

MELPAR-A-GRAPH

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

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FLIGHT TESTS DUE ON B-58 EQUIPMENT

Flight testing of a substantial part of the airborne equipment being designed and developed by Melpar for the B-58 Hustler is scheduled to begin in late April. A group of eight men have arrived at Falls Church from the Fort Worth, Texas, plant of Convair, designers and builders of the supersonic bomber, to participate in the tests.

A C-131B aircraft has been assigned to the program to serve as the electronic test bed. It will be flown by Convair test pilots out of Friendship International Airport in Baltimore. Melpar engineers also will fly with the aircraft to carry out the required air to ground tests.

Indicative of the enormous bulk and complexity of electronic gear involved in operation of modern aircraft is the fact that Melpar's equipment must be installed in a special pod to be slung beneath the test plane.

In company with the Convair and Melpar men engaged in the project, personnel representing the Air Force, the Army, and the Navy will cooperate in various phases of the work; they will handle the ground equipment involved.

As presently scheduled, the flight test program is expected to be under way for approximately six months. One of the largest research and development projects ever undertaken by Melpar, the B-58 electronics system now engages the efforts of 340 people under the direction of Project Manager R. E. Miller. The flight test portion of the task is under the supervision of Section Head E. H. Bradley.

COLE ELECTED TO IRE COMMITTEE

Ralph I. Cole, Assistant to the Director Of Engineering Services, has been elected a member of the Administrative Committee of the Professional Group On Engineering Management of the IRE.

Cole also served as a member of the Institute Activities Committee responsible for many of the operating details of the Institute's recent national convention.

VACATION ANNOUNCEMENT FIXES JULY 30 AS START

The Company will schedule its standard vacation period during the weeks beginning July 30 and August 6, 1956, according to a recent announcement by Vice President A. C. Weid.

Since various service and productive activities must be maintained without interruption, a skeleton force will be assigned for the vacation period by the affected supervisors. Vacations for persons thus engaged will be scheduled at an earlier or later date, as workloads permit.

The Company's stated policy grants a paid vacation of five working days to all those employed at least six months on July 15 of the given year. In addition, one further vacation day is granted for each additional month's service as of that date—up to a maximum of ten days paid vacation.

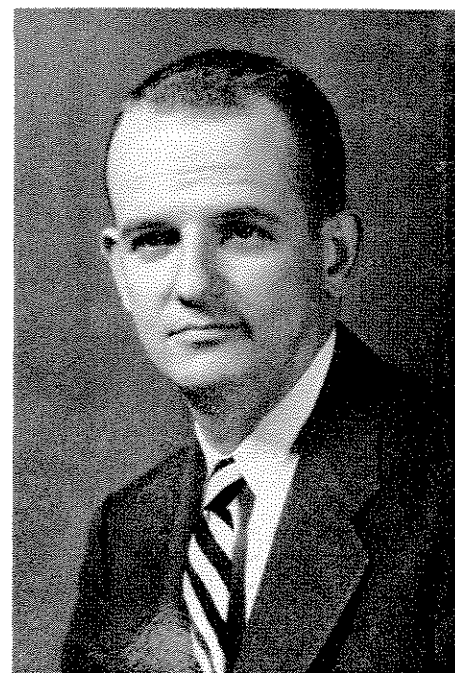
Should a Company-observed holiday fall within an individual's scheduled vacation period, his allowed time is extended to compensate for that day.

R. H. COURTNEY TO JOIN PANEL DISCUSSION AT VPI MEETING

Project Engineer R. H. Courtney, Jr. will participate in a panel discussion with representatives of some of the country's major industries on the topic, "College—Only The Beginning" during the 7th Annual Engineering Conference to be held at Virginia Polytechnic Institute in late April.

Sponsored by the Institute's Joint Chapter AIEE-IRE, the panel discussion is aimed at demonstrating the role of science in modern industry and outlining its demands for an ever-advancing technology.

Mr. Courtney will be joined by J. H. Chiles, Westinghouse Electric Corp.; F. W. McCulloch, Radio Corporation of America; J. A. Darden, Esso Standard Oil Company; and W. E. Vellines, Jr., Chesapeake and Potomac Telephone Company.



Dr. T. P. Cheatham

CAMBRIDGE DIRECTOR ELECTED TO HIGH IRE REGIONAL POST

Dr. T. P. Cheatham, Director of Research and head of Melpar-Cambridge, was elected Vice-Chairman of the Institute of Radio Engineers' Region 1—encompassing all the New England states and upper New York state—during the national convention of the IRE held during March in New York City. Dr. Cheatham retains his post as chairman of the Boston section of the Institute.

In other actions at the convention, he was elected to the Administrative Committee of the Professional Group On Information Theory, and appointed to a special committee formed to survey the Institute's financial and operating procedures at the national level.

The special committee is expected to study operating practice among sectional, regional, and professional groups with the aim of developing uniform policies for the entire organization. Much of the work will be done by an IRE headquarters task force under Dr. Cheatham's direction.

OPINION

The months' long Westinghouse Electric strike cost the country many millions of dollars in wages and goods — which never will be recovered. And at the end of it, no one "won" anything.

Of all the emotional appeals used to bring about such unhappy episodes, that which conjures up images of a strike as a sort of athletic contest between 'owner' and 'worker' is the most unrealistic.

The picture of the fabled 'owner' in plug hat and spats, hoarding his bags of gold, is as dead as high button shoes. Businesses in this day and age are 'owned' by millions of people; they are operated by professional managers, hired for the job.

The job of today's business manager is well-defined: he must bring together a combination of physical properties and people, arrange them in an orderly pattern, and keep them so. The physical properties must be kept in efficient work-

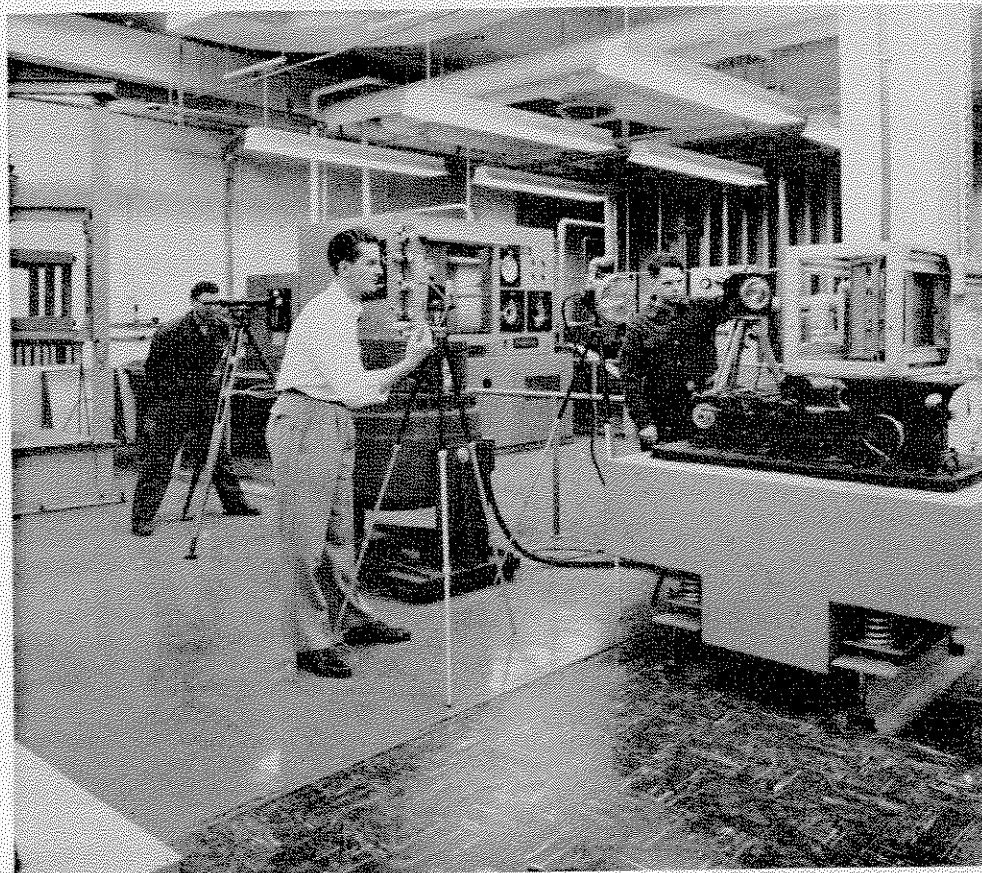
ing order, and the people must be willing to be and remain a part of the enterprise.

The modern business manager must maintain a competitive position in all respects. Let the pay scale of his operation fall out of line; let its personnel policies and practices lose touch with the times — and the day comes when all the manager can say is, "where is everybody?" It doesn't take strife, contention, and soap-box oratory to prove that.

The simple facts of Melpar's growth are proof positive that we have maintained that essential competitive position. The managers of Melpar will strive to the utmost to hold that position, and improve it. They will keep its physical plant at a high level of efficiency. They will keep its wage structure and its personnel practice as modern as its test equipment.

They will do this because they must; it's their job assignment. And Melpar's managers like to work here, too.

FROM TROPIC HEAT TO OUTER SPACE IS ROUTINE JOURNEY IN TEST LAB



IT CAN HAPPEN HERE . . . in the Environmental Test Laboratory at Falls Church, where conditions of maximum severity are created to prove the quality of Melpar-built equipment. Seen conducting a vibration test, from left to right, are Richard Baker, William Brady, and Lloyd Bartlett.

IF IT PASSES HERE IT MUST BE GOOD

The massive forces of nature are duplicated in Melpar's Environmental Test Laboratory at the Falls Church plant. Conditions of heat or cold in which nothing living can survive are generated there on demand. Blows to shatter the walls of Jericho are dealt out with the flick of a switch; and tearing vibrations which make a dentist's drill seem like a caress flow from some of its infernal machines.

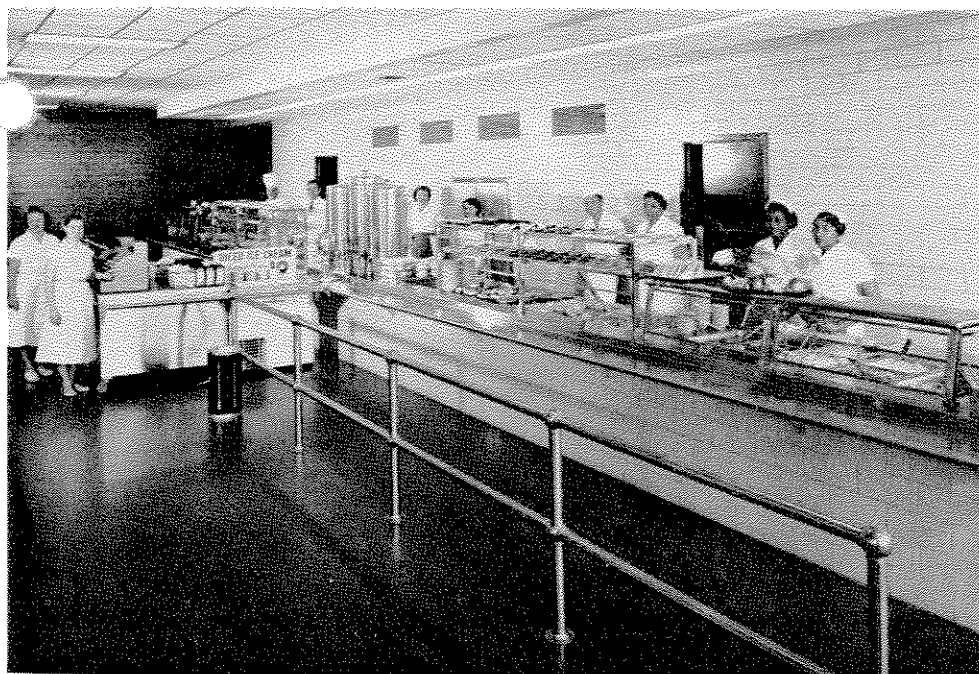
All these abuses and more are daily inflicted upon black boxes born of the minds and hands of men who, because of poor design and fragile materials, are limited in body to a narrow physical world and yet insist upon knowing what goes on beyond their sphere.

Perhaps Melpar made equipment will be called upon to ride through time in a space station. The men who work in the Environmental Lab will seize it first and, matching the circumstances it must surely meet, will simulate its venture.

Again, a Melpar design may be destined for a place in the remote innards of an inter-continental bomber. It must work. The lives of more than a billion crew may depend upon it. In one of the Environmental Lab's stratosphere chambers, which are equipped with automatic program controllers, the gear will be subjected to the stresses of a trans-polar 'round-the-world flight.

Melpar engineers frequently find in their work an environmental problem that can be solved best by a planned experiment conducted under the controlled conditions of the laboratory. Working with Lab Supervisor Lloyd Bartlett and his staff, the design engineer can devise an array of tests combining the effects of temperature, humidity, and altitude; he can introduce the consequences of explosion or thermal shock, and many more. When the experiment ends, he knows with certainty the good and the bad features of his equipment.

Melpar's Environmental Test Laboratory is possibly unique in that all of its equipment—some \$200,000 worth—is owned by the Company. Most similar laboratories in the electronics industry are at least partly equipped with government furnished items. Private ownership enables Melpar to utilize fully its equipment not only on government work but also in the sort of long-range research and development activity essential to its leadership in electronics.



SOUP'S ON . . . 4,000 gallons of it, to be served this year in the cafeteria at Falls Church. This view of the business end of the enterprise shows its staff poised for a noon-time invasion. Amazingly, the smiles are still there when the crisis has ebbed.

ARMY LOGISTICS SURVEY BY MELPAR TO CONTINUE

An extensive survey of the U. S. Army's logistics system, upon which Melpar has been engaged since January, 1955, will be extended into mid-1956 under the terms of an amendment to the contract recently received.

A group of Melpar engineers under the direction of Dr. R. A. Schmidtke, of H. M. Williams' section at Falls Church, are based at the Pentagon for the duration of the task.

Given the mission of recommending an improved logistical approach to the Army's materiel requirements, the engineering group is engaged in analyzing the supply directives, the mechanics of computing needs at all levels of command, and the reports and records which result.

A feature of the extended effort now authorized will be a study of the possible role to be played by electronic data processing equipment in the logistics field. It is believed that techniques of determining inventory levels, requisitioning and ordering, and other material control routines can be revised so as to permit programming the information into computers.

Assigned to Dr. Schmidtke for the project are Senior Engineers S. A. Beckley, G. A. Rehm, and P. M. Thrasher, along with Mrs. E. E. Trumbower, Engineering Aid.

INTREPID MELPAR MEN BATTLE WEATHER TO ATTEND IRE SHOW

Against rather severe odds generated by a spell of wild northern weather, a group of Melpar men trekked into New York City during the recent three-day national convention of the IRE. Drawn from all sections of the Falls Church Engineering Department, from Arlington Division, and from the Watertown and Cambridge plants, they fought their way through snowy wastes to various technical sessions at the Kingsbridge Armory and the Waldorf-Astoria hotel.

Actively participating at the convention were W. G. Scott and A. A. Lawson of Falls Church. Mr. Scott, co-author with Nathan Marchand of Marchand Electronic Laboratory of a study on "Cross-Polarization Effects On Antenna Radiation Patterns", delivered the paper during the March 21 session at Kingsbridge Armory.

Mr. Lawson collaborated with P. E. Ritt, Jr., Chemical Dept. Section Head—in presenting the results of their work on "A New Automation Technique For Soldering Components To Foil-Wire Boards" on March 21 at the Waldorf-Astoria.

Mr. Lawson's activities in the field of automation were recognized by his election to the Administrative Committee of the national Professional Group On Production Techniques.

GIRTH EXPANSION IS GOAL OF CAFETERIA

Exactly one trillion calories will be distributed more or less equitably over the frames of the hungry horde expected to invade the Falls Church plant cafeteria this year in order to eat 170,000 meals: either breakfast or lunch.

Confronted with statistics describing the amount of food to be consumed, a renowned home economist declared it was sufficient to feed the average American family of four and three-eighths persons for a perfectly ridiculous length of time; in fact, the economist stated, that three-eighths of a person probably would get to be full grown and play havoc with the government's cost-of-living statistics.

After listening to cafeteria manager Edward Causey reel off anticipated servings of 52,000 pounds of potatoes, 13,000 pounds of beef, 3,000 pounds of turkey, 2,600 pounds of ham, and 5,200 pounds of fresh pork, this reporter embarked on a diet of bread and water. Not even the vision of 1500 cakes and 6,600 pies held any temptation.

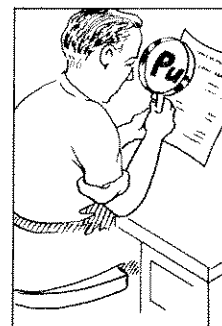
It is no coincidence that the world-famous "Senate bean soup" appears regularly on the Melpar menu. Our cafeteria is operated by Nationwide Food Service, the operator also of the cafeteria and dining rooms of the United States Senate. The General Services Department, represented by F. E. Gadbois, administers the cafeteria on behalf of the Company.

NEW P.O. FORM IS EYE-SAVER

Always someone, somewhere, must get the thirteenth copy of the purchase order form. Invariably that someone requires only the information contained in the fine print.

This low man on the totem pole may now throw away his magnifying glass and need no longer curse his fate. The old carbon copy purchase order has been succeeded by the fresh, new product of a Multilith machine.

Copy number 13 now is as legible as copy number one; even though the delivery date may still be unsatisfactory, at least you can read it and can proceed to belabor Purchasing's expeditors with confidence.



Mr. Murgatroyd Misfit



RUMORS may be fun—but the word is more dependable. Ask your supervisor!

GOING UP!

The advancement of Lincoln Brown from Project Engineer at Falls Church to Section Head at Arlington Division was announced recently.

D. H. Nelson, of the Tucson plant, has been promoted from Senior Technician to Engineer. At Falls Church, R. P. Fetterman has moved from Tool Crib Attendant to Machinist Trainee, while R. Via rose from Maintenance Helper to Carpenter 2nd class.

In the Quality Control Department, J. R. Thompson and R. J. Owens have been advanced from Junior Engineer to Engineer; both are assigned to Arlington Division.

J. G. Bryant moved from Stock Clerk to Terminations Lead Man at Falls Church. Also at Falls Church, four men have been promoted from Junior Engineer to Engineer. They are: B. B. Williams, A. W. Tefend, R. A. Ping, and W. H. Smith.

TWO MELPAR MEN WILL VISIT ENGLAND

Section Head H. M. Williams and Project Engineer Leonard Kings, of Falls Church, are scheduled to depart for England via MATS on April 6. They will participate in a series of technical conferences and field inspections with officials of the British Air Force.

The men will carry out the mission under the auspices of the U. S. Air Force, as a phase of performance within a contract awarded Melpar by that agency. They are scheduled to return to the United States on April 20.

FC MAN AIDS TEACHING PLAN

Influenced by its substitute teacher—Coleman Goatley, of Falls Church Engineering—Falls Church High School's General Science class diverged from its normal curriculum for one day recently. Its students abandoned textbooks and blackboard in favor of a look at modern science as seen through the eyes of a working engineer.

The occasion was the annual National Science Teachers Conference held in Washington, D. C., during which Mr. Goatley, in company with many scientists and engineers of the Washington area, took over high school science classes to enable the regular teaching staff to attend the conference.

With the avowed purpose of "selling" science as a career, the temporary teachers discussed the role of the scientist and engineer now and in the future, and sought to demonstrate the long-term advantages accruing to the high school student who begins now to orient himself toward a scientific education.

MEDICAL TEST NOW HELD AT ARLINGTON

Moving to keep pace with the rate of new hiring in Arlington Division, the Company's Medical Department recently began conducting all its pre-employment physical examinations at that location. Discontinuing its past custom of routing most of the examinations to the main dispensary at Falls Church, the Department has ordered additional equipment for Arlington in order to make the activity self-contained.

'What's Our Policy'

Under this heading, from time to time the **MELPAR-a-graph** will discuss specific phases of the Company's personnel policies and employee benefits structure. In choosing topics, the column will use the questions daily asked of the Personnel Department as its barometer of interest.

"I was home sick last week. Does Group Insurance pay my doctor bill?"

The Hospital Expense and Surgical Benefits portion of our Group Insurance Plan, in common with virtually all such plans, **does not** cover the payment of routine doctor's bills.

Our Plan **does** pay surgical fees in accordance with a "Schedule of Maximum Surgical Fees" published on pages 13 through 18 of the booklet entitled "A Plan of Group Insurance for Employees and Their Dependents".

A surgical fee is the amount charged by a physician or surgeon for the performance of a cutting or manipulating operation, as distinct from his fee for consultation, diagnosis, and prescribing treatment.

Our Plan also, of course, includes Weekly Accident And Sickness Benefits, Hospital Expense Benefits For Employees And Dependents, Maternity Benefits, and the Extension Of Benefits after termination of insurance.

You should have a copy of the Group Insurance Plan booklet. If you have lost the copy originally given you, request another from the Personnel Department.

NEW COMMUNICATIONS DEVICE NOW OPERATING AT MELPAR

Even in these days of television, radio, and touring sound trucks, the bulletin board remains a firm and familiar means of communication—whether it be used to post pictures in the local post office, or to carry announcements in Melpar plants.

Therefore be it known that our bulletin boards will carry appeals for "rides wanted" and "rides offered". Those who wish to get from here to there should signal Mrs. K. J. Gregory at Falls Church or Mrs. K. E. Zeiss at Arlington.

To avoid having our bulletin take on the appearance of a post office board, postings will be removed after two weeks unless a request for renewal is made.