

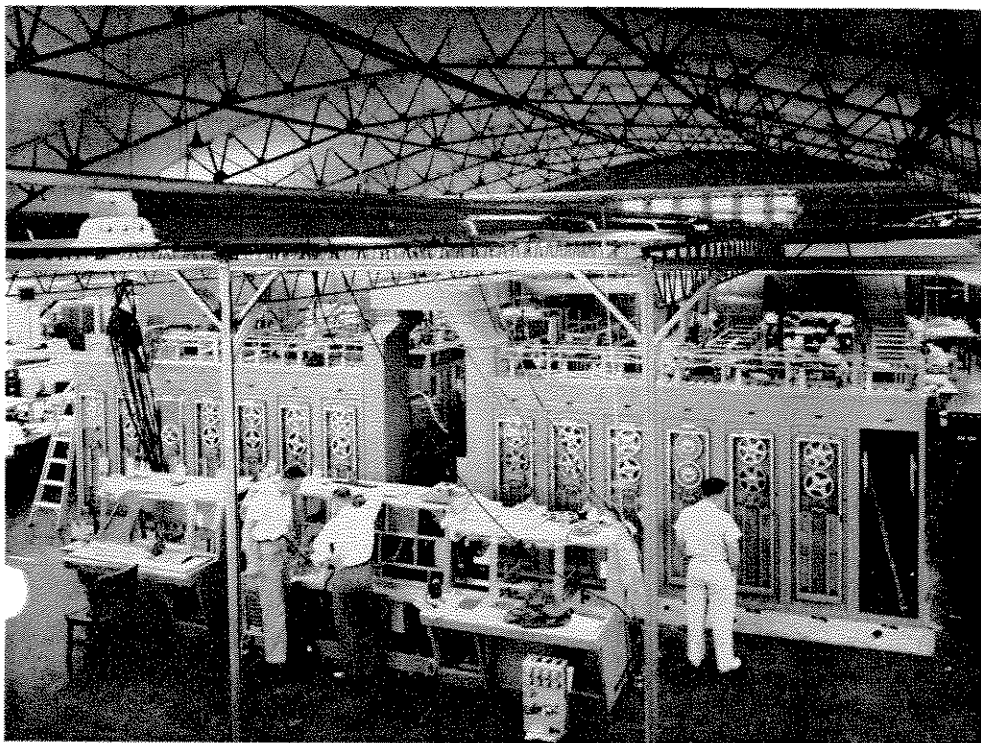
MELPAR-A-GRAPH

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

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3.5 MILLION GIRDHS JOB ANNOUNCED



THIS IS HARDWARE?? . . . In the shop talk of the electronicers, this spreading array of equipment dwarfing the men observing it is cataloged as 'a piece of hardware'. In the interests of accurate reporting, however, this GIRDHS installation at Bailey's Cross Roads is here described as 'a large piece of hardware'.

Photo by Norton

USAF'S UNIT TO FOLLOW CURRENT MODEL FOR B-58

First conceived as an essential building-block in the intricate complex of electronic equipment being developed by Melpar for Convair's B-58 Hustler aircraft weapon system, the massive computing center pictured at left now has been assigned another mission. Negotiations have been completed between the Company and Rome Air Force Depot for the construction of a second Ground Installed Reconnaissance Data Handling System destined for use by USAF.

Affectionately, and sometimes exasperatedly, described by Manager R. E. Miller's Bailey's Cross Roads cohorts as 'the biggest blank abacus ever built', GIRDHS collates, sorts, tabulates, and plots a vast mass of data accumulated by various reconnaissance techniques. Valued in excess of \$3,500,000, this second edition of a roomful of gear is expected to be the forerunner of still others, tailored to the particular needs of various military commands.

MELPAR-A-GRAPH HONORED BY INDUSTRIAL EDITORS

Second place in its class: "Periodicals other than Newspapers and Magazines" was awarded the MELPAR-A-GRAPH in the 1957 Publications Contest and Evaluation conducted by the Middle Atlantic Association of Industrial Editors.

Open to industrial and trade association publications published in the Middle Atlantic states, the evaluation was based upon any three consecutive issues appearing in 1956. The MELPAR-A-GRAPH issues entered were those of July, August, and September.

Judges for the event were members of the Connecticut Industrial Editors Association. The awards were presented at a dinner meeting of the MAAIE held June 26 at the National Press Club, Washington, D. C. Its editor, J. J. Broome, accepted the MELPAR-A-GRAPH's citation on behalf of the Company.

JUNE HIRING PACE SETS NEW RECORDS

Ranking well up there on anyone's list of the Company's hardest working groups in recent weeks, is the Personnel Department team headed by Employment Manager W. C. Schaub; day after day, throughout the month of June, Interviewers and Clerks have welcomed and processed new Melpar employees in record numbers. Though at times the waiting-rooms have taken on the appearance of a mob scene by Cecil B. DeMille, invariably 'the system' has triumphed and those open requisitions have been routed toward the Closed file.

During the week of 10 June, about 120 people were added to the rolls. An all-time, all-events high was hit during the week of 17 June when 180 people came aboard. The pace then slackened

(!) during the week of 24 June, when a mere 150 new employees were enlisted.

To the list of jobs filled by the new arrivals, there is no end. Machinists and clerks, engineers and engineering aides, assemblers and stenographers, secretaries and maintenance men, and etcetera have been brought into almost every area of the Company. But let no one within earshot of Mr. Schaub even hint that this is the end; he is apt to be clobbered with a blunt requisition, marked urgent.

To new arrivals and to old hands, Mr. Schaub addresses the same query: 'got a friend?' If you have, and if he or she can fill one of those demanding requisitions, please pass the word.

OPINION

Reliability in electronic equipment (and other equipments as well, be it quickly said) has become the number one rallying cry of military procurement. And with the missile age now experiencing its growing pains, no policy could be more valid. A lot of money, and a lot of time forever spent, is committed when one of those firecrackers is turned loose. Even a guarantee of 'your money back if not completely satisfied' will provide small comfort if one of them fails to get where it's sent.

Present in nearly equal degree is the same requirement for certain sure performance in the thousand and one devices directly or indirectly associated with the missile man's dramatic countdown. For example: the specifications for a communications system recently sent out by one of the services called for "99.9 per cent reliability" during 24-hour operation.

Those who established that demand were not kidding; and none who studied it cracked a smile (though they may have groaned, softly). Because of just one aspect of the system's planned use, the demand plainly was founded on reason, not caprice.

Attainment of any such 99.9 objective involves far more than de-rating com-

ponents or, like the ads say, buying brand names only. The idea man still may be allowed his first thought: 'will it work?' But then he must promptly qualify the question . . . 'every time?' And all who follow after him—engineer, designer, draftsman; buyer, machinist, assembler, and inspector—must contribute to the final, affirmative answer.

Here at Melpar, though we realize that perfection as a goal is less attainable than the concept of absolute zero, we always have made it a major aim to hammer down the degree of imperfection in our work. At least rare, if not unique in our line of business is our vesting in the Quality Control Department of responsibility for the calibre even of developmental models; we often require such devices to meet standards closely comparable to the conventional Mil-Spec yardsticks identified with 'production' gear.

This is not easily done. It costs, and it often causes pain. But, adhering to the philosophy that quality cannot be inspected into a product and instead must be designed and built in, we acknowledge the cost and bear the pain. We hold a solid conviction that the more our customers go seeking reliability, the more they will come seeking Melpar.

WORK IN PULSE COMPRESSION DESCRIBED TO RADC AUDIENCE

Results thus far obtained from work on varied projects under study by Melpar-Boston's Research Department were described to those attending a Pulse Compression Techniques Symposium held in late June by the Rome Air Development Center at Griffiss Air Force Base in Rome, N. Y.

Senior Research Engineers S. M. Sussman and G. S. Sebestyen were Melpar-Boston's representatives at the symposium. Mr. Sussman discussed our research on "Matched Filter Synthesis Through Phase Distortion Networks" and Mr. Sebestyen reported on "Noise Modulation and Correlation in Terminal Guidance Radars".

Earlier in June, Falls Church Project Engineer T. E. Bayston and Senior Engineer S. J. Campanella briefed RADC personnel on their findings in related work, describing the development of a Speech Bandwidth Compression System.

CHEM LAB PEOPLE HEAD COMMITTEES

Honors and elections in more than ordinary number have come to members of Melpar's Chemistry Laboratory in recent weeks. During the 1957 meeting of the National Society of Plastics Engineers held in Boston during June, three Chem Lab men were elected to the chairmanship of technical committees.

Dr. P. E. Ritt, Laboratory head, was named to lead the Committee on Printed Circuits. R. F. Marshall heads the national group on New Synthetic Polymers, and E. L. Ditz will lead the society's Committee on Plastic Coatings.

At a regional conference on "Plastics For Electronics" sponsored by the Society's New England Section in Lowell, Mass., L. P. Glekas delivered a paper, co-authored by Dr. Ritt, dealing with "Thermal Shielding of Organic Dielectrics".

In mid-June, J. C. Withers journeyed

HUACHUCA WORK EXTENDED 2 YEARS

Melpar's work with the Army Electronic Proving Ground at Fort Huachuca, Arizona, has been extended through June 1959, under the terms of a contract just signed. Valued at approximately \$750,000, the new agreement significantly broadens the scope of work our Tucson, Arizona staff has been engaged in since June 1955.

The assignment will entail a wide range of systems and equipment evaluation, installation, and test. The Tucson group, headed by Field Project Engineer J. E. Swafford under the direction of Section Head B. R. Boymel, is to be expanded by at least three technical men.

Signing of the new agreement at this time had the effect of turning an untoward circumstance to good account. Our work for the Proving Ground will involve much procurement of both specialized and standard materiel; the transfer of H. R. Heath, Senior Buyer, Sub-Contracts, from Falls Church to Tucson fills the personnel need and simultaneously solves Mr. Heath's own problem. It has become imperative for him to shift his family to the Southwest for reasons of health, and he had faced having to resign from the Company and seek new employment to make the move.

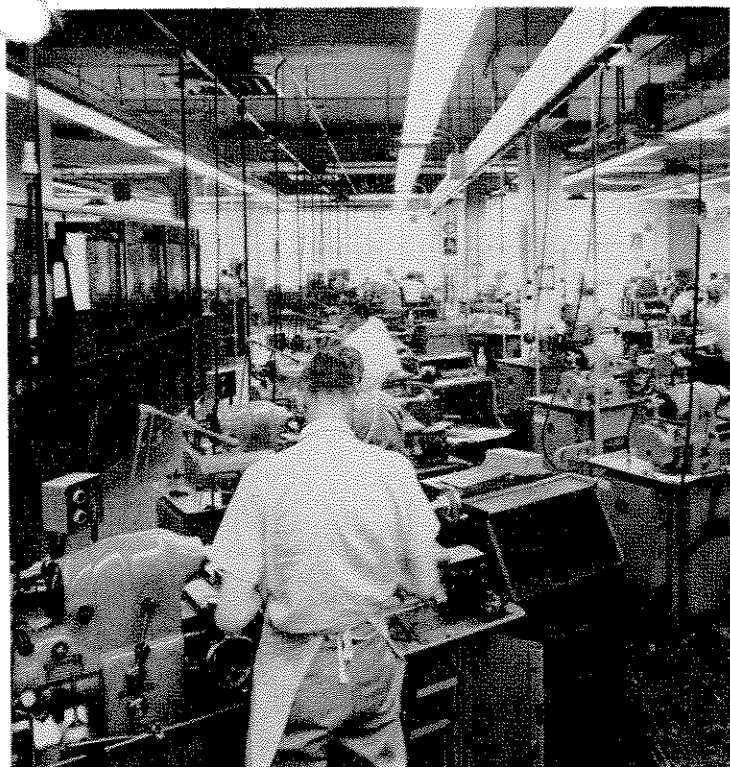
GOATLEY WINS IRE APPOINTMENTS

Simultaneous appointments, as both a member and as Secretary of the National Administrative Committee of the IRE Professional Group on Antennas and Propagation have been assigned to Coleman Goatley of Melpar's Falls Church laboratory. Mr. Goatley is Staff Assistant to Chief Engineer R. S. Butts. His committee appointments were announced by the National Chairman, Dr. John Bohnert of NRL.

to Montreal, Canada to speak before the 44th Annual Convention of the American Electroplaters Society. His paper was entitled "Iridium Plating and Its High Temperature Oxidation Resistance"; co-author again was Dr. Ritt.

The 1957 Biennial Electronic Materials Symposium sponsored by the IRE at the University of Pennsylvania heard talks given by Chem Lab members Z. A. Post, R. F. Marshall, and Dr. J. L. Pentecost.

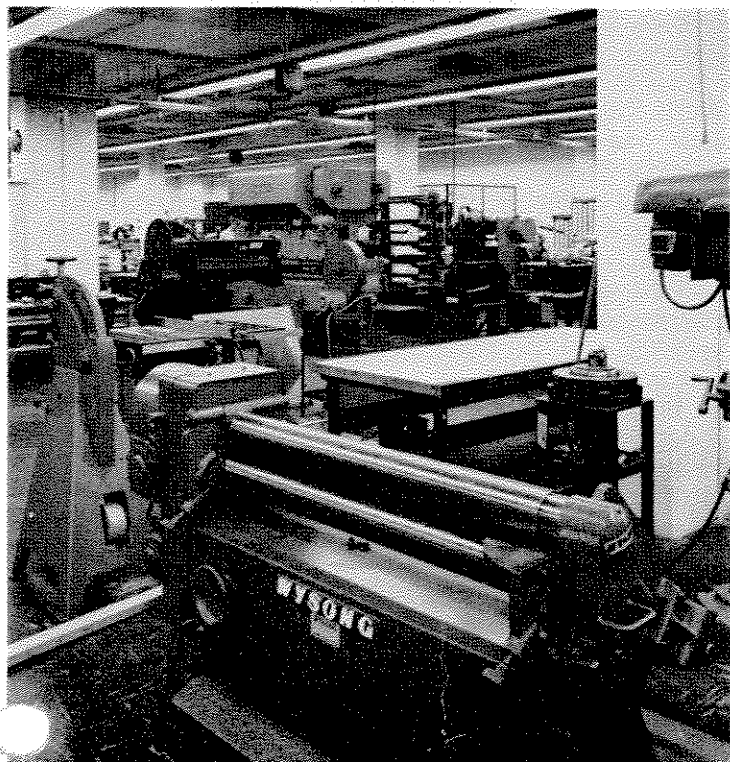
With Flash-Gun And Camera In A Mechanical Forest



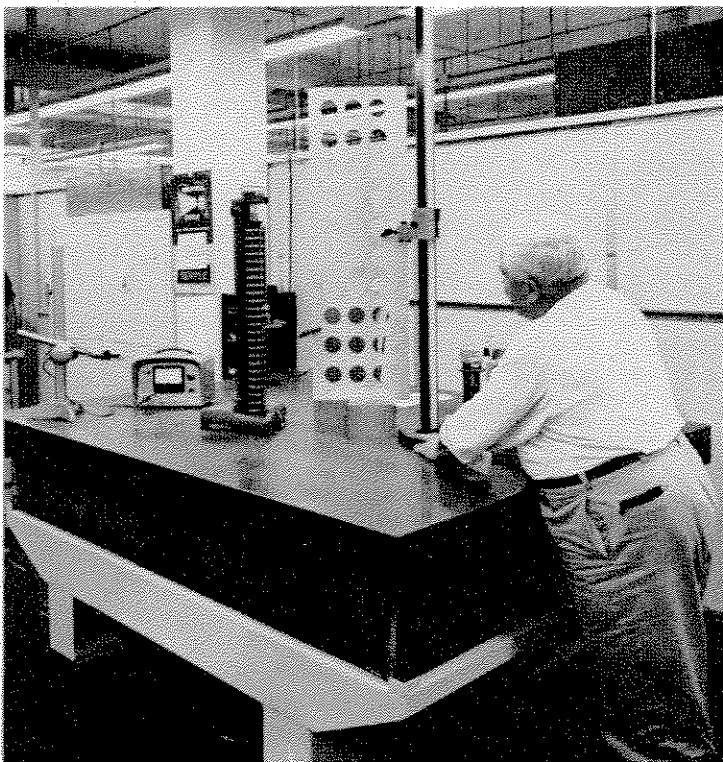
LOTS OF LATHES, in serried ranks, are a pleasing sight in the shop area now taking up the entire Lower Level North at s Church. Hardinge precision machines are featured here, where a close shave is the normal cut, while —



MORE MILLING MACHINES than are visible even in this wide angle photograph exploit still further the theme of flexibility and precision which governs the Company's equipment planning. These Cincinnati Millers are real quick-change artists.



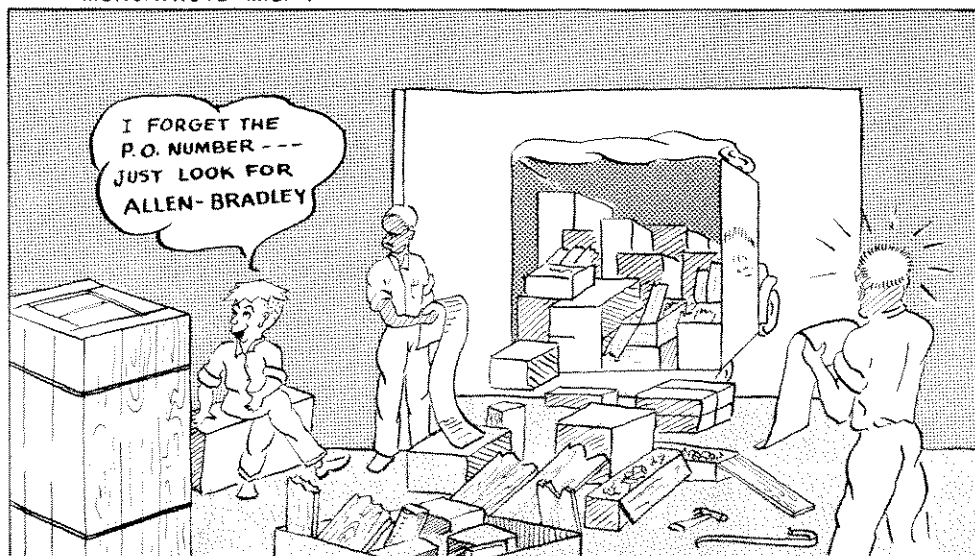
FORM IS NOT for form's sake alone, when sheet metal of all kinds and sizes is bent and stretched and squeezed and punched in this new sheet metal shop lay-out. Today's electronic equipment must do even more, in ever less space; the package just must fit.



GIVE HIM AN INCH, more or less, and he'll prove it. Inspector J. H. Sewell wants to know that all those holes are neither too close together nor too far apart—and a foot rule won't do. It takes precision to measure precision.

Photos by Tatroe

MURGATROYD MISFIT



Do you know the address, Murgatroyd?

GOING UP!

At Bailey's Cross Roads Engineering Department, Lawrence Lerner and R. H. Courtney were promoted to Section Head. Three new Project Engineers at that location are C. V. Mierzewski, J. C. Mitchell, and M. A. Price.

Corvey Division promotions include Senior Project Engineers J. G. Anding and William Menaher, Technical Writer D. J. Nailor, Senior Operations Analyst W. C. Stanton, and Secretary D. S. Harrington.

J. E. Riley of Falls Church was promoted to Senior Engineer. Advanced to Engineer were W. J. Gilwee, J. C. Evans, and S. R. Lewis. Transferred from Arlington and promoted to Engineer was C. W. Wilson.

In Arlington Division's Manufacturing Department, C. K. Balderson and C. B. Humphrey were named Sheet Metal Foreman while R. C. Little became Machinist Foreman.

At Falls Church, J. Withers rose to Engineer. Carroll Clatterbuck advanced to Lead Technician. Conrad Reifel is now a Senior Planner. E. B. Fishback and Joy Blevins rose to Secretary.

Also at Falls Church, A. W. Lee moved up to Electro-Mechanical Group Leader and D. Jose became Welder Group leader. J. P. Conkle is now a Senior Chemical Technician; R. Hohenner moved to Junior Engineering Aid.

New Project Engineers at Bailey's Cross Roads are J. A. Getz, H. H. Thompson, A. E. Kerby, and E. C. Cheadle.

Melpar-Boston announced the appointment of R. M. Snow as Associate Director of Research, and of G. E. Fellows as Technical Administrator.

In Arlington, R. Nelson was promoted to Senior Engineer; B. A. Flatley rose to Junior Engineer. L. F. Fox is now a Packing Planner. A. V. Lucian rose to 1st Class Electro-Mechanical Inspection Task Leader. J. E. Clatterbuck became Packer Leadman. J. T. Quillan moved up to Scheduler; F. M. Byrne became a Procurement Planner; K. W. Wright is Junior Production Planner and G. E. Ackley is a Senior Production Planner; R. J. Greer is a Junior Methods Engineer. J. F. Dennis was promoted to 1st Class Light Assembler.

H. M. Poulter of Bailey's Cross Roads won promotion to Senior Engineer; K. E. DeTrude rose to Junior Engineer, as did R. P. Tompas and J. R. Miller. New Senior Technicians are R. D. Taylor and F. D. Hoffman. G. M. Berry was promoted to Junior Procurement Planner.

3 CREDITED WITH OHIO STATE PAPER

Three Falls Church men were listed as co-authors of a paper entitled "Dielectric Covered Slot Radiators" which was prepared for presentation at the 1957 Ohio State University Radome Symposium held during June at Columbus, Ohio. The collaborators were Project Manager K. S. Kelleher, Senior Engineer D. M. Bowie, and Engineer R. Fratila. The presentation was made by Mr. Fratila.

ARLINGTON SHOPS CAN NOW EXPAND

Almost before the last truckload Morgan Millwork Company's possessions had pulled away from the door, Arlington Division maintenance men were invading the vacated space in force. The 25,000-foot bay which previously had broken the continuous line of Melpar-occupied structures now brings to 175,000 square feet the area occupied by the Company's production activities.

Early in July, that tight shoes feeling which now troubles more than a few of the groups at Arlington will begin to slacken as Stores and Shipping are lifted out of building E and re-housed in the new space. Promptly into E will go the Machine Shop, which is said to have outgrown its present quarters in building D. The fact that the facility will include dip brazing, plating, photo etching, and printed circuit work also is a factor.

Sharing thankfully in the benefits of a growth situation, Arlington's Sheet Metal Shop will burst its present bonds and absorb the D building space yielded by the lathes and milling machines. Its metal-working, welding, and painting activity is expected to allay any fear of floor space going to waste.

GENERAL SERVICES CHANGES FIT NEW PLANT EXPANSIONS

Organizational changes, effective July 1, 1957, designed to assure maximum efficiency in carrying out the manifold activities of the Company's General Services Department under the twin circumstances of increased personnel and a growing number of physically separate locations have been announced by General Services Director R. B. Marsh and Vice President A. C. Weid.

A newly created Office Services function has absorbed Duplicating Services, Reservations, Telephone Service, Stationery Stores, Mail Distribution, and Central Files. The activity is headed by Mrs. Dorothea Johnson as Office Manager reporting to Mr. Marsh.

At Falls Church, the functions of Shipping and Receiving and Transportation were assigned to K. L. Hastings, Staff Assistant to Mr. Marsh. Arlington Division's Shipping and Receiving Foreman W. K. Willmon reports to Plant Manager W. C. Purple. The Security Office and Guard Force, under A. E. Kastner, reports to Mrs. J. T. LaFrank, Personnel Director.