MELPAR-A-GRAPH

MELPAR, INC. • A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE CO.

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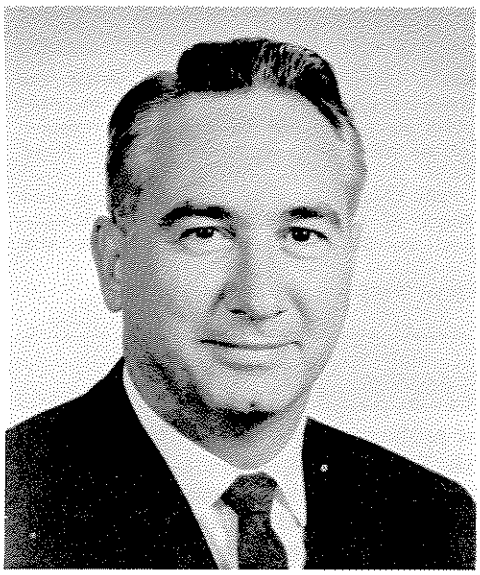
W. C. PURPLE NAMED GENERAL MANAGER

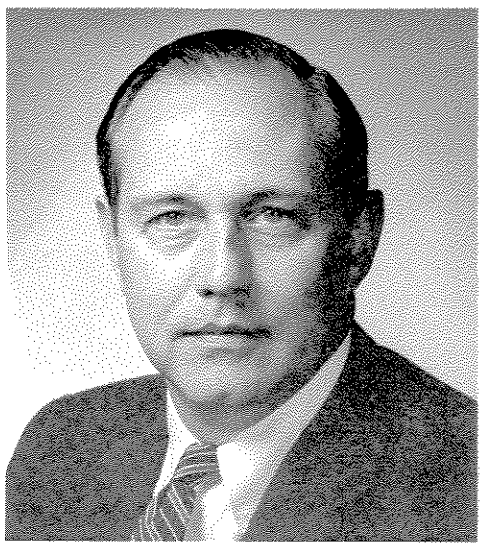


William C. Purple, Jr.

LINCOLN BROWN ELECTED VP FOR CONTRACT MANAGEMENT; J. P. CHAMBERS NEW SECRETARY OF CORPORATION

The appointment of W. C. Purple, Jr., as Vice President and General Manager of Melpar was announced by President and Chief Executive Officer Edward M. Bostick on June 7. Formerly Vice President for Engineering and Manufacturing, Mr. Purple in his new position is responsible to the Chief Executive Officer for the management of all technical and administrative elements of the Corporation, finance excluded.

Lincoln Brown



J. Pierce Chambers

"This appointment is a major step in keeping pace with the Government Defense and Space agencies' cost-reduction and performance policies and programs," Mr. Bostick said. "With these agencies requesting more fixed-price development contracts and also requiring an overall research, development, and manufacturing capability, it was necessary for Melpar to provide the organizational competence required by these policies and programs."

Although Mr. Purple is only 37, his experience cuts across all technical and management activities associated with the design, development, and production of advanced systems. He started with Melpar in 1947 as an electrical engineer, and in the next few years, worked on the design and development of sonobuoy and sonar training equipment, analog-to digital converters, target data distribution equipment, terminal multiplexing

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MILTON ALLEN RECEIVES HONORARY SC.D. DEGREE

Milton J. Allen, Research Associate in the Chemistry and Life Sciences Department, was awarded the honorary Doctor of Science degree by Monmouth College, Monmouth, Illinois, on May 5.

In conferring the degree on Dr. Allen, President Robert W. Gibson of Monmouth characterized him as a "distinguished scientist and scholar, famed for research in pharmacology, medicine, and organic and electro chemistry, whose teaching and research have been recognized by universities and professional societies in Asia and Europe."

The convocation at which the degree was awarded ended the Monmouth Liberal Arts Festival, on the theme "The Orient in World Affairs." On May 4, Dr. Allen, one of the principal speakers of the festival, presented an address entitled "Scientific Progress in the Major Asian Countries and Its Effect on Their Development."

Dr. Allen, who received a Ph.D. in ysical chemistry from the Johns Hopkins University in 1949, has held lectureships at the universities of Madras, Kyoto, Tokyo, and Liege, among others. He is the author of numerous profes-

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Melpar Awarded Half-Million Dollar Contract for Research On Jet Fuel Contamination

Melpar was recently awarded a $575,000 three-year contract by the Aeronautical Systems Division of the Air Force to conduct research on the mechanism of microbiological and other contamination of jet fuels and to develop a method for rapid detection of the contamination.

Melpar will determine the characteristics of various contaminants, such as microorganisms, water, surface-active materials and solids, and develop techniques for the detection of low levels of the contaminants prior to the onset of any deleterious effects on fuel systems. Techniques involved in making these determinations must be both practical and reliable enough for routine aircraft application.

W. C. PURPLE (Continued from Page 1)

equipment, and a number of electronic and electromechanical devices, such as photoelectric scanners and magnetic memories. By January 1954 he had become, via the senior engineer—project engineer route, head of an engineering section. Equipment developed under his guidance led to one of Melpar's earliest large-scale production efforts.

In 1955 Mr. Purple was appointed Project Services Manager, taking over direction of Engineering Shops, Drafting, Publications, and other engineering support units. The next year saw him named Manager of the Production Division, a position in which he had overall technical and administrative responsibility for the Corporation's production programs. During his tenure as manager, these included the fabrication of data reconnaissance systems, flight simulators, countermeasures systems, radar systems, and beacons.

In February 1960 Mr. Purple was elected Vice President in Charge of Production, and in October 1960, was named Vice President for Engineering and Manufacturing.

Mr. Purple is a graduate of Princeton University, from which he received the Bachelor of Science in Electrical Engineering. He has done graduate work at the University of Maryland.

Board Elects Brown, Chambers

Following the announcement of Mr. Purple's appointment came the news that the Melpar Board of Directors had elected Lincoln Brown as Vice President for Contract Management and J. Pierce Chambers as Secretary of the Corporation.

Mr. Brown was formerly Director of Program Management. In that capacity he coordinated contractual work assigned to divisions under the Vice President for Engineering and Manufacturing. His directorate comprised three groups—Program Management, Production Control, and Program Administration. As Vice President for Contract Management he assumes responsibility for purchasing, contract administration, and budgetary matters, in addition to program management.

Mr. Brown joined the Melpar engineering staff in 1949, shortly after receiving the Bachelor of Electrical Engineering degree from the University of Florida. As engineer, project engineer, and section head, he participated in the design, development, and production of a variety of multiplex, digital, and other electronic systems and components. He was promoted to Manager of the Arlington Production Department in February 1959. In October 1960 his authority over manufacturing activities was broadened with his appointment as Production Division Manager. He became Director of Program Management in 1961.

Mr. Brown is a member of the IEEE and its Professional Group on Military Electronics and of Sigma Tau.

J. Pierce Chambers was elected corporate Secretary at a meeting of the Board of Directors on June 11th. Mr. Chambers is one of the company's 15 year service personnel and has served in positions in engineering, in engineering services, and more recently as Assistant to the Vice President for Contract Management. In his new capacity, he will report to Executive Vice President A. C. Weid.

Mr. Chambers attended V.M.I., Harvard's and M.I.T.'s graduate schools of engineering and served as a Marine Corps officer during World War II.

CARAU, POTTER, JONES RECEIVE SERVICE PINS. Frank L. Carau, Jr. (left), Claudia V. Potter, and Gwynne H. Jones, Jr., have been sporting new length-of-service pins since May 15. Mr. Carau, Head of the Measurement Standards Laboratory, observed his 15th anniversary with the Company last month and so was awarded a ruby-studded pin. Mrs. Potter, of the Manufacturing Division, and Mr. Jones, of the Engineering Division, rounded out a decade of service.

The pin presentation took place at a luncheon in the Falls Church Cafeteria. Those attending were Executive Vice President Arthur C. Weid; Mr. Carau; Robert G. Murrell, head of Mr. Carau's operating unit; Mr. Jones; David A. Kahn, head of Mr. Jones' operating unit; and Joan T. Lafrank. Mrs. Potter was unable to be present.

Statistical note: Fifteen-year service pins awarded to date total 19; 10-year service pins, 192.

Melpar Research Division Attracts Topnotch Scientists

The subjects under investigation by our Research Division are varied indeed—cometary materials, viruses, desalination, quantum theory, pattern recognition, optical radar, microelectronics, to name only a fraction of them. In line with the growing interest in basic and applied research on the part of those responsible for our national security, the Division has in the last few years broadened its horizons to include nearly all of the physical and life sciences.

The development of a method of detecting life on other planets is among the problems to which the Chemistry and Life Sciences Department is addressing itself. Others of its research projects concern the detection and identification of bacteria by novel methods, biological transducers, chemical modification of enzymes, synthesis of new inorganic polymers, pyrolytic deposition of materials for the fabrication of solid-state microelectronic circuits, photo-chemistry, and solion accelerometers.

In physics the range of subjects under investigation is equally broad: tunnel emission and Richardson-Schottky emission triodes and cathodes, thermo-electric and thermionic energy converters, coherent generation and amplification, hydro-magnetic waves, propagation through plasmas, MHD generators, solar and planetary radiation, thin-film active devices, new materials and processes, electroacoustics—and this list is by no means an exhaustive one.

So much for the diversity of our research work. What about the people who do it? Diversity is the keynote here, too, not only in the great variety of disciplines represented by all our scientists, but also in the cross-disciplinary capabilities of many of them. Take Dr. Jenny Bramley of the Applied Physics Research

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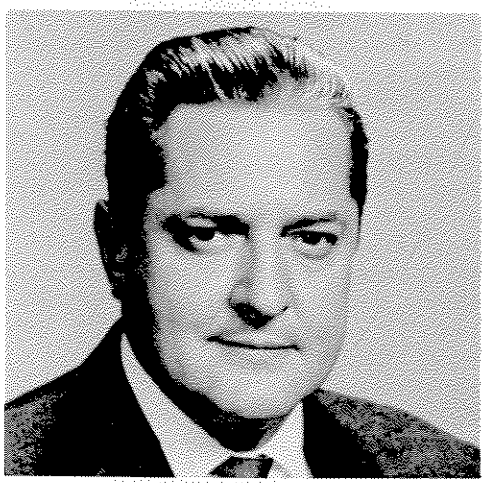
C. B. RAYBUCK AND L. A. SCHMIDT ASSUME TOP-LEVEL POSITIONS

. T. Lafrank, T. L. Wood Appointed Managers

Charles B. Raybuck has been named Vice President for Engineering, and Dr. Leo A. Schmidt has been appointed Director of Administration, by Vice President and General Manager William C. Purple, Jr.



Charles B. Raybuck

Dr. Leo A. Schmidt

In shifting from Vice President for Contract Management to Vice President or Engineering, Mr. Raybuck takes on responsibility for three Melpar divisions —Engineering, Aerospace, and Special Products—and for a number of engineering support and staff functions.

Before he was elected Vice President in 1954, Mr. Raybuck was Chief Engineer of Melpar. He came to the Company as Assistant Chief Engineer in 1951, leaving a position as Vice President and Chief Engineer of Memco. Mr. Raybuck studied at Armour Institute and at the University of Maryland.

Leo A. Schmidt served Melpar as a part-time management consultant for several years before joining the Company on a full-time basis in 1953 as consultant to the President. More recently he has been Director of Management Controls, with cognizance over Company procedures; internal audits; data-processing, cost-reduction and other managerial systems; the planning and review of organizational structure; and forms control. As Director of Administration, Dr. Schmidt adds personnel, plant engineering, and office management to the functions for which he already had responsibility.

Dr. Schmidt has taught courses in, and has lectured extensively on, the development of executives, organizing for defense procurement, and other topics of interest to managerial personnel.

To meet its expanded responsibility, the Administration Directorate has made two managerial appointments. Joan T. Lafrank has been named to the newly created position of Manager of Management Analysis and Thomas L. Wood has been appointed Manager of the Personnel Department.

In her new position, to which she brings exceptional knowledge of Company operations and policies, Mrs. Lafrank is responsible for internal management audits and for the Value Improvement Program. She joined the Company in 1947 as Administrative Assistant to the General Manager. In this capacity she was responsible for personnel functions, office management, and security. In 1950 she left Melpar to work for a West Coast aircraft firm as a systems and procedures analyst. She returned in 1951 as Personnel Director, a position she held until her recent appointment.

Joan T. Lafrank

Since her graduation from the University of Pittsburgh, from which she received the B.A. degree, Mrs. Lafrank has completed courses in management development and industrial relations sponsored by the American Management Association; the Advanced Management Course of the Society for the Advancement of Management; and time and motion study courses at the University of Maryland. A member of the Society for the Advancement of Management, she was recently elected secretary of its Washington Chapter. She also holds memberships in the Society for Personnel Administration, the American Society for Personnel Administration, and the American Compensation Association.

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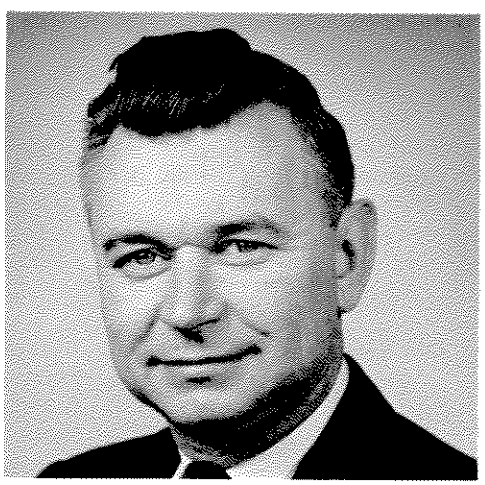

Dr. Thomas L. Wood

GOING UP!

In May the following Melpar employees stepped up to new positions:

T. R. Bailey to Quality Control Engineer, B. J. Barber to Shipping and Packing Foreman, and G. N. Beck to Applications Engineer.

J. E. Bledsoe to Assembly Supervisor, J. C. Brown to Junior Chemical Engineer, and C. W. Ennis to Shop Foreman.

D. N. Gershberg to Senior Electrical Engineer, J. F. Heflin to Senior Planner, and F. J. Hemmer to Branch Supervisor.

W. T. Layton to Branch Supervisor, M. E. Moore to Design Engineer, and L. Moschetto to Progress Coordinator.

C. W. Norris to Quality Control Supervisor, C. N. Price to Electrical Engineer, and J. C. Roberts to Field Service-Engineer A.

L. Smith to Central Files Supervisor, E. W. Spaulding to Secretary, and L. Stowers to Quality Control Engineer.

A. A. Thompson to Test Engineer, F. D. Woodruff to Senior Planner, and D. M. Wright to Progress Coordinator.

RESEARCH DIVISION

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Laboratory, for example. When asked to name her specialty, she said, only half in jest, "Physicists consider me an engineer; engineers consider me a mathematician; and mathematicians consider me a physicist." She draws on experience in all three professions in her work at Melpar.

The following thumbnail sketches reveal the rich and varied experience of Dr. Bramley and other scientists recently attracted to our doors:

Dr. Jenny Bramley, Applied Physics Research Laboratory . . . initiated, now conducts research on optical search radar, light sources of extremely high intensity . . . previously organized, ran Bramley Consultants, concentrating on problems related to display systems, electron trajectories . . . earlier, project engineer and mathematical consultant with A. B. DuMont Labs, in charge of Navy project on dynamic range of persistent screens . . . Ph.D., physics, New York U. . . . National Research Fellow, Johns Hopkins U. . . . over 40 publications on mathematics, molecular physics, engineering topics . . . seven patents.

Dr. Frank M. Hardy, Virology and Tissue Culture Branch . . . supervises Company-sponsored and contractual programs in BW defense, tissue culture . . . with Walter Reed Medical Unit, planned, executed, evaluated research on kinetics of virus-host interactions . . . earlier, devised macroscopic test for virus detection, may have opened way to new viral diagnostic methods, use of viral chemotherapeutic agents . . . Ph.D., virology, George Washington U.

Robert S. Powell, Technical Staff of the Research Division . . . now setting up programs in astrophysics . . . principally interested in growth of matter in space . . . at NASA, studied scattering phenomenon as it applies to comets, solar corona, interstellar matter, planetary atmospheres . . . also in background: studies of acoustic transmission in nonhomogeneous media, development of high-sensitivity, low-noise acoustic antennas, design of information-coding devices . . . in final stages of writing dissertation for Ph.D., physics, Catholic U.

Dr. Vera Usdin, Biosciences Branch . . . biochemist specializing in enzymological studies . . . previously Associate Research Professor, New Mexico Highlands U. . . . taught graduate courses in biochemistry, investigated enzymatic effects of psychotropic compounds, supervised research projects of graduate students . . . Ph.D., biochemistry, Ohio State U. . . . postdoctoral fellow, Graduate School of Medicine, U. of Pennsylvania, and Biochemistry Department of Karolinska Nobelinstitute, Stockholm, Sweden . . . author of numerous professional papers.

Dr. Alvin D. Schnitzler, Quantum Electronics Research Group, Electronics Research Laboratory . . . now investigating phonon-spin wave interaction and ferromagnetic phenomena . . . with Goddard Space Flight Center, studied thermionic energy conversion, emission processes . . . earlier, as Naval Research Laboratories physicist, investigated magnetic properties of solids, feedback in magnetic amplifiers . . . author of number of papers on magnetic devices, ferromagnetic resonance . . . Ph.D., physics, U. of Maryland.

Dr. Robert A. Resnik, Biosciences Branch . . . now elaborating role of proteins in membrane phenomena . . . interest in surface chemistry stems from different sources: investigations at Northwestern U. of physical chemistry of macromolecules; success at National Institutes of Health in isolating and characterizing lens proteins; studies, also at NIH, of hydro-dynamic behavior of glycolipids . . . Ph.D., physiology, biochemistry, biophysics, Purdue U. . . . postdoctoral research fellow, physical chemistry, biochemistry, Northwestern U.

Dr. Earl Usdin, Head, Biochemistry Branch . . . supervises Company-sponsored and contractual enzymological studies . . . previously, Research Professor of Chemistry, New Mexico Highlands U., and Director of New Mexico State Hospital—New Mexico Highlands U. Joint Mental Health Research Project . . . as Research Associate, Institute for Cancer Research (1951-59), worked on folic acid active compounds in human blood . . . American Cancer Society Fellow (1955-56) at Royal Institute of Technology, Stockholm, Sweden and at Institute of Biochemistry, U. of Uppsala . . . Ph.D., organic chemistry, Ohio State U. . . . author or co-author of 22 publications.

DR. ALLEN

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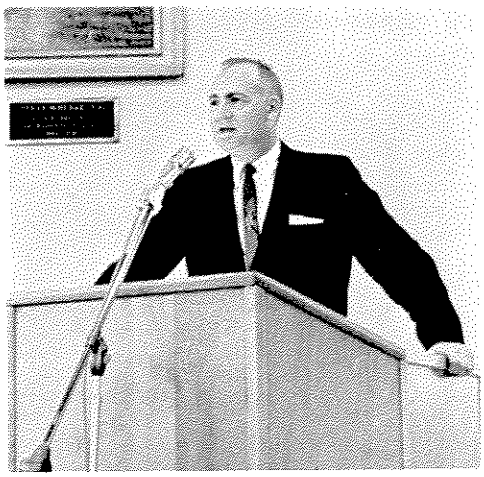
sional papers on pharmacology and on medicinal, organic, physical organic, and electro-organic chemistry, and of a book, "Organic Electrode Processes."



Dr. Milton J. Allen delivering address

Dr. Allen's present research at Melpar is on the electrochemical aspects of biochemical systems. More specifically, he is investigating the electrical-energy-producing steps in the utilization of chemical substances by living systems.

RAYBUCK, SCHMIDT

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Dr. Wood's service with Melpar dates from 1955, when he joined the Company as Assistant to the Personnel Director. In the intervening years he held the positions of Supervisor of Wage and Salary Administration, Compensation and Training Supervisor, and most recently, Personnel Manager for the Minuteman Division.

A fighter pilot during World War II, Dr. Wood returned to the Armed Forces in 1946 and served with them, first as an Army Air Corps officer and then (on reorganization of the defense establishment) as an Air Force officer, until 1955. His postwar military assignments were closely related to personnel administration. As Technical Advisor to the Japanese Air Staff, he gave instruction in the basic concepts, techniques, and procedures necessary to develop and maintain a modern personnel selection and classification system. Other assignments were as Assistant Chief, Evaluation Branch, Career Development Division and as Chief, Personnel Measurement and Analysis Section, Personnel Standards Branch.

Dr. Wood received the Ph.D. in public personnel administration from American University; the M.B.A. in industrial relations from Columbia University, and the B.A. in journalism and advertising from the University of Georgia.

Melpar's payroll for 1962 was almost $21 million. Wages and benefits paid to employees equaled 48 percent of the Company's total sales.