MELPAR-A-GRAPH

Volume 10, Number 5 MELPAR, INC. • A SUBSIDIARY OF WESTINGHOUSE AIRBRAKE CO. June, 1965

McLain Named Director of CA

John D. McLain was appointed Director of Contract Administration in April. In his new capacity, he is responsible for

J. D. McLain

the control and coordination of all activities relating to the negotiation and administration of contracts with the Government and other customers.

Mr. McLain came to Melpar in 1954 as supervisor of the Flight Simulator Planning group. In 1955 he moved to the office of the company consultant, where he advanced to senior procedures analyst. He became a purchasing agent in 1958, with responsibility for all open-market procurement and expediting for the Engineering Division.

In 1959 Mr. McLain was appointed assistant program coordinator for the AN/ALD-4 program. The following year he was named manager of administration for the Production Division, and then, when the Program Management group was formed, became head of its administrative staff.

From late 1961 until his promotion last month, Mr. McLain was a program coordinator. Most recently he was responsible for management of contracts the field of electronic intelligence stems. Earlier he was coordinator of programs relating to communications systems.

A graduate of the University of Notre Dame, with a BSME, Mr. McLain has completed all course work for a Master's in business administration at George Washington University. He is a member of the American Institute of Industrial Engineers.

Contract for Anthracite Research Signed

Secretary of the Interior Stewart L. Udall announced on June 1 the award of a $234,000 anthracite research and development contract to Melpar.

"This work is the first Office of Coal Research contract projected directly toward improved utilization of the nation's supply of anthracite," Secretary Udall said. "We hope that this project, along with others that the Office of Coal Research plans to undertake, will, if carried to a successful end, offer a substantial social benefit to the depressed anthracite industry of Pennsylvania."

The process that Melpar will investigate is a potentially improved method for manufacturing acetylene by converting the carbon in coal to a vapor-phase carbide. The carbide, when reacted with water, produces the acetylene. The advantage of the process is the use of anthracite as a relatively low-cost carbon source, coupled with the ability to handle the carbide in the gas phase, with a potential reduction in capital and operating costs. The target of the work is to produce acetylene at a cost of three to four cents per pound.

"If the promise of this process is borne out," Secretary Udall said, "we hope to carry it into a larger phase of effort in about two years."

Availability of low-cost acetylene in the highly industrialized eastern portion of the nation could lead to development of satellite industries, such as the manufacture of plastics and plastic items, which can have an overall salutary effect on the economy of Eastern Pennsylvania, the Office of Coal Research said. The growth potential for acetylene holds substantial promise for creating a firm market for anthracite in the years to come if the research and development work is successful.

Rooney Appointed Manager of Purchasing

The appointment of John J. Rooney as Manager of Purchasing was announced in April by Lincoln Brown, Vice President for Contract Management. Mr. Rooney was previously a purchasing agent for the Company. In his new capacity, he is responsible for all activities of the Purchasing Department.

Mr. Rooney joined Melpar in 1949 as a buyer. In 1951 he was promoted to assistant purchasing agent, and in 1954 to purchasing agent. As a purchasing agent, he reviewed for approval all subcontract terms and conditions used by buyers; advised on the types of contracts to be employed; entered into subcontract negotiations; and advised buyers as to Armed Services Procurement Regulations, as well as fulfilling other administrative functions.

J. J. Rooney

A native of Washington, D. C., Mr. Rooney attended St. John's College High School and studied engineering and administration at the University of Maryland and American University. He was president of the Purchasing Agents Association of Washington in 1959-60 and is currently a director of the association. He is also a member and Past National Director of the National Association of Purchasing Agents.

It's *Dr.* Campanella Now!

S. Joseph Campanella, Manager of the Electronics Research Laboratory, was awarded the Doctor of Engineering degree at commencement exercises at Catholic University on June 6.

Dr. Campanella

He leaped the last hurdle between him and the coveted D. Engr. on May 17, when he sat for his final examination and oral defense of his dissertation. The dissertation is entitled "An Investigation of the Time Autocorrelation of the Sonic Pulses Propagated in a Medium of Random Temperature Microstructure."

Dr. Campanella, who has been with Melpar since 1953, got the MSEE from the University of Maryland in the spring of 1956. The next fall he started on his doctorate at Catholic University, where he had done his undergraduate work.

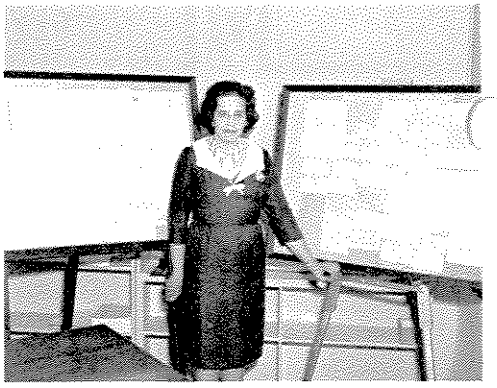
Earning a doctorate while holding a responsible full-time job is a noteworthy attainment. Dr. Campanella is quick to acknowledge the important part Melpar's support played in this achievement. The research for his dissertation was done under Melpar sponsorship, and the Educational Reimbursement Plan paid a major portion of his tuition and fees over the last nine years - 50 percent before September 1963, when the plan was liberalized, and 100 percent since then.

Walker Sees Engineer In Role of Interpreter

"No one is better qualified than the engineer to act as interpreter between today's scientists and the men who must make practical decisions of business and state." So says Eric A. Walker, President of Pennsylvania State University and member of Melpar's Board of Directors.

According to Dr. Walker, the engineer's training in science enables him to understand the language and the potential contributions of the scientist, while his appreciation of the limitations of the applications of science qualifies him to understand the nature of the problems facing the decision makers.

Dr. Walker's views were reported in the Spring 1965 issue of *Engineer*, published by the Engineers Joint Council. To mark the first annual meeting of the National Academy of Engineering, the quarterly carried a feature on Dr. Walker, who is Vice President of the academy.



FAN MAIL. Independent research work done at Melpar stirs interest in all corners of the world. Here Dr. Jenny Bramley, Research Associate of the Opto-electronics Laboratory, poses with correspondence on two of the laboratory's projects that were the subjects of papers published during the past year. One paper, by Dr. Bramley and Charles Eyer, dealt with a microwave-pumped high-intensity light source. The other by Dr. Bramley and her husband, Dr. Arthur Bramley, a Melpar consultant, concerned the interaction of light with transparent dielectric materials. Requests for reprints have come from countries throughout the world. *Photo by Sakamoto*

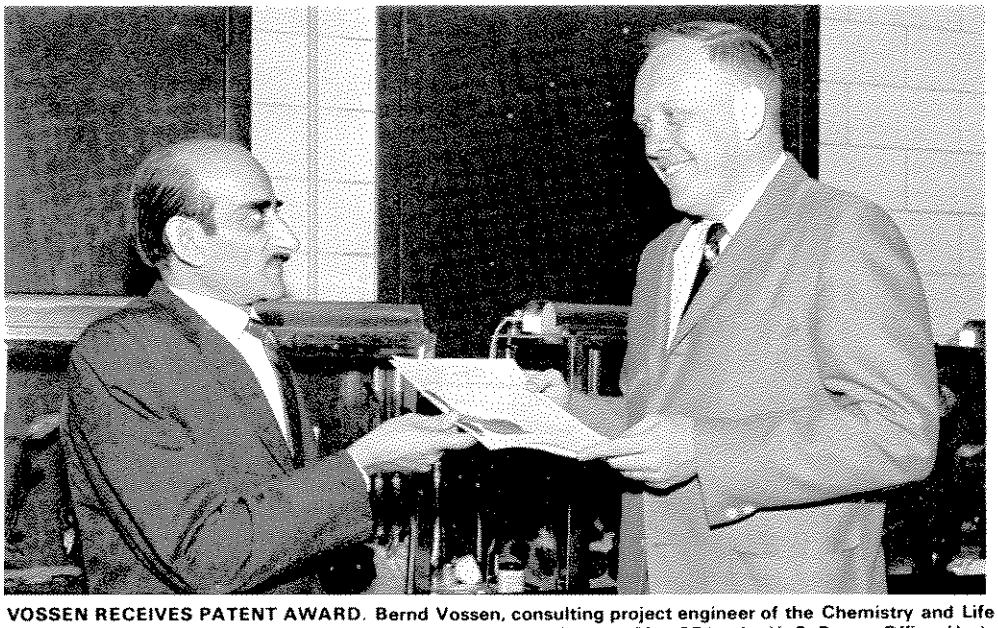
Government Products Committee Welcomes Employees' Suggestions

Do you see the possibility of developing a marketable product from a new contract item, from special capital equipment, or from an independent research and development program? If so the machinery for exploring and perhaps realizing your idea is set and ready to go.

Melpar recently established a Government Products Committee for the purpose of identifying marketable products from various sources at an early stage of their development. Employees are urged to submit their ideas. Form GA-164, "Employee Product Suggestion," has been prepared for just this purpose. Copies of it can be obtained from M. N. Ingrisano, chairman of the committee.

The Government Products Committee is responsible for making recommendations regarding the development, production, and sale of products. Its recommendations are submitted to the Bid Committee for approval and subsequent assignment to the Special Products Department. The items turned over to Special Products will become catalog items for sale in the Government market.

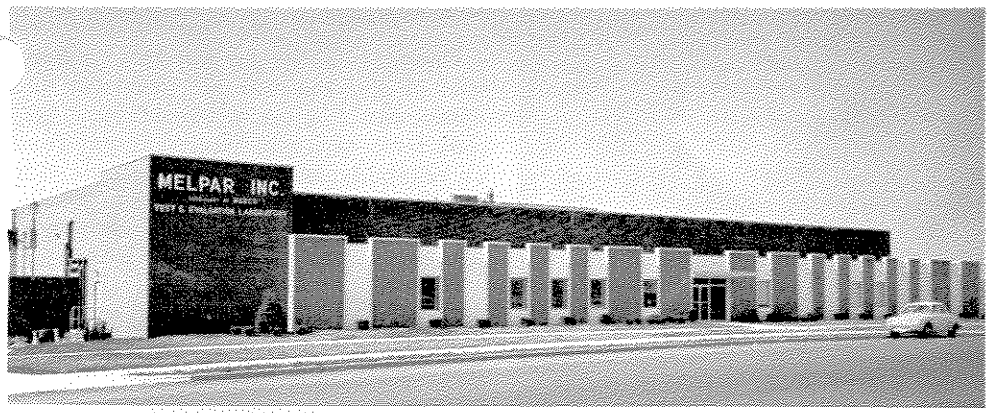
The Government Products Committee includes representatives of Contract Management, Engineering Services, Administration, Research and Engineering, and Manufacturing.



VOSSEN RECEIVES PATENT AWARD. Bernd Vossen, consulting project engineer of the Chemistry and Life Sciences Research Center, was issued a patent for a coaxial filter on May 25 by the U. S. Patent Office. He is shown (left) receiving the certificate of patent award from Dr. Paul E. Ritt, Vice President for Research and Engineering.

Mr. Vossen's patent relates to a low-pass microwave filter having great mechanical strength and the ability to withstand a great deal of shock and vibration with no deleterious results. Co-inventor with Mr. Vossen was H. C. Turnage, formerly in Melpar's employ.

Local Industry, Employees View New TEL



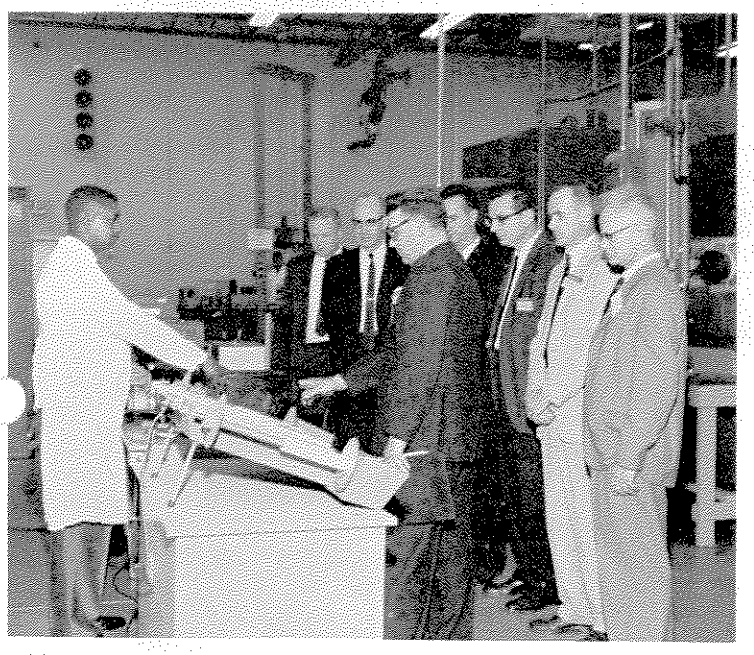
TEL FACILITY. The Test and Evaluation Laboratory is housed in Melpar's newest Northern Virginia plant.

Melpar's Test and Evaluation Laboratory proudly showed off its new facility in Ravensworth Industrial Park, Springfield, Va., at open houses on April 29 and May 2.

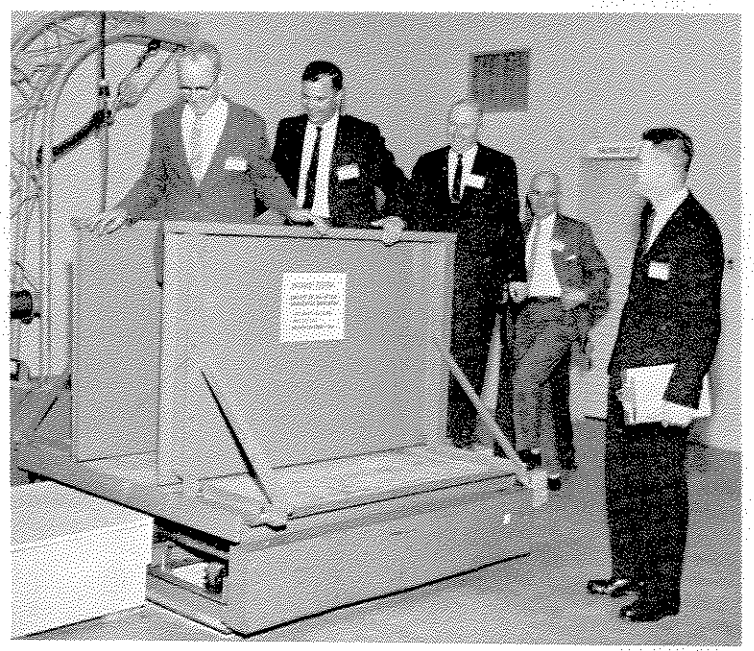
Representatives of industries in the Washington-Baltimore area were guests on April 29. The May 2 date was reserved for Melpar employees and their families.

The new laboratory houses equipment for simulating the extremes of temperature, vibration, shock, and other environmental conditions that Space Age electronic and electromechanical systems must withstand.

Besides supporting Melpar contract work, the TEL offers industrial environmental test services to other firms.



A MATTER OF METERS. Junior Engineer John B. Perkins, a member of the Metrology Laboratory who is assigned to TEL, explains the use of meters and other test equipment that the TEL employs for Melpar contract work and for its industrial test service. Photos By Salmon



ALL SHOOK UP. Guest at the TEL open house on April 29 were visibly shaken by their trip across the laboratory's package tester. The tester simulates the motion of a railway car or a truck. At right is Neil Walter, senior environmental engineer of the TEL.

GOING UP!

William T. Meyer of the Chemistry and Life Sciences Research Center advanced to senior chemist last month.

James H. Worthen recently rose to senior electrical engineer. He is on the staff of the Computer Laboratory.

MELPAR-A-GRAPH

Published by
MELPAR, Inc
A Subsidiary of
Westinghouse Air Brake Co.
7700 Arlington Blvd. Falls Church, Va.
Editor . . . . . M. R. Kiley, Ext. 2350

Board of Directors Re-elected At May 7 Stockholders' Meeting

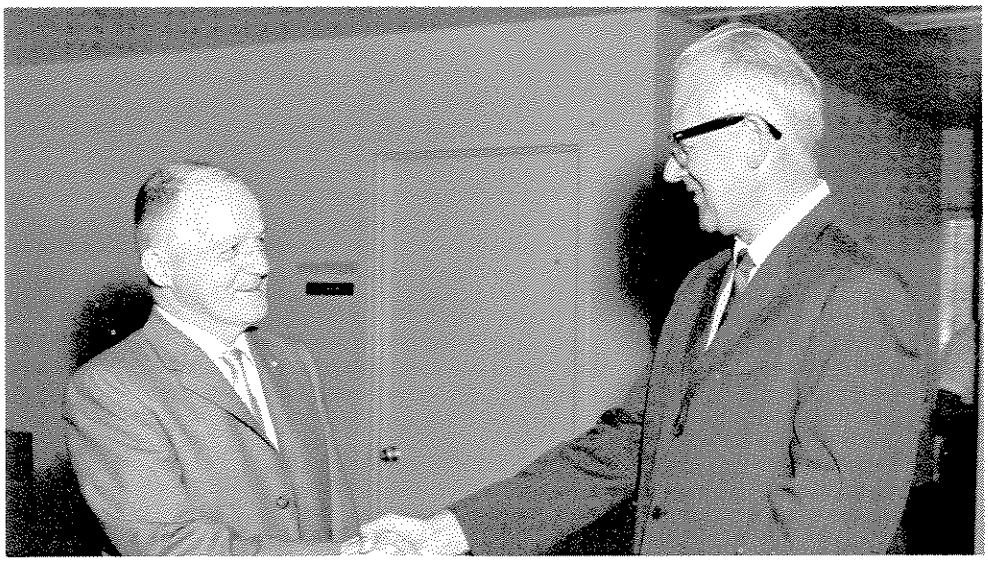
At the annual stockholders' meeting held May 7 at the Falls Church plant, the following incumbent members were elected to the Board of Directors for the coming year: Thomas Meloy, Chairman; Edward M. Bostick, President and Chief Executive Officer of Melpar; Edwin Hodge, Jr., Chairman and President of Pittsburgh Forgings Co.; A. King McCord, President of Westinghouse Air Brake Co.; Eric A. Walker, President of Pennsylvania State University; Lyle S. Garlock, Executive of Eastern Air Lines; and Richard H. Wood, Vice President and General Counsel of Westinghouse Air Brake Co.

Calls for Papers

The following calls for papers have recently been received. For addresses and other information, call M. N. Ingrisano.

The 1965 Fall Meeting of the International Scientific Radio Union will be held at Hanover, New Hampshire, October 4-6. The topics to be discussed are radio measurement methods and standards, radio propagation in non-ionized media, ionospheric radio, magnetospheric radio, radio and radar astronomy, and radio waves and transmission of information. Deadline for submission of abstracts is July 9.

Papers have been invited for the 35th Shock and Vibration Symposium to be held at New Orleans, La., October 26-28, 1965. The host will be NASA.



LEE DENSON RETIRES. Lee A. Denson (left) retired June 1 after 11 years service. Wishing him the best is old friend Warner Peterson, with whom he has worked side by side in the office of the Chief of Publications for the past five years.

A graduate of the U. S. Military Academy, Mr. Denson retired from the Army in 1954 as a colonel. During his military career he held a number of major command positions and served as Army member of the National Defense Research Council and of the Joint Chiefs of Staff Logistic Plans Committee.

He began his civilian career as an operations analyst with Corvey Engineering Company, a WABCO subsidiary that merged with Melpar in 1957. He joined the staff of the Chief of Publications in 1959. During the past few years he developed new techniques that significantly increased the speed and accuracy of publications bidding and of forecasting publications manpower requirements.

Melpar Host To IEE Group

On April 21, Melpar was host to members of the Institute of Electrical and Electronics Engineers, Washington Section, for a series of paper presentations on reliability and microelectronics. The meeting was sponsored jointly by the IEEE's Reliability and Component Parts groups.

The papers presented were "Circuit Reliability Analysis Techniques" by Alan O. Plait and Roger E. Mulford; "Reliability Assessment by Analysis and Test" by Marvin Feinstein; "Reliability Considerations for Low Volume Integrated Circuit Production" by Turner E. Pardue; and "Optimizing Reliability and Costs for Users of Integrated Circuits" by Robert A. Bernay. The speakers were all from Melpar. Mr. Feinstein's paper concerned the reliability analysis of the carbon dioxide detector badges used on the Gemini flight of astronauts Young and Grissom.

Melpar, Wilcox Negotiate

Wilcox Electric Company, Inc. of Kansas City, Missouri, and Melpar, Inc., of Falls Church, Virginia, a subsidiary of Westinghouse Air Brake Company, recently announced that, with the approval of their Boards of Directors, an Agreement and Plan of Reorganization has been executed pursuant to which Wilcox common stockholders will be offered one share of Westinghouse Air Brake Company common stock for every three shares of Wilcox common stock. The required Westinghouse Air Brake Company stock will be newly issued and sold by Westinghouse Air Brake Company to Melpar for purposes of the transaction and will be offered only by means of a Prospectus which will be furnished to the Wilcox stockholders. All of the Directors of Wilcox, including Jay V. Wilcox, President, as parties to the Agreement, are committed to exchange their personal stockholdings.

Consummation of the Plan is subject to a number of contingencies including satisfactory completion by Melpar representatives of an examination of the properties and records of Wilcox, opinions of counsel, actions of governmental authorities and acceptance of the exchange by not less than 90% of the outstanding Wilcox common stock or an election on Melpar's part to proceed if 80% accept.

No changes in personnel or business operations of Wilcox are contemplated.

TEN COMPLETE COURSE IN SUPERVISORY PRACTICE. A group of Melpar management employees completed a 10-week course in modern supervisory practice on May 26. They were presented with certificates of completion by Vice President Charles B Raybuck (standing, left). Shown receiving his certificate is Leonard Blumenthal. Others in the photo are (clockwise from left) George Klop, John Rooney, Norman Langford, Donald Lewis, Dr. Thomas Wood, James Hilfiker, and Lawrence Shaw. Donald Sawtelle and Kenneth Eggleston also completed the course but were absent when the photo was taken.

The course, sponsored by the Virginia State Chamber of Commerce, consisted of 10 televised presentations. Four UHF stations in Virginia and the District of Columbia carried the programs. The Melpar group watched the TV portion of the course each Tuesday afternoon over WETA channel 26, Washington's educational channel, followed by discussion seminars the following morning for 10 weeks.

The Virginia Chamber of Commerce reports that over 3500 management personnel throughout the state completed the program. Plans are now being made to continue this type of program in the fall of this year.