbean area during the period May-July of this year. This was the most intensive scientific investigation ever made over a large ocean area, to understand the still mysterious links between the sea and air which involve the shaping of the world's weather. These men, as a group, spread enthusiasm for their work and built a foundation from which this experiment was successfully launched. They took leading roles in making a definite contribution to man's knowledge for a better understanding of his environment so that its behavior can be better predicted.

The successful completion of this experiment clearly represents an outstanding example of cooperative activity among the seven Federal agencies and the 19 universities which were included in this experiment. BOMEX was designed as a forerunner of future studies, aimed at major improvement in weather prediction for the people of the United States and the eventual development of a larger endeavor, the World Weather Watch.

* Awarded posthumously



Strub Alexander Hiatt
 Johnson Mondschein

River and Flood Forecasting and Warning Programs

*Silver Spring, Maryland; Kansas City,
Missouri; and Minneapolis, Minne-
sota*

*Environmental Science Services
Administration*

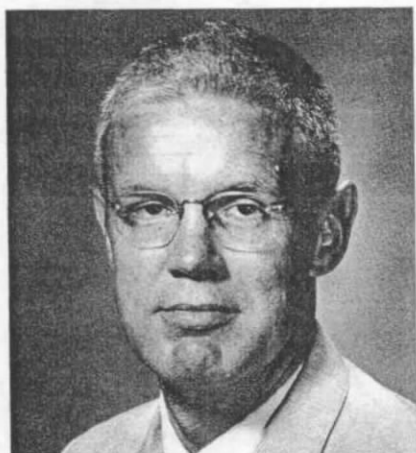
Messrs. Verne Alexander, William E. Hiatt, Joseph H. Strub, Jr., Ray E. Johnson, and Herman F. Mondschein, working as a highly effective team, were responsible for and eminently successful in issuing and coordinating very timely, accurate and highly useful river stage outlooks, forecasts and flood warnings in connection with the widespread Upper Midwest snowmelt floods during the spring of 1969. Through the River Forecast Center at Kansas City, Missouri and the River District Office at Minneapolis, Minnesota, they were responsible for issuing a highly useful lookout of expected river stages more than a month in advance of the actual flooding. These forecasts of expected river stages served as a basis for flood preparations on the Federal, state and local levels. These protective measures, known as "Operation Foresight," resulted in savings of millions of dollars.



Herbert S. Vincent

*Patent Classifier
Patent Office*

This award is granted in recognition of a truly remarkable contribution to the scientific and technical programs of the Department of Commerce which has been made by Mr. Vincent. This accomplishment which far exceeds normal expectations in terms of quality, scope and effectiveness, flows from an outstanding performance of his duties and reflects a superb imaginative and creative ability, dynamic drive and inspirational leadership qualities. Mr. Vincent has created a new patent information search and retrieval technique which successfully merges into a single patent search capability a conventional manual system and a mechanized system. By this novel method, the research powers and capabilities of conventional patent classification systems can be expanded by startling proportions to yield shortened search times and improved search results at nominal additional costs. It is through the life saving effects of such contributions that there is generated hope for the continued survival of the Patent System which is otherwise in danger of being engulfed by mountains of publications caused by an exploding technology.



John A. Bennett

*Metallurgist
National Bureau of Standards*

This award is granted to Mr. Bennett for outstanding skill in metallurgical research and for leadership in solving a major problem involving bridge safety. He determined that metallurgical factors were contributory toward the collapse of the Point Pleasant Bridge and established the nature of a mechanism that would explain a 40-year delay in failure. His leadership involved the guidance of his own personnel as well as effective coordination between other agencies and laboratories. The results of this study are of considerable importance to the Nation and its relationship to highway transportation safety. When the results are fully reported, it will be incumbent for all states and other jurisdictions to examine their bridges in view of the findings and to determine if they have been or could be affected by similar insidious conditions.



Daniel V. DeSimone

*Chief, Office of Invention and
Innovation
National Bureau of Standards*

This award is granted in recognition of distinguished authorship in the publication *Technological Innovation: Its Environment and Management* and in recognition of outstanding competence in the subject of invention and innovation. Mr. DeSimone, a recognized authority in this subject, was appointed Executive Secretary of the Department's Panel on Invention and Innovation and was the prime mover of the Panel. The Panel report, referenced above, is the major definitive study of the relationship of the process of invention and innovation and technological change to Federal policies, to education and to the unique problems of technologically based enterprises. The report has had a major impact, influencing policy decisions both in and out of Government.



Vernon Hamilton Dibeler

*Chemist (Physical)
National Bureau of Standards*

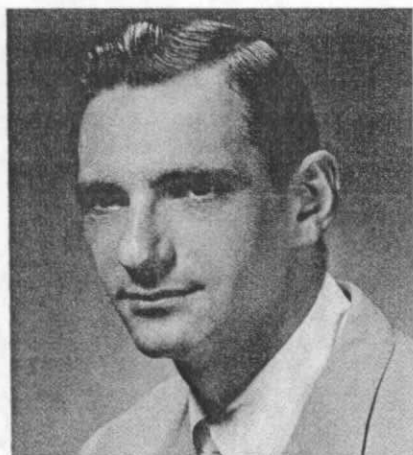
Dr. Dibeler is well known as a pioneer in mass spectrometry, a research scientist, an organizer and an effective leader. During twenty-eight years of government service Dr. Dibeler has developed mass spectrometry to a fine art and has applied it to other disciplines. His contributions chart the growth of mass spectrometry. He made the first systematic study of mass spectra needed for petroleum analysis. He established the NBS program in isotope analysis for the AEC and led a study of the mass spectra of free radicals to provide information on high energy rocket fuels. In recent years he has become a world leader in photoionization mass spectrometry, contributing new and exciting information on molecular thermochemistry and ionization processes. A top-notch experimentalist, he provides the high quality data, instruments and techniques essential to the advancement of science.



John Lewis Hall

*Physicist
Boulder, Colorado
National Bureau of Standards*

From 1962 Dr. Hall has conducted a series of studies of laser technology with emphasis on the stabilization of lasers with a view toward their ultimate use as extremely precise tools in the measurement of lengths and the realization of the full potential of the laser as a measurement tool for the study of the structure of atoms and molecules. Dr. Hall has pursued his objectives with great energy and initiative, and with crusader's zeal has undertaken to alert the NBS staff to the profound implications which laser technology carries for the Bureau's mission in measurements and standards.



Samuel Penner

*Chief, Electronuclear Physics Section
National Bureau of Standards*

Dr. Penner has developed and implemented an outstanding experimental facility and program for nuclear structure studies, using the Bureau's new electron linear accelerator. In the development of this high-energy electron scattering program he has made a number of significant contributions, most of which are being applied throughout the world. Among them are matrix procedures for the design of beam transport equipment for accelerators of all types, the theory of the "magic-angle" magnetic spectrometer and the first application of a semi-conductor counter array of detectors for an electron scattering spectrometer. The program has demonstrated its uniqueness and scientific merit by attracting to it a number of collaborators from domestic and foreign laboratories. Since nearly all of the collaborative institutions are universities, the program which Dr. Penner has developed is making real contributions in graduate education as well as in basic scientific measurements.



Bourdon F. Scribner

*Chief, Spectrochemical Analysis
Section
National Bureau of Standards*

Mr. Scribner is recognized for his important systematic studies of the application of spectroscopic techniques to the characterization of materials, together with the establishment of standard reference materials with which these techniques can yield accurate analyses for both major constituents and trace elements. Starting during the last World War when rapid and accurate methods for the determination of uranium were badly needed to support the fission project, he provided the needed methodology and reference materials. The procedures and standards he has developed in the long-range program launched by this early endeavor have enhanced greatly the accuracy and speed of untold industrial and technological applications of emission spectroscopy and have added a new dimension of sensitivity to the analysis of traces.

**SILVER
MEDAL
AWARD
WINNERS**

Sara Louise Deese

*Industry Economist
Business and Defense Services
Administration*

Clarity of thought, analytical ingenuity, precision and tenacity in execution and devotion to the public interest characterize Miss Deese's performance of all assigned responsibilities. Typically, 1965 through mid-1968, Miss Deese effectively and efficiently carried the major responsibilities within Commerce for economic analysis of developments stemming from the US/Canada Automotive Products Agreement and implementing legislation. An outstanding study of the impact of a possible automotive industry strike brought many commendations in December 1967. Her research, 1966-1968, pointed the way to improvement of OECD statistics for the engineering industries and its products by elimination of double counting.

Konstantine L. Kollar

*Director, Water Resources &
Engineering Services
Business and Defense Services
Administration*

Mr. Kollar, recognizing that Federal and local government policies and procedures for planning and developing water and related land resources in the past had inadequately dealt with the important factor of industrial water use, conceived a comprehensive program for assessing and projecting industrial water requirements on a national basis. Through his participation in meetings of the Water Resources Council and River Basin Commissions and his assistance to the Council in the preparation of the National Assessment, he brought this need into focus and demonstrated the key role that BDSA can fill in this national program. As a result, the Department of Commerce (BDSA) was designated as lead agency to prepare industrial water requirements studies in all major river basins. Mr. Kollar has also made major contributions to the export of engineering services.

Wesley R. Koster

*Director, Chemicals Division
Business and Defense Services
Administration*

Through outstanding qualities of leadership over a period of more than 25 years, Mr. Koster has made the Department of Commerce a constructive force in its varied activities dealing with the chemicals industry and its products. In every aspect of national concern about chemicals—in defense and mobilization programs, in the fostering of the growth of the US chemicals industry, and in the promotion of international trade and understanding—he has brought to bear the benefit of his experience, perception, and balance. In various international as well as domestic forums his consistently diligent and expert approach to the complicated problems of a diverse and complex industry has been a credit to the Department and to all concerned.

Emanuel A. Lipscomb

*Director, Trade Analysis Division
Business and Defense Services
Administration*

Mr. Lipscomb has successfully developed and directed the Department's statistical and economic programs for negotiation and administration of the international textile programs. He has developed and published widely-used and highly-technical statistical summaries, economic analyses and classification manuals. He has also represented the United States in international consultations and in areas of domestic concern.

Allan H. Young

*Supervisory Economist
Office of Business Economics*

Mr. Young has made major contributions to the work of the Office of Business Economics in several areas—price indexes; alternative estimates of depreciation, profits, and capital stocks; and seasonal adjustment. He has published major research articles in the *Survey of Current Business*. Moreover, his computer programming work has resulted in large savings to the Office.

Charles W. Baker

*Supervisory Employee Development
Specialist
Bureau of the Census*

Mr. Baker has demonstrated exceptional skill over a period of years in developing effective technical and administrative training programs for various censuses and survey programs. He has contributed significantly to the formulation of enumerator training programs for the 1960 Census, the 1964 Agriculture Census, a number of special censuses and the upcoming 1970 Census. The excellent results obtained from these training programs has immeasurably influenced the quality of the censuses. Additionally, Mr. Baker has been recognized by Bureau officials as a person with unusual administrative ability and a vast knowledge of census field operations. Because of this talent he has been repeatedly asked to serve in key supervisory assignments during the censuses, most of which were far beyond the normal call of duty.

Don L. Coffey

*Supervisory Computer Systems
Analyst
Bureau of the Census*

For more than two decades, Mr. Coffey has employed his exceptional abilities to advance data processing methods and to utilize electronic accounting and large-scale computing equipment in the conduct of statistical surveys and periodic censuses. He has made outstanding contributions through technical proficiency and creativity in the analysis, design, and implementation of data processing systems for a broad spectrum of the Bureau's vast subject matter areas. Some of these areas are demography, agriculture, foreign trade, business, industry, construction, and transportation. These attainments have been achieved through effective application of his expertise and leadership combined with skills of accuracy, reliability, and progressiveness.

George E. Hall

*Assistant Chief for Special Surveys
Bureau of the Census*

Mr. Hall has demonstrated exceptional leadership and technical proficiency in the design, development, and implementation of household surveys to meet the rapidly changing statistical needs of the nation. In particular, numerous complex new surveys have been developed and carried out under his guidance, which represent statistical landmarks in such fields as problems of the aged and disabled, recreational needs of the population, and cohort studies of labor mobility.

Sherman Landau

*Supervisory Statistician
(Social Science)
Bureau of the Census*

Mr. Landau is being cited for outstanding contribution to the technology and administration of the program of State and local governmental statistics by introducing automatic data processing methods into the annual sample survey programs and the quinquennial Censuses of Governments of 1957, 1962, and 1967. Introduction of these methods have enhanced substantially the Bureau of the Census' ability to retrieve governmental data and to respond to the needs of users of these data.

Cecil B. Matthews

*Administrative and Publications
Program Manager
Bureau of the Census*

Mr. Matthews has shown dynamic leadership and initiative in the fields of administrative services and publications management. His enthusiasm and creativity have resulted in many outstanding program improvements and innovations. He has demonstrated an ability to manage the diverse programs of his division with exceptional skill and has a unique ability to develop and inspire his staff. Under his direction, the Bureau of the Census is recognized for its excellence in administrative management and publication design.

William E. Stiver

*Chief, Budget and Finance Division
Bureau of the Census*

Mr. Stiver is being recognized for his outstanding achievements in the field of financial program management. Under his expert guidance and leadership, new techniques have been developed and implemented which yield reliable forecasts of the financial resources necessary to carry out Bureau programs. An excellent example is the internal cost based budgeting system now in operation which provides an accurate financial reflection of past, present, and future program and operating decisions. Mr. Stiver's exceptional knowledge and understanding of both the financial and operational aspects of conducting a decennial census have been of immeasurable value in preparations for the 19th Decennial Census. His recommendations have resulted in measures that make for a highly efficient documentation of costs that will greatly enhance the 19th Decennial Census and future census planning.

Hubert A. Yerkey

*Regional Director
Detroit, Michigan
Bureau of the Census*

Mr. Yerkey is being recognized for the highly competent manner in which he has performed as Regional Director of the Detroit Regional Office. His excellent qualities of leadership are exemplified by significant accomplishments in the areas of staff development and improved utilization of supervisory staff. To meet the demands of an increasing workload, Mr. Yerkey pioneered in the use of part-time senior interviewers in carrying out routine supervisory functions such as observation of new interviewers and conducting reinterviews to verify the accuracy of an interviewer's work. This has resulted in freeing professional staff members for less routine and more substantive work. The "senior interviewer" principle has been so successful that it is now operational in all twelve regional offices.

Address Coding Guide Group

*Geography Division
Bureau of the Census*

The members of this group, Jacob Silver, Silla G. Tomasi, Robert W. Marx, and Larry W. Carbaugh, are commended for successfully completing an important phase of the development of Address Coding Guides for 145 Standard Metropolitan Statistical Areas. They conceived and implemented a program of obtaining assistance from local planning agencies in reviewing and inserting information for seven million computer coding records. The Address Coding Guide Program, of which local coding was a key element, has resulted in the creation of a computerized geographic coding system including approximately 50% of the population of the U.S. The coding guides are now available indefinitely and have long range benefits not only to the Department and the Bureau, but for planning and data analysis activities in the Federal, State, local and private sectors.

Robert C. Baskin

*Chief, Weather Analysis &
Prediction Branch
Kansas City, Missouri
Environmental Science Services
Administration*

Mr. Baskin is recognized for exceptional initiative, imagination, and resourcefulness in the direction of highly significant program advancements in three critical weather service areas: (1) the marine weather service for the western Great Lakes, (2) the tornado spotter network in the Midwest and Upper Great Plains, and (3) the air pollution potential forecast service in Chicago and St. Louis. Mr. Baskin's efforts exhibited an exceptionally thorough knowledge of the three widely diverse technical programs. In the areas of marine weather service and the tornado spotter network, he contributed materially to the protection of life and property.

Jean A. Brown

*Principal Assistant
San Francisco, California
Environmental Science Services
Administration*

Mr. Brown has made valuable contributions in the fields of weather service to aviation and hurricane forecasting. These contributions have been both in the technical and operational phases. He devised a system of analysis which produced the best available high level charts for the data-sparse Pacific and has proposed many improved operational procedures for weather service to trans-Pacific flight operations which have been adopted both by the aviation industry and Government agencies. He has provided technical leadership in the application of satellite pictures to hurricane forecasting in the East Pacific Ocean. He is recognized nationally in the field of weather analysis and forecasting.

Alfonso H. Butera

*Chief, Spacecraft Operations Control
Center*

*Environmental Science Services
Administration*

Mr. Butera is recognized for distinguished performance in the planning, staffing, and operation of the Spacecraft Operations Control Center of the National Environmental Satellite Center/ESSA at Suitland, Maryland. Mr. Butera recruited and trained the personnel, established the operational procedures for controlling the spacecraft, and commenced routine operations in little more than half a year. The subsequent years of operations have established the control center as an especially reliable and effective facility, with a well-deserved reputation for competence and professionalism in the operation of this full-time satellite data collecting system. Mr. Butera has demonstrated exceptional technical skill and administrative ability in directing the first satellite control center staffed by civil servants.

Bernard F. Cooke

Chief, Visual Chart Branch

*Environmental Science Services
Administration*

Mr. Cooke has made major contributions to national aeronautical navigation charting programs, making use of his cartographic skill, thorough specialized knowledge, and his participation in the Inter-Agency Air Cartographic Committee. He has initiated and evaluated proposals to improve specifications and reach agreement on the joint use of charts to meet the requirements of both civil and military aviation.

Mr. Cooke deserves high praise for his demonstration of exceptional leadership and organizational ability in the planning, production, and assignment of personnel to respond quickly to the increasing and constantly changing requirements of air navigation.

Stanley B. Eames

*Director, Public Information Office
Environmental Science Services
Administration*

Mr. Eames' consistent achievement of results in publicizing ESSA's valuable service programs through the press, radio, television, films, and its own publications has been outstanding. Mr. Eames has developed particularly effective and extensive educational campaigns in those ESSA programs designed to protect public safety, notably the SKYWARN effort promoting tornado preparedness. Publications and film efforts have been of exceptionally high caliber, winning numerous awards in government-wide competition. His dynamic approach to responsibilities and his highly professional production of new and imaginative programs have been of great benefit to ESSA and the entire Federal government.

Henry E. Fleming

*Mathematician
Environmental Science Services
Administration*

Mr. Fleming is recognized for unique contributions to the mathematical procedures necessary for the conversion of SIRS (Satellite Infrared Radiometer Spectrometer) radiance data into atmospheric temperature profiles. The ability to provide atmospheric temperature soundings from a satellite is dependent upon a satisfactory means of reducing the data. In this instance, an exact solution is not possible and at the outset of the program in 1959, there was no acceptable solution available. Mr. Fleming, working with Dr. David Wark, has investigated numerous approaches, selected and developed an effective method. The final test came from the SIRS aboard NIMBUS III which demonstrated that the data provided by Mr. Fleming's process was as good as the experimental error expected in the radiosonde data which is at present the only available standard of comparison.

E. Vernon Hendrickson

*Meteorologist in Charge
Fargo, North Dakota
Environmental Science Services
Administration*

Mr. Hendrickson rendered outstanding flood warning services in connection with the serious snowmelt flood on the Red River of the North during April, 1969. Mr. Hendrickson's activities in this respect began over 5 years ago when he established and set into excellent operation a basic river stage, rainfall and water content of snow cover reporting network. This network was maintained in shipshape operating condition over the years and was thoroughly ready for this spring's flood. Mr. Hendrickson worked closely and effectively with State and Federal agencies as well as with community officials in the dissemination of flood warnings and the coordination of flood preparation activities at over 30 municipalities in the Red River Basin.

Charles D. Kearse

*Electronics Development Technician
Miami, Florida
Environmental Science Services
Administration*

Mr. Kearse has made major contributions to the formation of the unique ocean engineering field laboratory in Miami and to the development of instruments having the ruggedness necessary for use in the hostile environment of the sea. An expert in the field of water velocity measurements, Mr. Kearse has contributed substantially to the development of systems for sensing and recording ocean currents, salinity, and temperature measured at remote buoys. Mr. Kearse has especially contributed to the TICUS system, the most advanced estuarine current measuring system now used by hydrographic ships for estuarine studies. His technical knowledge, logical and forceful presentation of facts, and aggressive pursuit of objectives have been strong factors in enabling the Coast and Geodetic Survey to meet its many hydrographic responsibilities.

William R. Long

*Meteorologist (F&T) Forecaster
Pittsburgh, Pennsylvania
Environmental Science Services
Administration*

Mr. Long has shown outstanding leadership, management ability, and initiative in contributing to the establishment of an interagency river basin management program. This was the first effort in a planned collaboration between a Weather Bureau Office and a River Basin Commission. As such, there were no existing precedents to serve as guidelines in establishing the cooperative endeavor. Mr. Long's highly efficient approach in assisting in the formation of this pioneer program was instrumental in developing the ground rules for future programs of this nature. His tireless efforts, expended under difficult and trying circumstances, clearly contributed to the savings of life and property during the May, 1968 floods in New Jersey.

Barbara McKain

*Meteorologist in Charge
Norfolk, Nebraska
Environmental Science Services
Administration*

Miss McKain demonstrated exceptional resourcefulness during the severe Nebraska snowstorm of December 21-23, 1968, by recognizing in the early evening hours of the 21st that an approaching storm would develop into a severe blizzard in the Norfolk, Nebraska area. Miss McKain manned the Norfolk Weather Bureau Office almost single-handedly from 5 p.m., December 21 through most of December 23, issuing warnings & storm reports and continuing other essential services for 42 consecutive hours. Street and highway conditions made it impossible for other employees to reach the office during this period. Miss McKain again demonstrated her unusual competence and exceptional resourcefulness during the heavy spring, 1969 floods in the Norfolk area.

James F. O'Connor

*Chief, Forecast Branch
Environmental Science Services
Administration*

Mr. O'Connor's experimentation with an advanced numerical weather prediction model has opened up new possibilities for more detailed extended predictions and is leading to implementation of plans designed to improve service to the American public. Special predictions which were effected by this ingenious adaptation included forecasts for the 1969 floods in the Northern Plains, the Apollo space flights, national holidays, and the Presidential inauguration. Mr. O'Connor has performed exceptionally in the administration and supervision of many division activities, has been effective in elucidating difficult concepts for the press, radio, and TV, and has shown leadership and personality traits marking him as an excellent public servant.

Morton J. Rubin

*Senior Scientist
Environmental Science Services
Administration*

Mr. Morton Rubin has performed an outstanding job in projecting the Commerce Department's role in the marine sciences through his work with the Marine Council and the Marine Commission in developing a comprehensive, long-range, coordinated national program in marine science. In polar scientific activities, he has been responsible for assisting the National Science Foundation develop the total United States' meteorological program in Antarctica and coordinate the total U.S. research effort in the Arctic. By his dedicated service and professional competence, Mr. Rubin has contributed greatly to the Department's image in national and international fields of marine science and polar meteorology.

Leonard W. Snellman

*Chief, Scientific Services Division
Salt Lake City, Utah
Environmental Science Services
Administration*

Mr. Snellman has provided dynamic leadership in the improvement of the practice of meteorology in the field forecast offices of the Weather Bureau. He has opened fresh perspectives with proportional importance given to all factors bearing on the weather prediction problem. These accomplishments have been largely attained through an active field visitations program. This program has provided clinical instruction to ensure full understanding and utilization of every meteorological message inherent in the National Meteorological Center's computer products, which are based on sophisticated atmospheric modeling. Mr. Snellman has been a leader in the maximum utilization of weather satellite products to improve upon the analysis and interpretation of current weather conditions as they relate to weather prediction. He has authored many short articles on a variety of current weather topics, aimed at stimulating meteorological thought among practicing forecasters and motivating maximum use of numerical weather prediction products and of weather satellite data. His significant contributions are well recognized among the members of the national meteorological community.

John D. Stackpole

*Principal Research Meteorologist
Environmental Science Services
Administration*

During his five years in the Development Division of the National Meteorological Center, Mr. Stackpole has been highly productive in a wide variety of projects affecting the quality and content of round-the-clock guidance material sent to the weather forecasters throughout the Nation. He has been responsible for virtually all of the improvements during the past two years in the Center's numerical weather prediction model. The mathematical model is the core of the operation at the Center. Its development and improvement have been key factors in the improvement in the quality of the Center's products. This in turn has been reflected in benefits to the Nation through more accurate weather forecasts and warnings.

Lockett E. Wood

*Physicist
Boulder, Colorado
Environmental Science Services
Administration*

Mr. Wood is recognized for his continued outstanding research in electro-magnetic wave propagation. The inventiveness, industry, and competence demonstrated by Mr. Wood have contributed significantly to the Nation's progress in missile and satellite tracking technology and in the application of electronic techniques to geodesy. He has invented and developed several microwave-optical instruments for which patents have been granted. The results of his inventions are of major significance to the Department of Commerce and the Department of Defense, where precise geodetic work and satellite and missile tracking are vital.

River Forecast Center

*Weather Bureau
Kansas City, Missouri
Environmental Science Services
Administration*

Russell G. Mann, Robert N. Craig, Dale G. Lillie, Robert H. Dickson, Lewis P. Hahn, Earl A. Johnson, Charles K. Nevins, Delmar J. Taylor, William M. Willard, Miss Dorothy B. Tudor, Mrs. Marceline L. Mayfield, Elroy C. Balke, Miss Helen L. Berridge of the Kansas City River Forecast Center and Regional Headquarters staffs of the ESSA Weather Bureau were responsible for preparing and disseminating very timely, outstandingly accurate, and highly useful river stage outlooks and flood warnings in connection with the widespread Upper Midwest snowmelt floods during the spring of 1969. This outlook, of expected river stages in the river basins of the Upper Midwest, was issued more than a month in advance of the actual occurrence of the snowmelt floods. This team was also extremely effective in issuing and updating the more specific one, two, and three-day river stage forecasts and warnings on a day-by-day basis as the rivers rose to flood stage, crested, and then receded.

Bomex Project

Environmental Science Services Administration

ESSA, the lead agency for Project BOMEX, was responsible for the overall coordination and management of this experiment, which included the participation of 1,500 scientists and technicians, the Government of Barbados, 19 universities, seven Federal agencies, and other groups. Capt. Howard S. Cole, Mr. Terry de la Moriniere, Dr. Arnold H. Glaser, Cdr. James G. Grunwell, Capt. Hubert W. Keith, Jr., Cdr. Kenneth MacDonald, Capt. Merlyn E. Natto, Mr. Orville E. Scribner, Mr. Donald B. Seeko, Cdr. Kelly E. Taggart, Mr. Loran A. Weaver, Cdr. Robert E. Williams, and Mr. Scott Williams worked strenuously to meet the scientific and technical requirements of all these groups. Through delicate negotiation and compromise, they were successful in achieving a friction-free reciprocal relationship with the other Federal agencies. Because of this team effort, the role and the image of the Commerce Department as a program agency of the Government were greatly enhanced and a far-reaching and complex scientific experiment was carried out in an outstanding manner.

Alfred L. Rascher, Jr.

*Director, Field Office
St. Louis, Missouri
Office of Field Services*

Mr. Rascher has performed his duties as Director of the St. Louis Field Office in a superior manner during the past ten years. He is an outstanding administrator and the achievements of his office have inspired many of the Field Offices to improve the quality and quantity of their work. His entire service in the Department of Commerce has brought great credit to the Department and has had a very beneficial effect on the Nation's economy.

Davis A. Kearns-Preston

*Director, Near East-South Asia
Division
Bureau of International Commerce*

Mr. Kearns-Preston is awarded the Silver Medal of the U. S. Department of Commerce in recognition of his distinguished service over many years in furthering the interests of the United States in its economic and commercial relations with the countries of the Near East and South Asia and for his accomplishments in protecting and advancing the position of the U.S. business community in that area.

Frederick Strauss

*Director, European Division
Bureau of International Commerce*

Mr. Frederick Strauss is awarded the Silver Medal of the U.S. Department of Commerce in grateful recognition of his outstanding contribution and effectiveness over many years in advancing U.S. commercial and economic interest in the European area, and in providing support and counsel to policy officials of the Department on complex matters important to the national interest.

Donald C. Haselton

*Supervisory Marine Surveyor
San Francisco, California
Maritime Administration*

Mr. Haselton has exhibited exceptional technical judgment and a consistently high level of performance in excess of the requirements of his position. He is recognized by the industry as an expert in the field of ship repair cost estimating and has an outstanding record of effectiveness in the Southeast Asia Program. His leadership and direction of technical staff; his successful negotiation and settlement of many difficult, complex, and controversial disputed repair contracts; and his unusually effective participation in critical inter-industry-government relationships involving GAA ship repairs has been a vital factor in the establishment of the District's record of meeting ship schedules and having the lowest average voyage repair costs in the Agency. All in all his has been a truly outstanding record of accomplishment.

John A. Murtha

*Maritime Area Operations
Representative
Yokohama, Japan
Maritime Administration*

Mr. Murtha's exemplary performance of duties in the husbanding and repairing of Government-owned General Agent operated vessels in the Japan area, has resulted in effecting economies in the operation of these ships. He has applied his skills with great diligence far above those normally encountered in industry or in Government to coordinate the movement of these ships without delay. His dedicated cooperation with all concerned has solved many difficult day-to-day problems.

Beaumont Reserve Fleet

*Beaumont, Texas
Maritime Administration*

Messrs. Jules V. Bech, George V. Woddail, Jr., Louis P. Cenicerros, Elmer Jasper, Frank A. Penna, Jr., John S. Lozano, and Rodolfo Vara are recognized for their valorous fire-fighting activities on June 20, 1969. Under extremely difficult and hazardous conditions, they combated a wharf side conflagration on the Neches River.

Esther M. Bridgeford

*Legislative Reference Assistant
Office of the General Counsel
Office of the Secretary*

Miss Bridgeford, during her 13 years with the Office of the General Counsel, has made significant contributions to the efficient operation of the varied and complex legislative activities of the Department. Her original and simplified systems for indexing and cross-indexing legislative files and related material have been of tremendous value to attorneys and others in the Department who have responsibility for the preparation of Departmental reports on legislation. Her knowledge of the whole legislative process has been of inestimable value to the legislative reporting activities of the Department. From time to time she is consulted by legislative offices of other departments for advice and assistance in improving their legislative file and related systems.

Robert B. Ellert

*Assistant General Counsel for
Science and Technology
Office of the General Counsel
Office of the Secretary*

Mr. Ellert has demonstrated extraordinary ability and professional skill as the Department's Assistant General Counsel for Science and Technology. He was the legal architect and prime motivational force behind the Flammable Fabrics Act Amendments of 1967—amendments which will have an enduring impact on the health and safety of all Americans. He has likewise contributed significantly to the enactment of legislation involving the World Weather Program, the Metric Study, and the National Commission on Product Safety. Mr. Ellert has additionally distinguished both himself and the Department through his rare proficiency and knowledge in solving a variety of legal problems in the fields of international law, oceanography, and weather modification.

Edgar A. Turpin

*Deputy Assistant General Counsel
for Legislation
Office of the General Counsel
Office of the Secretary*

During his 17 years with the Office of the General Counsel, Mr. Turpin has demonstrated exceptional skill and ability in the performance of legal services connected with the varied and complex legislative activities of the Department. Recently, he served as the principal legal architect of the Executive Order on Minority Business Enterprise which was issued early in 1969. This order resulted in the establishment of the Office of Minority Business Enterprise in the Department of Commerce. During his years with the Office of the General Counsel he has consistently exhibited rare judgment and knowledge in the entire legislative spectrum. He has distinguished both himself and the Department by his overall excellence and achievements as a Government lawyer.

Raymond D. Berendt

*Physicist
National Bureau of Standards*

Mr. Berendt has served with distinction as technical advisor to, and member of, the Task Force on Noise of the Committee on Environmental Quality of the Federal Council for Science and Technology, the report of which represents current government policy on noise abatement. He was also the Government's technical representative on the Commerce Technical Advisory Board Noise Abatement Panel. He is the senior author of a unique handbook on noise control in multifamily dwellings, in current use by FHA, schools, and the building community.

Randall S. Caswell

*Deputy Director
Center for Radiation Research
National Bureau of Standards*

Dr. Caswell is recognized for outstanding scientific administration under difficult and austere conditions of the former Radiation Physics Division of the National Bureau of Standards and its successful incorporation into the newly formed NBS Center for Radiation Research. He is commended for continued high level management of the Center during its first year of operation.

Bernadine L. Dunfee

*Physicist
National Bureau of Standards*

Mrs. Dunfee is well known for her outstanding ability and effectiveness in advancing the NBS program of voltage-ratio and current-ratio measurements, and in particular for developing new highly accurate d-c voltage dividers and a-c current transformers, as well as test sets and techniques for calibrating them. These developments have brought greater accuracy in ratio measurements to many standards laboratories, while reducing the dependence on NBS for routine calibrations.

David H. Freeman

*Supervisory Research Chemist
National Bureau of Standards*

Dr. Freeman has provided original and highly meritorious approaches to the solution of long-standing problems in the determination of ultra-traces. Through his efforts, a pure reagents service designed to meet the special needs of trace analysis was established. His fundamental studies of ion-exchange processes led to an improved understanding of the relation between resin structure and stability of ion-resin complexes. In them he found the key to the development of a new type of chemical micro-standard which makes possible the accurate sampling of unweighable amounts of chemical substances.

Leonard S. Hardland

*Manager, Invention Programs
National Bureau of Standards*

Mr. Hardland has served with dedication and extraordinary ability for 28 years as administrator of the Inventions Program. Through unique character, training, and experience, he has provided outstanding service to independent inventors, to State Inventors Programs, to the National Inventors Council, and to the Department of Commerce.

William L. McLaughlin

*Physicist
National Bureau of Standards*

Mr. McLaughlin is recommended for the Silver Medal award because of his unusual initiative and outstanding success in seeking out and responding to the needs of the community of radiation users. His independent investigations of practical dosimetry methods for the radiation processing industry have furnished a basis for future standard dosimetric techniques and materials. He has throughout the years shown a high order of skill and ingenuity in developing new techniques of dosimetry and radiation imaging methods and in applying known methods in novel ways.

Allan J. Melmed

*Physicist (Solid-State)
National Bureau of Standards*

Dr. Allan J. Melmed is internationally recognized for his development of a number of powerful tools used in the study of the physics and chemistry of metal surfaces. His development of the technique of epitaxial growth of many metals on field emission tips has made possible the study of surface reactions on technologically important metals that previously could not be studied by field emission. He has pioneered in the development of highly useful combinations of different techniques that enable the simultaneous study of structure, morphology, work function, and kinetics of film growth. These developments contribute importantly to an understanding of the initial stages of corrosion.

Albert Napolitano

*Ceramic Engineer
National Bureau of Standards*

Mr. Napolitano has made a valuable contribution to the field of high-temperature viscometry and calibration techniques by designing and supervising the construction of a high precision rotating cylinder viscometer for use in the range from 10^2 to 10^6 poises. Later he devised other modes of operation, by observing the decay of the inner cylinder with the outer cylinder at rest, to extend the range of the viscometer to 10^{10} poises. These procedures represent a new technique for viscosity determinations in this range. As a result of this work, seven glasses are now available as standard reference materials for high-temperature viscosity. These standards are very important to the glass industry, which spends over one million dollars per year in monitoring the viscosity of glass in the various stages of manufacture.

Frank W. J. Olver

*Mathematician
National Bureau of Standards*

Dr. Olver has gained renown as the author of over thirty papers on numerical and asymptotic analysis, one of which provided fundamental contributions to the analysis of error in numerical computation by high-speed electronic calculating machines. His scholarly and important publications have added to the high scientific reputation of the National Bureau of Standards. He has also made significant contributions to science and technology through applied research in the fields of successive approximation theory and special functions, both of key importance in physics and engineering.

Chester I. Pope

*Research Chemist
National Bureau of Standards*

Recently archivists and the microfilm industry were alarmed to discover blemishes on microfilms of permanent value. The cause of the blemishes was unknown. By keen observation, well-designed experiments, and careful deduction, Mr. Pope discovered that the films were attacked by barely detectable amounts of gases slowly evolved in the paper cartons in which the films were stored. He developed new techniques, making important contributions to paper chemistry, as well as photographic chemistry. On the basis of his discoveries, national and international standards for archival microfilming are being revised, and microfilming for preservation can be resumed with confidence.

Joan Raup Rosenblatt

*Supervisory Mathematician
National Bureau of Standards*

Dr. Rosenblatt's sustained superior performance, outstandingly effective leadership, and application of advanced statistical methodology, have furthered the technical programs of the National Bureau of Standards and other Government agencies. Her distinguished service to the statistical profession as officer, organizer, editor, writer, and lecturer, contributed to the high scientific reputation of the National Bureau of Standards.

Robert Schaffer

*Chief, Organic Chemistry Section
National Bureau of Standards*

Dr. Schaffer has made contributions of unusual value to science and to the Department through research in synthetic and structural organic chemistry, by building an effective group in support of Division activities, and for his major role in organizing an experimental program for the development of clinical standards. His original research has led to practical means for producing carbohydrates of importance in biomedicine. As a new section chief, he has built an effective unit providing broad support to the Bureau's mission. A major program on clinical laboratory standards which he organized promises to have a profound impact on the reliability of clinical test procedures.

John C. Schleter

*Physicist
National Bureau of Standards*

Mr. Schleter is recognized for his outstanding application of high-speed data-accumulation and processing techniques to reduction of spectrophotometric data to colorimetric terms. He has recorded such data in graphical form, so as to accelerate the studies of systems of material color standards and to make the results immediately accessible.

James E. Skillington

*Budget Officer
National Bureau of Standards*

During nine years of service as the Budget Officer of NBS, Dr. Skillington has made significant improvements in all aspects of budgetary practice. National Bureau of Standards budget presentations to appropriate Congressional Committees, a task made increasingly more difficult by the complex and diverse nature of the Bureau's programs, have been much more explicit, better structured, and more relevant to national needs. The job of integrating program planning and evaluation into the budgetary process has been achieved with minimum difficulty at the Bureau. This is in part due to his outstanding leadership, objectivity, and thorough professional approach.

Sidney Straus

*Chemist
National Bureau of Standards*

Mr. Straus has made valuable and extensive investigations of the processes whereby polymers degrade and volatilize at high temperatures. He is recognized particularly for his measurement of their rates of volatilization and for the identification of the volatilized species.

Wilbur C. Sze

*Electrical Engineer
National Bureau of Standards*

Mr. Sze has done outstanding research in exploring the capabilities and exploiting the use of the inductive voltage divider in the electrical measurements field. Utilizing relatively new high-permeability core materials, the inductive divider is gaining increasingly wide use in precision audio frequency measurements. Mr. Sze's significant contributions in evaluating the performance of these devices, in improving their design, and in extending their usefulness have earned him an international reputation. As a result of his research, the assured accuracy of measurements possible with these devices has increased immeasurably.

Douglas R. Tate

*Physicist
National Bureau of Standards*

Mr. Tate planned and carried out the difficult experiments required to determine the absolute value of acceleration due to gravity at a particular point on earth. The analyses of the results demonstrated the high precision of this new value and indicated that it ranks among the best of the values determined in the national standards laboratories of other countries during the past fifteen years. This improved value of acceleration due to gravity will contribute to better standards of pressure, force, and the ampere and will assist geodesists with their surveys of the earth's shape and density.

Estal D. West

*Physicist
National Bureau of Standards*

Dr. West is recognized for scientific leadership in both theory and practice of accurate heat measurements, especially at high temperatures. Dr. West has successfully advanced the theory of calorimetric measurements and shown that many previously accepted values were in error because of lack of understanding of theory. He has applied his theory to accurate high-temperature measurements of enthalpy, heat capacity, and heat of fusion. Using a new apparatus he developed, he has made accurate heat measurements on graphite and tungsten up to about 4000°F which will serve as standards for the field. With his numerous publications, invited lectures, and consulting activities, he has made the National Bureau of Standards the leader in accurate calorimetric measurements at very high temperatures.

Sheldon M. Wiederhorn

*Supervisory Research Chemist
National Bureau of Standards*

Dr. Wiederhorn has made a very valuable contribution to the field of fracture of brittle materials through his studies of crack propagation as a function of stress, composition of sample, environment, and temperature. He developed and extended the double cantilever cleavage technique to the point where it can be used for quantitative studies of crack velocity.

SPECIAL ACHIEVEMENT AWARD

H. Dean Parry

*Equipment Development Laboratory
Environmental Science Services
Administration*

Mr. Parry, a Professional Meteorologist, developed a computer program which has proven easily usable in assisting the Weather Bureau Upper Air Observer in performing the calculations necessary in the reduction of upper air data. After turning the project over to the operations staff, Mr. Parry continued to assist and participate in testing and evaluating the system and in making further improvements. Much of this work was over and above the requirements of his regular position and performed on his own time.

Savings which will be realized from the use of this program are estimated to exceed \$100,000 per year.

SUGGESTION AWARDS

Doris B. Shaughnessy

*Geography Clerk
Jeffersonville, Indiana
Bureau of the Census*

Mrs. Shaughnessy's suggestion minimizes the number of entries associated with the preparation of Forms GEO-70-46B and BC 1861. These forms are prepared in conjunction with the preparation of the Geographic Reference File for the 1970 Census of Population and Housing. The estimated first year's savings as the result of the adoption of this suggestion are expected to be \$7,000.

Greenville L. Wright, Jr.

*Investigator, Compliance Division
Economic Development
Administration*

Mr. Greenville L. Wright, Jr. suggested that during 1970 one week be proclaimed as "Department of Commerce Week," allowing people in and out of Government a greater exposure to the Department. During this week

each of the various organizations of the Department would show through exhibits, audio visual aids, etc., illustrations of their mission and accomplishments.

William E. Pointer

*Machine Operator
Patent Office*

Mr. William E. Pointer modified the two Alves Cutters in the Document Services Branch making it possible for them to be used both manually and automatically. These cutters are used for cutting the roll copies of U.S. Patents reproduced from film cards used in the new Patent Fulfillment System. As a result, 16 man-hours each day, of a GS-3's time (two shifts), is being utilized elsewhere, resulting in a savings of \$20,980.

Vera E. Ritenour

*Supervisory Program Analyst
and*

Marjorie M. Goddard

*Program Analyst
National Bureau of Standards*

To improve customer relations and promote good will, a new method has been developed to help reduce customer complaints on non-receipt of orders. This new method was suggested by Mrs. Ritenour and Mrs. Goddard. Presently a delay notice is sent only when the document is on "second reprint." A clerk handwrites pertinent information, i.e., customer address, document description, etc., on a postcard. By using pre-printed "delay order forms" the original order coupon is super-imposed on the face of the form, eliminating need for manual transfer of information. These self-mailer forms are sent immediately on *all* delayed orders. A time study shows a ratio of 15 to 1 using this new method. This method will speed notification to the customer, reduce in-house time needed to followup on delayed orders, and allow a cost savings or avoidance of \$45,000 annually.