

# MELPAR-A-GRAPH

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

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## Dr. Ritt and B. D. Smith Nominated For Outstanding Career Awards

Melpar President Thomas Meloy recently nominated Physical Sciences Laboratory Manager Paul E. Ritt and Technical Staff Assistant Blanchard D. Smith for awards as the "Outstanding Young Scientist" and "Outstanding Young Engineer," respectively, in the Metropolitan Washington area, in connection with the D. C. Council of Engineering and Architectural Societies annual Engineers, Scientists and Architects Day.



Dr. Ritt

The Engineering and Architects group announce the award winners at a program to be held in Washington on February 25. At that time, three young professional men—one applied scientist, one engineer and one architect—will receive the National Capital Award in recognition of their achievements.

Dr. Ritt, who is 32 years old, is a graduate of Loyola College and holds a masters and a doctorate degree from Georgetown University. He joined the Company in 1952 and became Lab Manager in September 1958.



B. D. Smith

Mr. Smith, Staff Assistant to Vice President C. B. Raybuck, is 34, graduated from Georgia Institute of Technology and holds a Masters degree from Massachusetts Institute of Technology. He has been with the Company since 1948.

Dr. Ritt was also recently selected by the Manassas, Virginia, Junior Chamber Commerce as their nominee for one of the nation's Ten Outstanding Young Men of the Year. The awards are presented annually by the National JCC. Dr. Ritt was presented a certificate commemorating his nomination by the Manassas group.

## Pres. Meloy Serving As Symposium Head

Melpar President Thomas Meloy is serving as Chairman of the 1960 Amphibious Warfare Seapower Symposium to be held in Washington March 1-3.

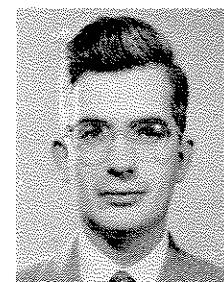
The symposium is being sponsored by the D. C. Council of the Navy League of the United States with the cooperation of the U. S. Navy and Marine Corps and will feature 106 industrial and military exhibits and a dinner for 1,400 people.

In past years, the Navy has chosen these symposiums to publicly unveil secret new weapons.

Speakers will include Secretary of Defense Gates, the Service Secretaries of the Army, Navy and Air Force, and the Honorable Carl Vinson, Chairman of the House Military Affairs Committee, as well as several top Navy and Marine Officers.

## IRE Group to Confer First W. Tuller Award

The first William G. Tuller Memorial Award, established by the IRE's Professional Group on Component Parts shortly after the late Melpar Vice President's



Dr. Tuller

death in 1954, will be awarded at the 1960 Components Symposium to be held at the Hotel Washington, Washington, D. C. on May 10.

Dr. Tuller, killed in an airplane crash in Ireland after attending an international radio scientists meeting in Europe, was one of the original founders of the IRE group sponsoring the award.

Originally intended as a student award, the basis for the award was changed to encompass the publication of an outstanding paper on component parts. Winner of the award for the year 1959 is Mr. T. R. O'Meara of the Hughes Research Laboratories. The award carries a scroll and an honorarium of \$250.

Dr. Tuller joined Melpar as a Project Engineer in 1947 and served successively as Chief Engineer, Director of Engineering and as Vice President of Engineering from 1952 until his death.

## Solder Joint Report Presented at Lecture

"Investigation of Printed-Circuit Board Solder Joints" was the theme of the Company's second evening technical lecture presented in the Falls Church cafeteria on February 3.

The report, which has been presented at several national conventions, was delivered by three of the men who helped lead the investigation—Project Engineers Richard Hronik and Sidney Levine and QC Staff Assistant P. A. Thompson.

Speaker and topic for the next lecture—open to all employees—will be announced soon.

### More Insurance Coverage— No Additional Cost

Effective immediately, our group Hospital Expense Insurance will pay up to fifteen (15) dollars for non-surgical services of a physician or surgeon required because of an accidental, non-occupational bodily injury—if the services are received within five days after the accident.

This new coverage applies to both insured employees and their dependents and supplements the basic coverage provided for injuries from non-occupational accidents. The new coverage is automatically included in each employees policy at no extra cost.

For those who like to get technical, sub paragraph (c) of the policy's Hospitalization Benefits section has been amended. The active amendment to the policy will be distributed to all insured employees as soon as possible.



**FIFTH ANNIVERSARY . . .** Director of General Services R. Brandon Marsh (right) congratulates Walter Isles, Area Supervisor for Nationwide Food Service, on his firm's fifth year of service at Melpar. Nationwide, one of the largest industrial caterers in the country, has operated the Falls Church cafeteria since January 24, 1955. On Monday January 25, the cafeteria gave away free slices of the large cakes in appreciation of employee patronage. The U. S. Senate dining room is among the other local spots catered by Nationwide. Photo by Sakamoto

## Bush Selected Judge Of Area Science Fair

Melpar Personnel Representative S. E. Bush has been selected as one of the judges for the Alexandria City's annual School Science Fair to be held on Saturday and Sunday, March 5-6.

The fair will be open to the public and student displays will be on exhibit at George Washington High School from 2-9 PM on Saturday and 1-5 PM on Sunday.

Winners of the Alexandria Fair will vie for honors in the Regional Fair to be held at Annandale on March 19-20.

## How's Your Record?

Employees are reminded that they must notify the Personnel Department of any change in address, dependents, telephone numbers, etc., in order to keep their records current.

Current information is important to employees and to the Company in the distribution of W-2 forms, determining insurance coverage and making emergency contacts.

## Patent Awarded Asten For Photoelectric Device

Senior Engineer W. P. Asten and Melpar, his assignor, were awarded a United States Patent for a Photoelectric Device on January 5.

Principal object of the invention is to control the projected and reflected light path of a photoelectric arrangement by confining an effective light beam in a single lens. Actually, it is an improved version of the familiar photoelectric control circuit which requires at least two lenses.

The single lens system developed by Mr. Asten basically consists of a polished, solid cylindrical rod made of quartz or a plastic material. Light beams guided through the rod are more easily and accurately aligned with the object and cell. Consequently, the Photoelectric Device can be used in spots where conventional photoelectric unit use is impossible or impractical.

## Division Consolidated At Watertown Plant

Consolidation of Melpar's Applied Science Division was accomplished early this month when the Company vacated the Boston plant and moved all equipment and personnel into the Watertown plant at 11 Galen Street in Watertown, Massachusetts.

Approximately 250 employees are now located in the Division's consolidated plant.

All mail normally directed to the Boston address should now be sent to the Watertown plant.

## Staff Redesignated

Melpar's Engineering Division's Technical Staff, previously under the direction of Mr. R. H. Courtney, has been redesignated the System Analysis Section.

Mr. Frank A. Browne has been promoted to Section Head and will direct the redesignated groups present contract and staff services.

Mr. Courtney has been appointed Technical Staff Assistant to the Chief Engineer.

## Mauler Is Guest Speaker

Section Head Ralph Mauler of the Detection and Identification Systems Laboratory was guest speaker at the University of Missouri's IRE Student Chapter in Columbia, Missouri on January 12.

Mr. Mauler spoke on "Advance Signal Analysis Techniques."

## Melpar Will Develop Antenna for Missile

Melpar's Antenna and Radiation Systems Laboratory recently received a contract from the Air Force's Cambridge Research Center to design and construct an antenna assembly for the Air Force Test System 609A Ballistic Missile.

The antenna is intended for installation in the fourth stage nose cone of the test missile. The Company will build and test two of the antenna assemblies.

Section Head W. O. Puro has assigned the job to Project Engineer H. H. Hibb's group.

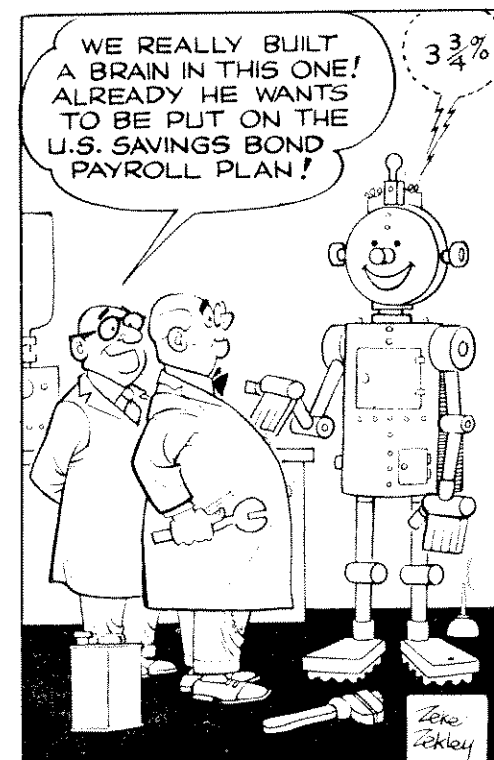
## Melpar Article Featured

Project Engineer Carroll W. Morrow and Engineer Jerry L. Moore are authors of a three-page article entitled "High-Dielectric Rod Antenna Arrays for UHF," appearing in the February 5 issue of Electronics magazine.

The article discusses the use of ceramic rods as antenna elements, especially for the UHF region.

## Holiday

Company employees will receive another three-day weekend this month. Washington's birthday, one of our seven paid holidays, falls on Monday this year. Employees are off Saturday, Sunday and Monday and will return to work on Tuesday, February 23.



## An Editorial

# Why Accidents?

Industrial accidents have been of major national concern for many years. Everyone is agreed they shouldn't happen. Many precautions are taken to safeguard employees, but accidents still continue. The question: What can be done to prevent accidents during the course of employment?

Many analyses have been made by industry, government and insurance companies; after all other factors have been accounted for, there is the one unpredictable factor for which no safety equipment has yet been devised; and that is human error and carelessness. Individual carelessness still remains the major killer and crippler in industrial accidents. This applies regardless of the nature of the work and the safeguards provided.

How then does this apply to Melpar? As a member of the electronics industry, Melpar's operation is a very safe type. There are very few things done at Melpar that are considered hazardous. Surprisingly, of the total accident picture at Melpar, the percentage that occur in hazardous areas is small enough to be insignificant.

Where do accidents happen at Melpar? Is a pencil a dangerous instrument? A soldering iron? A swivel chair? A stapler? A file cabinet? Obviously, these things are not dangerous, yet the majority of accidents here involve these items and others just as harmless. The why? Carelessness. Thru the years, we have had an excellent accident record at Melpar. Recently, the incidence of accidents due to carelessness has increased.

An analysis of some 60 accidents which resulted in personal injury to employees last year should give each of us considerable cause for concern. Accidents were classified by the following categories:

## PHYSICAL CAUSES

- Poor Housekeeping  
(misplaced material, etc.)
- Lack of Proper Guards  
(mechanical or electrical)
- Improper Apparel  
(goggles, shoes, loose clothes, etc.)
- Defective Equipment  
(hand tools, ladders, etc.)
- Defective Floors, Stairways, Ramps, etc.
- Poor Working Conditions  
(light, ventilation, etc.)
- Not Otherwise Classified

## PERSONAL CAUSES

- Dangerous Practices  
(undue haste, chance taking, etc.)
- Inattention  
(lack of thought to job at hand)
- Inability  
(inexperience, poor judgment, etc.)
- Incomplete Knowledge of Job at Hand
- Disobeying Rules
- Unfit  
(weak, easily fatigued, easily excited)
- Not Otherwise Classified

An examination of accident reports reveals that 24 of the 60 accidents were marked "not otherwise classed", that is no known physical cause, indicating that these were due to carelessness. Under personal causes those that were classified as dangerous practices, inattention and disobeying rules can also be counted as carelessness. It is shocking that of 60 cases, by far the greatest single cause was carelessness.

In 14 years of operation at Melpar, we have had one fatality and a few serious accidents. We have, however, had a number of accidents that could easily have been fatal or have maimed employees for life.

What were the causes of these accidents that have had or very nearly had very serious consequences?

To give you a few examples, one employee received second degree burns and might have been electrocuted when he leaned with one hand on a switchbox while closing a high-voltage circuit with the other.

Another employee was almost crushed when he tried to move some material by himself immediately after his supervisor told him not to touch it until his co-worker could help him. Another employee was thrown from a fork-lift while he and the driver were joy-riding in an empty storage room. Another employee walked into a post with such force that he shattered his glasses. A sliver of glass almost blinded him. Another stood on a railing while moving an awkward piece of material.

Could any of these things happen to you? Of course not! You know better than to do things like that! So don't let that soldering iron burn you. (The handles aren't hot.) Don't let the solder jump up and hit you in the eye. Try a ladder instead of a chair or a bin, when you have to climb. Keep that extension cord off the floor.

None of us want to be a statistic, especially a careless one.



**FLOOR CONNECTIONS . . .** This 92 foot ramp is one of a system that is being incorporated in the new Falls Church annex as connections between its three floors and the upper and lower levels of the existing building. The long ramp leads from the lower level of the present plant to the second floor of the annex. The short ramp on which the workman is standing runs from the lower level down to the first floor of the new building. In addition to the ramps, stairways are being constructed in the center and west end of the annex to connect that building's three floors. The annex is scheduled for completion in early September and will, in general, house the Company's service groups.

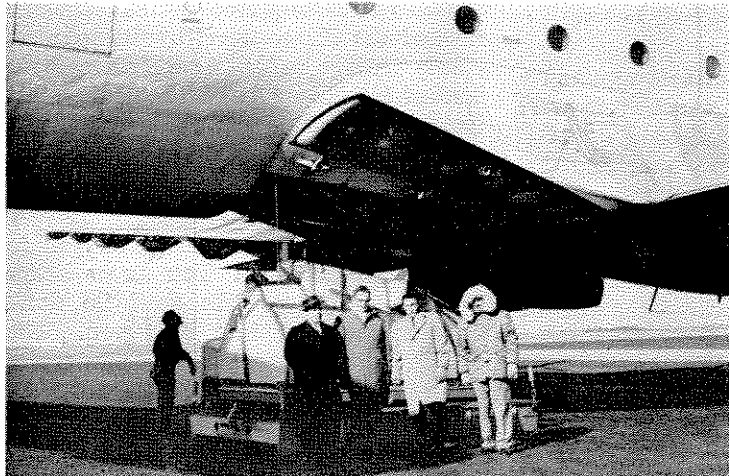
Photo by Norton

# Flight Simulator Takes to Air—(Via MATS)

One of the Melpar designed flight simulators actually took to the air on January 21. The equipment, designed to simulate flight and weapon systems of the Air Force's F-100A aircraft without leaving its ground location, was air-lifted from Andrews Air Force Base to its new location in the Far East.

The simulator, however, made the flight securely tucked away in the belly of a giant C-124 MATS cargo plane.

A veteran of over three and one-half years service, during which time more than 12,000 hours training service were logged in its cockpit, the MB-30 simulator was developed by Melpar and built by the Union Switch and Signal Division of WABCO.



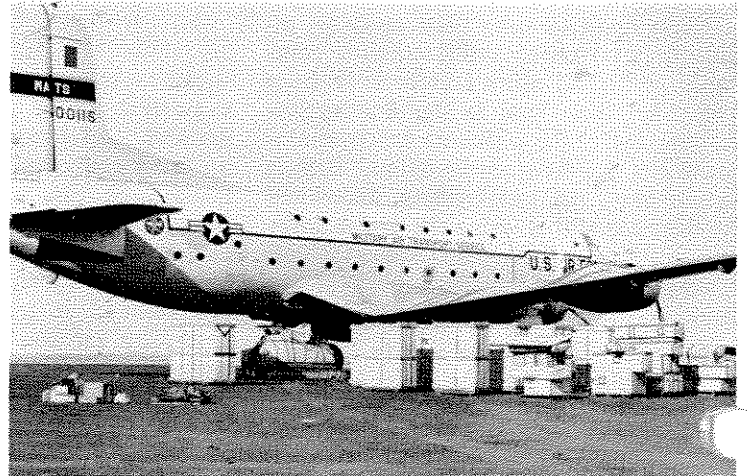
**MELPAR SIMULATOR—SPECIAL DELIVERY . . .** Despite low temperatures and cold winds, as evidenced by the parka worn by the Assistant to the Manager of the Field Service Division J. O. Dankymer, the F-100A simulator was successfully loaded aboard a C-124 transport and sent speeding toward its destination. Observing the operation is H. Theriault (left), Area Technical Co-ordinator for Ogden Air Materiel area. Field Service Engineer D. J. Nocera (second from right) accompanied the simulator to its new location. Field Service Engineer O. A. Amason (second from left) hopped a ride for a portion of the flight. Airman to the left of the loading elevator is unidentified.

It was recently delivered from Nellis Air Force Base to Shirley plant where it received an overhaul and modification by the Company's Field Engineers.

Two large moving vans were used to transfer the 16-tons of simulator equipment from Shirley to Andrews.

Field Service Engineer D. J. Nocera made the flight—nearly half way around the world—with the simulator. He will be stationed with the equipment and will help with its installation and instruction.

Another Field Service Engineer, O. A. Amason, rode the plane to a Pacific Island where he will be stationed with more Melpar equipment.



**SIXTEEN TONS . . .** of Simulator equipment is shown packaged and awaiting transfer to the big C-124 transport that carried it to the Far East. One hundred different pieces of equipment are represented by the wooden crates lined up near the plane.

Photos by Sakamoto

Falls Church promotions include R. C. Jones to Section Head, R. D. Begley to Engineering Aid and D. F. Butcher to Specifications Engineer. E. W. Herron advanced to Senior Personnel Representative, G. S. Baker rose to Staff Assistant and S. R. Jones advanced to Consulting Project Engineer.

H. C. Oliver and J. J. Haggerty were promoted to Engineer and W. K. King advanced to Draftsman. W. A. Campbell rose to Junior Engineer and D. M. MacArthur was promoted to Acting Supervisor.

M. C. Marcey was promoted to Senior Clerk Typist, T. H. Parker rose to Library Clerk, C. G. Bobinski and B. D. Thummel advanced to Lead Wire Technician.

At Hardin Street, L. L. Smith advanced to Light Assembly Task Leader and C. J. Lukowski was promoted to Planning Aid. M. M. Cio was promoted to Light Assembly Leadman, L. F. Naw-

## GOING UP!

rocki rose to Senior Budget Clerk and G. C. Doyle advanced to Planner.

Leesburg Pike promotions include C. B. Cirlin to Design Checker, R. F. Benson to Drafting Supervisor and C. S. Bailey to Specifications Engineer.

H. F. Brechbill was promoted to Design Engineer, P. C. Waters advanced to Senior Draftsman and J. B. Brown rose to Senior Engineer. A. B. Neel was promoted to Carpenter Group Leader, H. S. Willie advanced to Junior Planner and J. R. Ross rose to Junior Engineer. R. L. Thompson rose to Senior Technician and J. M. Marcev was promoted to Senior Engineer.

Columbia Pike promotions include A. L. Gray to Senior Engineer, C. C. Heeter and J. B. Reedy to Heavy Assembly Task Leader. J. A. Hershberger advanced to Junior Engineer and N. O. Brooks rose to Senior Planner. D. A. Smith ad-

vanced to Engineer and T. H. Logue was promoted to Engineering Assistant.

Arlington promotions include C. L. Potter to Senior Engineer and D. M. Morris to Senior Planner. W. A. Landymore was promoted to Supervisor of the Catalogue Unit at Alexandria.

W. Herring advanced to Lead Porter and C. E. Harris rose to Lead Stock Clerk. W. J. Huck was promoted to Senior Engineer, G. A. Kervin rose to Mechanical Engineer and D. F. Marsh advanced to Planner.

C. W. Smith was promoted to Senior Draftsman at Bailey's Crossroads. Shirley promotions include H. E. Hull to Junior Tech Writer and E. A. Puglisi to Senior Clerk Typist. R. T. Thor rose to Assistant Inspection Supervisor.

Applied Science Division promotions include F. T. Davidson to Senior Research Engineer and J. W. Glinksi to Design Assistant. R. E. O'Dea advanced to Senior Duplicating Machine Operator.