MELPAR-A-GRAPH

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

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AN OLD ACQUAINTANCE now, is the Melpar-designed A4D-1 Operational Flight Trainer to these Navy men who have just completed a factory training course in its maintenance and operation. In the front row are Training Devices Chief E. H. Svoboda, Training Devices 1st Class F. E. Cook, and TDC R. W. Swanagan. In the rear is TD1 R. L. Zea. Photo by Norton

NAVY MEN LEARN HOW TO TEACH NAVY MEN HOW TO USE TRAINER

The first group of Navy men to qualify as instructors in the operation of the A4D-1 Operational Flight Trainer recently completed a six-week course of instruction at the Falls Church laboratory. Returning to their bases at Miramar, California, and Oceania, Virginia, the men now are prepared to play many roles in flight training.

As Instructors, they will put Navy pilots through the rigors of simulated emergencies; as maintenance men they will keep the A4D-1 Trainers "flying"; and as teachers, they will school other men in both these crafts.

To assure that the Navy contingent would be taken through every aspect of the Trainer, a total of 16 Melpar engineers from the Flight Simulator section served as their "faculty."

BXR, ARLINGTON ACTIVITIES GET NEW COLUMBIA PIKE BUILDING

Activities presently housed at Bailey's Cross Roads and at Arlington Division will shift into the first of two 20,000-foot buildings being constructed on Columbia Pike at Bailey's Cross Roads for lease to the Company. The building is expected to be ready for occupancy in late October.

BXR Engineering Department groups will move from the main BXR building into the new area. From Arlington Division will come Termination Stores and most of Bulk Stores.

Release of the space in Arlington Division will set in motion a major move, when the Division's Machine Shop is transferred to Building E. The Sheet Metal Shop and associated activities will then expand into the old shop space.

BXR GROUP MEETS DEMAND DATE FOR VITAL NAVY UNIT

Seven and a half man-years of direct labor, packed into a ten week span, brought to its successful conclusion one of those "possible but not probable" jobs we occasionally receive from a customer with an overwhelming need and an overriding priority.

Under the terms of a contract awarded the Company by the Navy Department, Section Head D. C. Cleckner's group at Bailey's Cross Roads received an order on June 13 to develop and construct a system comprising nine ATR racks, associated test equipment and spare parts—and to do it in time to meet a critical date.

On August 21, the gear was there, ready for acceptance tests. Last week, an installation crew from Bailey's Cross Roads Engineering Department put it in place in a Navy installation. At its peak, the task consumed the energies of 25 people in Mr. Cleckner's section; others, in shops and labs at Falls Church and Arlington, contributed spot tasks in the spirit of the whole assignment.

Instances of outstanding individual performance noted during the effort are literally too numerous to mention. But the pride of accomplishment evident at Bailey's Cross Roads today can justly be shared by every one involved throughout the Company. The Navy's traditional 'Well Done' is no more than fitting.

It applies to all those engineers, technicians, expeditors and others in the task force headed by Project Engineers Bernstein and Glover and Senior Engineer Poulter. These were the people, in the main, who stopped the clocks and paid heed only to the calendar.

And it applies as well to the men in Purchasing who corralled all sorts of likely and unlikely materials and components to meet required delivery dates, and topped it with the feat of bringing in 44 'Mil-Spec' transformers of 11 different types in the elapsed time of two weeks.

OPINION

We view with alarm the ravages of a mysterious virus (it's got to be some sort of virus; everything is, today) which spasmodically invades our various installations.

The virus seems to attack with truly lightning speed. Its typical victim is one who has just attained six months' continuous service with the Company. He or she reaches that milestone in the full bloom of health, youth, accomplishment; the onward road looks bright with promise. It's a great day.

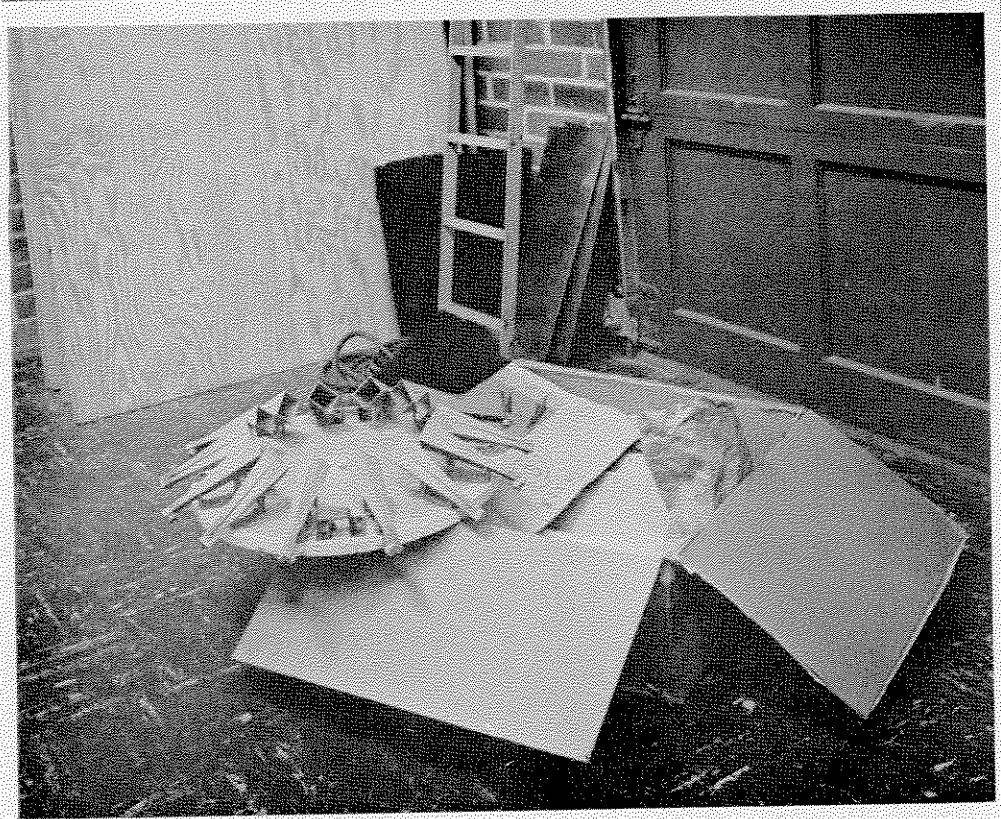
Then, sometime in the dark hours of that day (when one's resistance is at its ebb), the strange bug strikes. Come 8 a.m. the next morning and another case of the whirling fantods is reported.

The Plant Nurse is puzzled. The Medical Consultant is puzzled. The Mayo Clinic is puzzled. Not only is the cause of the disease an enigma; its cure borders on the miraculous . . . The seizure lasts exactly 24 hours and then departs, leaving the patient hale, hearty, and able to work.

There are no visible after-effects of this exotic ailment. Its victims suffer no apparent loss of vim and vigor. But it is wise to be wary. Perhaps that bug, once lodged, proceeds to lie dormant. If so, it can rise and strike again at some unfortunate time—like when a supervisor is around looking to get some work done, a trait to which supervisors are prone. Under those circumstances, any supervisor is apt to grow pettish and go around forming judgments.

There is a preventative for all this. It lies in the cultivation of a courageous attitude. A little before the dread day is upon you, begin exhorting your inner self, saying, "It may have gotten others but it won't get me; I'll beat it if it takes three alarm clocks."

And then, in the moment of decision, be strong. So what if you've been on the job six months? What if you have been exposed to the radiations of sick leave? The majority of Melpar people have had the same experience and emerged unscathed. All they did was continue a reasonable course, working. So be strong, be brave. You can do it, too.



HUMPTY-DUMPTY WAS A MESS when he fell off that wall. Of course he had to be off his rocker, to have been sitting up there in the first place. It's common knowledge that eggs don't bounce. The similarity between H-D's predicament and the uneasy future faced by this antenna horn array is not far-fetched. These things are fragile and that's no fooling. The next time you have occasion to handle material—please, think twice about the merchandise.

Some Handy Definitions

As the science and art of electro grow daily more complex; as the skies more and more cluttered up with oddly named projectiles doing extraordinary things, ordinary people who can't distinguish between a horned owl and a flying saucer must often yearn for information. Such as: what're they talking about?

Our thanks are due to some of our engineering contemporaries at Raytheon Manufacturing Co., who have gone all out to define some of today's new words in scientific language. To wit:

Guided missile: Das skientifiker geschutenwerkes fireenkrakker.

Liquid Rocket: Das skwirtenjucenkind firenschpitter.

Rocket Engine: Firenschpitter mit schmoken unde schnorten.

Solid Rocket: Das schtick kind liken cigareten fireschpitter.

Guidance System: Das schteerenwerke.

Inertial Guidance: Das schteerenwerke mit das wirlengig und black bach sen.

Celestial Guidance: Das schruballische schtargasen peepenglasser mit komputen rat tracen schteerenwerke.

Preset Guidance: Das senden offen ein pattenbacker und finger gekrossen schteerenwerke.

Control System: Das pullen und schoven werke.

Warhead: Das laudenboomer.

Nuclear Warhead: Das eargeschplitten laudenboomer.

Hydrogen Device: Das eargeschplitten laudenboomer mit ein grosse hollengraund und alles kaput.

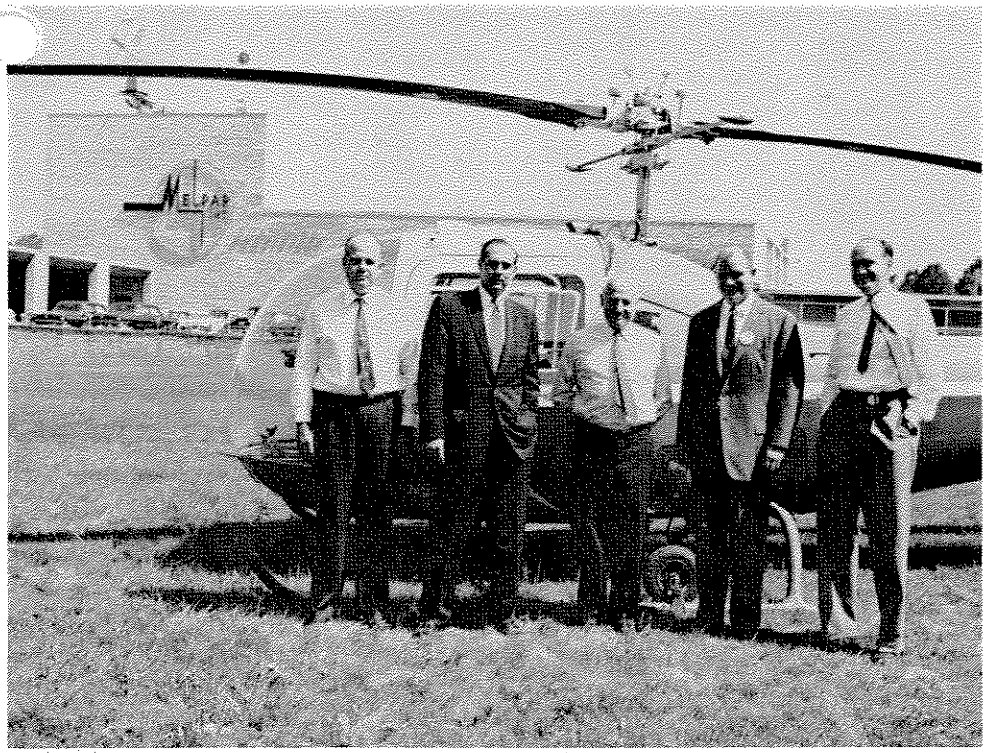
HUMINIK TEXT DISCUSSES METAL WORK

The characteristics of the specialty metal, molybdenum, and the fabricating techniques required by it form the content of an article, "Molybdenum — High-Heat Hope for Electronics", appearing in the current issue of Electronics Equipment magazine. Its author, John Huminik, Jr., is an Engineering Assistant at the Falls Church laboratory.

PROFESSIONAL GROUP NAMES CLECKNER

Section Head D. C. Cleckner, of the Bailey's Cross Roads Engineering partment, recently was elected Secret Treasurer for the 1957-58 term of the Professional Group on Engineering Management, the Washington, D. C. Chapter, IRE.

'Copter Comes A-Calling At Falls Church



JUST DROPPING IN to say hello, J. C. Weadock, Vice President and General Manager of Chesapeake and Potomac Airways, is welcomed by Melpar's Vice President-Treasurer R. T. Cosby, Engineering Services Director J. P. Chambers, President Thomas Meloy, and Vice President A. C. Weid. Photo by Tatroe

SIMULATOR-TAUGHT PILOT COPES WITH DOUBLE FLAME OUT

To a jet pilot, "flame out" spells trouble of a kind which can be no better described than by the well-worn phrase—a matter of life or death. With his power lost, the pilot has but two or three minutes in which to bring his airplane into the proper attitude for a feasible re-start and then to execute the re-start procedure.

Trouble came double to Captain Coleman L. Baker of Bergstrom Air Force Base on his second flight in an F-101A twin-engine jet fighter. When he overcame the problems and came back home, bringing his airplane with him, he willingly shared the credit with Melpar's F-101A Flight Simulator now in service at Bergstrom.

Captain Baker's comments, written into one of Field Engineer R. J. Fairchild's Utilization Reports, fill out the story. "On my second flight in F-101A I experienced a double flame out (my first flame out in 1300 hours of jet flying). I won't say that I handled this emergency coolly, but it was made easier due to experiencing it and other emergencies previously in the Simulator."

68 TONS OF SPARES SHIPPED IN 2 WEEK TIME BY ARLINGTON

Even with handles, 68 tons of assorted hard goods is a lot of stuff to be pushed out anyone's Shipping door in a two-week period. When it involves literally thousands of widely different articles, from condensers to consoles, each having to be packaged, packed, and identified to meet rigid military specifications it takes rank as a real job of work.

Arlington Division's Shipping Department, under the direction of Shipping and Receiving Supervisor W. K. Willmon, disposed of just that bulk of MSQ-1A spare parts of various categories, fanning them out via trucking lines and Railway Express to more than 170 destinations all over the country.

There will be plenty more to come, before the MSQ-1A program is history; Mr. Willmon and his crew of 50 or more packers just hope it doesn't come in 68-ton lots. Shipping the MSQ-1A radar systems themselves, they note, has become a matter of mere routine; in sets of three truck-borne units, the systems keep moving out at their scheduled rate of two per month.

ACCREDITED STUDY PLAN TO CONTINUE IN MELPAR PLANTS

Off-campus instruction at both the undergraduate and graduate levels, in a variety of engineering subjects, again will be conducted at Falls Church and Arlington during the 1957 Fall semester. Continuing a Company-sponsored program which began in 1955, instructors from the University of Virginia and The George Washington University will lead the classes, all but one of which can accrue degree credits to those students having the necessary prerequisites.

Application forms, available in all Personnel sections, must be completed and delivered to R. E. Phipps at Falls Church no later than September 3, 1957. GWU will hold its registration sessions on September 16, 1957, from 9:30 to 12:30 in the Main Conference Room at Falls Church and at the Bldg. 9F conference room in Arlington. Registrations for UVA courses will be taken on September 17, 1957, from 2:00 to 3:00 in the same rooms.

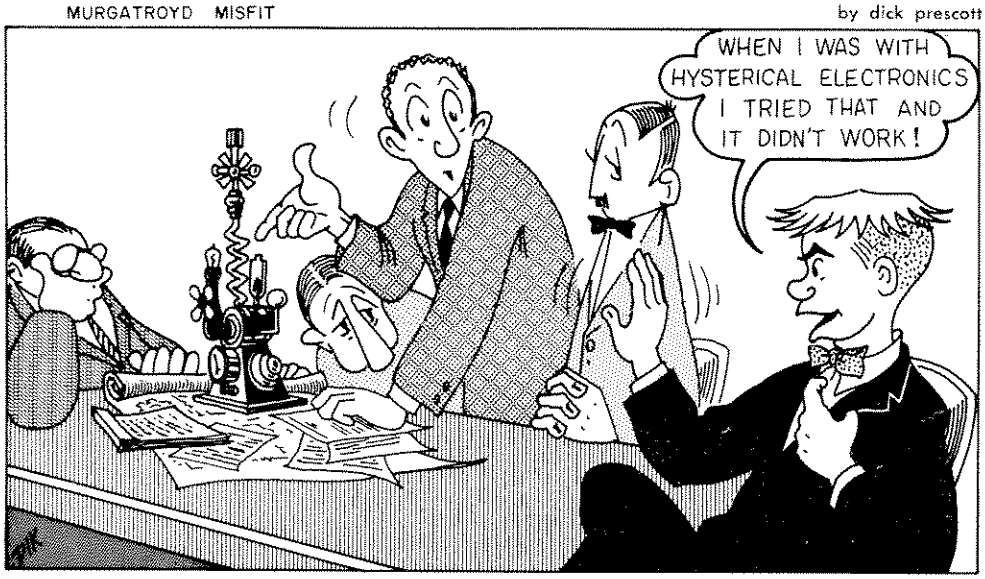
The Company's Tuition Refund Plan, returning 50 per cent of the tuition and laboratory fees to students successfully completing the courses while in the Company's employ, covers the entire in-plant curriculum.

The George Washington University is offering 3 semester-hour courses in College Algebra, Analytical Geometry, and Differential Calculus at the undergraduate level. These classes will be held at Falls Church and Arlington. The cost of each subject is $13 per semester-hour, a reduction in the school's regular rates offered to Melpar employees for off-campus participation.

Undergraduate courses in Trigonometry and Calculus, plus a special course in Shop Mathematics are offered by the University of Virginia at both locations; these courses are priced at $12 per semester-hour. Shop Mathematics carries no degree credit.

Graduate level work, to be conducted only at Falls Church, also is offered by UVA in Advanced Engineering Math, Advanced Microwave Engineering, Radiation Field Theory, Electrical Network Analysis, and Advanced Electronic Circuits. The cost of these subjects is $15 per semester- hour.

MURGATROYD MISFIT by dick prescott



But Murgatroyd! In those days you were a dope.

GOING UP!

J. H. Leatherwood has been promoted to Foreman of the Receiving and Falls Church Shipping activity. In Chemistry Lab, G. C. Weeden and R. G. Black advanced to Senior Chemical Technician while S. A. Newman rose to Junior Engineer.

Promotions occurring in Drafting at Falls Church saw these men advanced to Drafting Supervisor: E. F. Koch, D. H. Reiss, J. C. Heavner, and F. E. Boyko. C. H. Kennedy has become Checking Supervisor. R. K. Elmblad is now a Senior Draftsman. Three who rose to Draftsman are: F. H. Hunsaker, F. L. Shell, and L. A. Whipple.

In Maintenance Department, J. C. Oliver, W. D. Gregory, and J. W. Kimbel have been promoted to Cabinet Maker. G. W. Mooney is now an Electrician 1st Class, and L. E. Dorman has moved up to Electrician 2nd Class.

Quality Control Department has announced the promotion of W. K. Shuster to Mechanical Inspector 1st Class.

At Bailey's Cross Roads Engineering Department, R. C. Stacy rose to Senior Engineer. G. B. Thompson and M. E. Loy advanced to Senior Draftsman-B. W. R. Goode was promoted to Expeditor. C. W. Creasdell is now a Senior Technical Writer. A. G. Moseley stepped up to Junior Engineer.

At Arlington Division, E. G. Olson moved up to Welder 1st Class. A. S. Gaizick and R. B. Daves advanced to Heavy Assembler 1st Class.

S. R. Perrine, of Falls Church, has been promoted to Engineer. A. S. King moved up to Junior Engineer. W. J. Hinshaw rose to Senior Technician. C. E. Wood has been named Machine Shop Storekeeper, while W. R. Haese moved up to Experimental Machinist. A. J. Andrews and J. L. Schwier advanced to Wire Technician 1st Class. H. E. Caron is now a Senior Technician.

Also at Falls Church, E. L. Bowler was promoted to Senior Personnel Clerk. D. E. Wagner advanced to Procurement Planner. Moved up to Expeditor was D. R. Pettit.

SHEET METAL STUDY PLAN BEGINS AT FALLS CHURCH

An intensive training course in sheet metal work, both theory and practice, has been inaugurated at the Falls Church laboratory in the Company's latest move to strengthen its manpower resources and provide greater job potential for qualified employees.

Divided into eight units, the course is being conducted in 28 two-hour sessions held three times weekly. Led by Sheet Metal Man E. L. Culver as Instructor, the training stint involves classroom instruction and on-the-job exercises in progressively more difficult fabricating methods. At planned intervals during the life of the course, 'progress report' examinations will be given the nine students currently enrolled.

Those who successfully complete the course will receive a special merit review which can lead to a 3rd Class Sheet Metal Man rating.

FLU PREVENTATIVE MEASURED OFFERED MELPAR EMPLOYEES

Continuing its policy of past years, the Company will provide immunization shots of influenza vaccine to all employees, without cost and on a voluntary basis. Already ordered, with delivery scheduled for late September, the vaccine to be offered this year is a strain especially formulated to combat the so-called "Asiatic flu."

Despite the sensationalized publicity now being given to this seasonal ailment, competent medical authorities regard the term "Asiatic flu" as no more than a handy headline term. It is still an infectious illness generally called influenza, and is no more severe in its consequences than were its versions of previous years.

In discussing the inoculation program, for which plant and department schedules will be announced later, Medical Consultant J. N. Baum, M.D., stressed that the vaccine treatment can be expected to provide an approximate 70% immunity to the majority of people; while being a medically sound precautionary measure, none should regard it as a medical cure-all.

In addition, Dr. Baum warns that persons with a known allergy to eggs in any form should *not* seek or accept the flu vaccine inoculation, since the side effects, for such people, are more distressing than the illness.

AUTOMATIC MARKING OF TEFLON WIRE CUTS COST AT ARLINGTON

After more than a year of working with Ackerman and Gould Co., New York, manufacturers of wire-marking machinery, Arlington Division now is equipped to mark teflon covered wire for coding purposes, a task hitherto impossible for the industry.

Automatic marking of all other types of wire insulation has been in effect for some years, resulting in significant savings by voiding the need to maintain stocks of innumerable variations of color coding in many wire sizes. The same degree of savings can now be made with extruded teflon insulated wire.

The machine now in use at Arlington is capable of handling wire as small as No. 27, and can space its markings at half-inch intervals. Its metal type is readily changed, so that all manner of markings can be worked into a given spool.