

MELPAR-A-GRAPH

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Interference Study Contract Awarded Melpar

Melpar Beacon Aids Missile Mail Delivery

A Melpar developed and built tracking beacon made the historic flight with a Regulus I missile that delivered U. S. mail for the first time on June 8, thus marking mail delivery's entry into the Missile Age.

The Regulus, which travels at more than 600 miles per hour, carried 3000 letters from the submarine USS Barbero in the Atlantic to Mayport Auxilliary Naval Air Station, Jacksonville, Florida, over 100 miles away.

Melpar's AN/DPN 48 beacon, an integral part of the Regulus' tracking system, has previously helped set records by playing an important role in nearly all the successful U. S. satellite launchings. The beacon is incorporated into many of the top U. S. missile systems and is used as a contact from missile to ground radar.

Postmaster General Arthur E. Summerfield said the 22 minute Regulus mail flight "is of historic significance to the peoples of the entire world."

FIELD ENGINEERING: CONSTANT CHALLENGE

The life of Melpar Field Service personnel is at times filled with excitement and often is a challenge to the imagination and ingenuity of the individual.

Consider the plight of Louis M. Bell, Melpar Field Service Engineer stationed in Japan.

Early this year, a frozen clutch caused pins to be sheared and extensive damage to be inflicted to a potentiometer on Melpar equipment. The equipment was disabled. Parts needed to put the equipment back into operation were not immediately available and the equipment was in demand.

After due consideration, Bell decided on temporary repairs to make the equipment operative. As replacements for the sheared pins he used drill stock from one of his drill sets. The potentiometer parts were a bigger challenge to the Field Engineer's ingenuity.

Undaunted, Bell made a quick trip to a Japanese village hobby shop, had the pot parts built by the shop's skilled craftsman and in short time the equipment was back in full scale operation.

Interference Report Presented at Seminar

Two members of Melpar's Applied Science Division presented a report at the Radio Frequency Interference Seminar sponsored jointly by the Professional Group on Radio Frequency of the IRE and the USAF Air Research and Development Command in New York City on June 15-16.

Assistant Branch Leader W. B. Floyd and A. L. Fullerton, Jr., Member of the Technical Planning Staff, presented a classified report on "Interference Prediction Utilizing a Digital Computer."

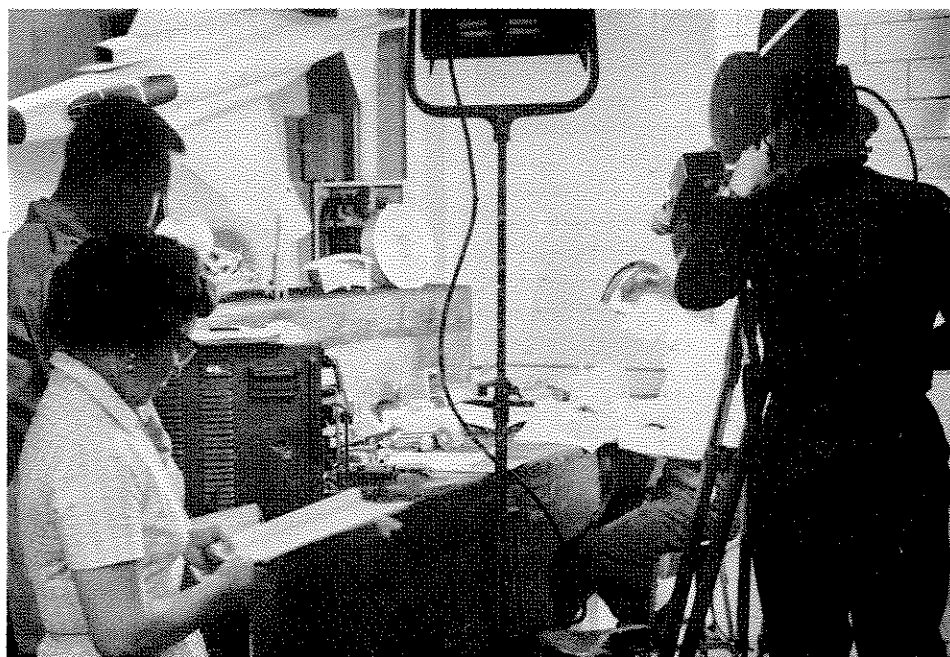
Mr. Fullerton also served as an associate panel member for discussion of interference prediction.

The Seminar was held to provide an opportunity for discussing significant problems in radio interference.

Melpar's Applied Science Division has been awarded a contract for "Long Range Communications Interference" study by the USAF Air Research and Development Command.

The contract, Phase I of a research and development program, calls for an extended study to evaluate interference between ground based communications systems and satellites. Phase I has been assigned to the Division's Research Department and is expected to be complete by March 1960.

Dependent upon the results of the study contract, the Air Force has expressed interest in developing techniques for measurement of both man made and natural interference and the development of necessary equipment to provide interference free communications. These would be the goals of Phase II and III of the interference program.



DOLLYING IN FOR A CLOSE-UP . . . A photographer from Transfilm, Inc., a New York photography agency, is shown moving his camera in for a close-up shot of an actor surrounded by Melpar equipment in the Antenna Laboratory. Under contract to the Air Force, Transfilm visited Melpar last month and shot several scenes of Company equipment and facilities for a special color moving film project being prepared for the Armed Forces Technical Information Agency (ASTIA). Mrs. G. R. Meyers from ASTIA and Lieutenant C. R. Gillen, USAF, Patrick AFB, are shown checking the movies script and directing the filming.

Photo by Meinke

Metallurgy Report Given by Huminik At New York Meet

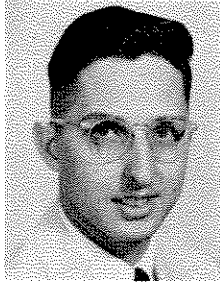
Melpar Metallurgical Engineer John Huminik, Jr., presented a report at the Vacuum Metallurgy Conference held at New York University on June 3.

The report, authored by Huminik and Dr. Paul Ritt, Jr., is entitled "Welding of Active Metals in Vacuum and Inert Gas Chambers" and is based largely on research and experience at Melpar.

Mr. Huminik, Secretary of the Washington Chapter of the American Welding Society, presented to the conference several new methods designed for welding active metallic elements.

These elements, including Beryllium, Barium, Cobalt, Titanium, Tungsten and Uranium, among others, have long posed weldability problems for industry.

Mr. Huminik is serving his second year on the Executive Committee of the American Society for Metals.



J. Huminik

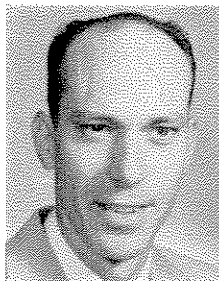
Welding Engineer Is Presented Award

Mr. Raymond Letner, Melpar Project Services Welding Engineer, was presented the Certificate of Award by the National Bureau of Standards on June 11 for developing a unique welding innovation.

The award, presented by the Bureau's Director—A. L. Astin, was given Mr. Letner "in recognition and appreciation of distinguished service" during a ceremony held at the Bureau of Standards in Washington, D. C.

Mr. Letner is credited with the basic research and development of a method for fabricating and welding thin walled cylinders.

The method developed by Mr. Letner is responsible for saving thousands of man hours, according to W. L. Drissel, Assistant Chief of the Central Shops Division of the Standards Bureau.



R. Letner

Several Sections Shift Locations At Northern Virginia Plants

In line with Melpar's continued expansion program, several significant group relocations and expansions were made in Northern Virginia last month.

The shifts and additions of space were made possible by the Simulation and Training Systems Engineering Department's move to its new headquarters at the Shirley plant. The space formerly occupied by this department on the lower level of the Falls Church plant has been apportioned to several groups.

One part of this space was recently occupied by Section Head C. Volk's section of Antenna Radiation Systems Engineering. Mr. Volk's group moved from Columbia Pike and Alexandria. Other sections of the Simulation space are now occupied by portions of Quality Control, Tech Writing, Timekeeping and the Chem Lab Annex.

The Central Files, Mail Room, Reservations and related offices moved from the main level to space formerly occupied by Quality Control on the lower level.

The Library gained more room by moving into space previously occupied by Tech Writing. Tech Writing, in turn, was split into two separate locations, on the lower and the main levels.

Contract Administration and the Chem Lab now occupy space formerly used by the Library, Central Files, Reservations and the Mail Room.

Also, the section of Purchasing designated to service the Production Division moved from the Falls Church main level to the Division's Arlington plant.



Dr. Paul Ritt

Engineering Group Spreads Operations

Melpar's Detection and Identification Systems Engineering is rapidly becoming an international operation.

Nine members of the group were engaged in evaluating, testing and installing Melpar equipment at three different locations on two different continents last month.

Four members of the group were installing Melpar built equipment at Tokyo, Japan. They are Section Head Donald Reiser, Manager Leonard Kings, Project Engineer Howard Burns and Senior Engineer Howard Moser.

Senior Engineers Othel Adams and Robert Finneran ran field evaluation tests at Elmendorf Air Force Base at Anchorage, Alaska.

A third group was busy at Patrick Air Force Base, Florida, running field tests on Melpar equipment. Detection and Identification personnel at Patrick were Project Engineer Kenneth Stetten, Senior Engineer Albert Wavering and Engineer Sinclair Frederick.

Chem Lab Manager On Washington TV

Dr. Paul Ritt, Manager of Melpar's Chemistry Laboratory, presented a demonstration of electronic microminiaturization for television viewers in the Washington area on Saturday, June 27.

Appearing from 8-8:30 A.M. on WTOP-TV's program "Space Age," Dr. Ritt discussed and demonstrated the present state-of-the-art of microminiaturization, developments in the immediate offing and circuits planned for the future.

This is the second time Dr. Ritt has appeared on TV programs in recent months. On May 25 he presented a science career guidance program to Washington County, Md., high school students on the County's closed circuit TV channel.

ONE OF THE AREA'S BEST

Melpar's Photo Laboratory Provides Valuable Services

Noted as one of the best equipped facilities in the Washington area, Melpar's Photography Laboratory is one of the Company's busiest sections.

The Lab's three cameramen—Senior Photographer Richard Sakamoto and Photographers Lyle Tatroe and Gordon Norton—“shot” over 22,000 pieces of equipment, portraits, scenes and assorted other objects during 1958. In addition, Lab Technician Russel Meinke and Lab Assistant Shirley Hounshell processed more than 19,000 black and white prints, plus color, during the year.

A far cry from the one-man, one room lab that was started by Project Engineers Ben Dennison and John Glover at the Alexandria plant in 1948, the present laboratory at Falls Church has five well equipped but small rooms.

One room serves as a combined studio-office, another is used to process black and white prints and a third houses the Lab's large process copy camera. The fourth and fifth rooms are used for color printing and processing and print washing and drying.

Mr. Sakamoto, former State Department photographer and member of several

professional photographic societies, recalls that “Since we obtained our color facilities we have shot and processed about 10 color movies to demonstrate Melpar equipment.”

Under Sakamoto's direction, color facilities were set-up in the Lab in 1956. The Lab now has one of the most modern color processing units in the area.

The Photography Laboratory provides general photo service to all Company departments. Some of the diversified work that the Lab is required to do includes photos for trade publications, copy work for multilith, Melpar-a-graph photos, handbook photos and portraits.

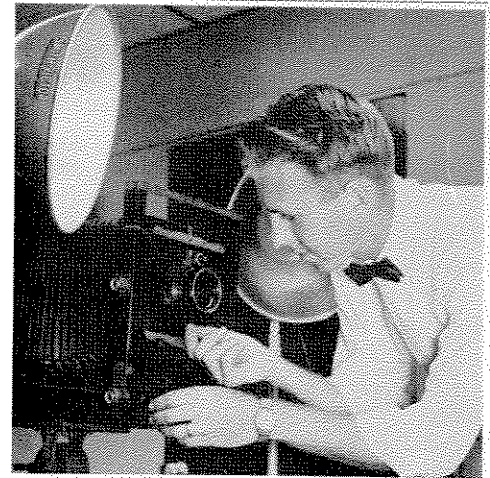
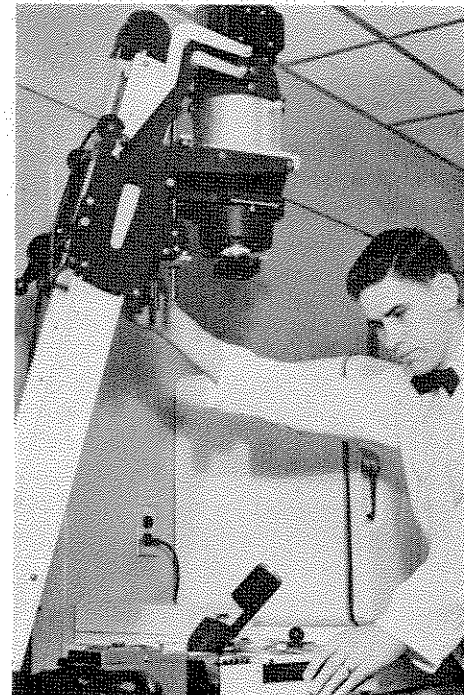
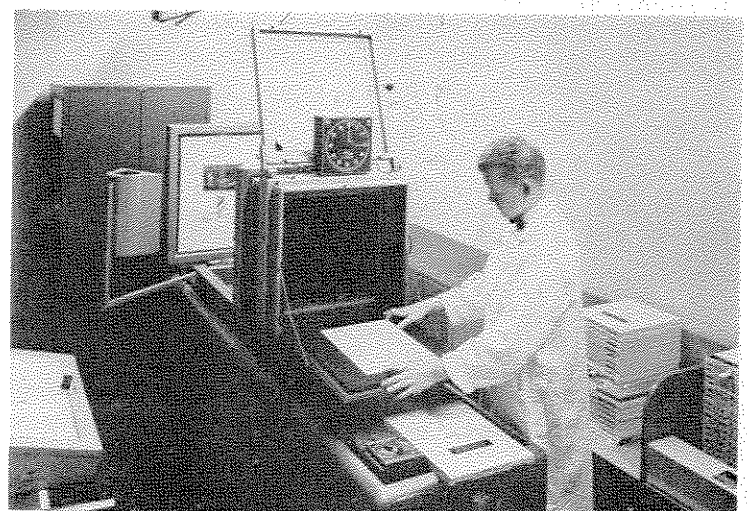
The Lab also makes photos for record purposes. “One of the record photos the Lab is asked to make,” states William Van Doren, Technical Writing Supervisor in charge of the Photography Laboratory, “is to get shots of damaged equipment that is occasionally received by the Company.”

Photographer Lyle Tatroe was recently assigned to a night shift in order to expedite the photography work load.

Melpar's work includes many highly classified contracts which require photography that cannot be turned over to commercial photo labs. This photography work can now be completely processed in the Company's laboratory by experienced and well trained personnel.



SAKAMOTO

Photographer Lyle Tatroe
... setting apertureLab Technician Russel Meinke
... focusing enlargerPhotographer Gordon Norton
... checking light meter readingLab Assistant Shirley Hounshell
... operating process camera

GOING UP!

Falls Church promotions include A. T. Elgin to Assistant to the Director of Contract Administration and R. J. Anderson and L. P. Tuttle to Senior Engineers. J. P. Edminsten advanced to Chemical Engineer and W. V. Roach rose to Pay-roll Group Leader.

B. J. Rasmussen advanced to Junior Forms Analyst and W. T. Cullipher rose to Lead Tabulating Equipment Operator. D. F. Martin and J. E. Smith were promoted to Secretary and R. J. Gaspari advanced to Procedures Analyst.

D. S. Muhlenberg was promoted to Senior Mechanical Engineer P. Kraft and D. H. Casto rose to Secretary. T. E. Miller advanced to Drafting Supervisor and F. A. Fenton was promoted to Contract Administrator.

M. T. Taylor advanced to Procedures Analyst and R. E. Brockman rose to Senior Personnel Clerk.

Leesburg Pike promotions include C. S. Krakauer and V. G. Gedmin to Principal Engineers and J. L. Corley to Engineer. F. X. Halligan advanced to Senior Test Engineer and W. W. Gunn rose to Junior Engineer.

R. D. Meyer advanced to Junior Test Engineer and V. L. Watson was promoted to Secretary. D. J. Murphy advanced to Planner.

Arlington promotions include W. J. Lunglhofer to Senior Engineer and M. T. Danley to Junior Methods Engineer. T. F. Smith rose to Senior Planner and C. T. Rhodes advanced to Planner.

C. M. Whitmarsh and B. L. Thomas were promoted to Secretary and G. T. Klop rose to Planning Supervisor. B. McCrery advanced to Purchasing Assistant and R. G. Chilton rose to First Class Heavy Assembly Task Leader. E. B. Emshiller was promoted to Assembly Foreman and S. Heilig advanced to Control Clerk.

J. L. Buckler was promoted to First Class Task Leader and P. T. Davies advanced to Clerk Typist. E. W. Powers rose to Engineering Assistant and K. Gregory became a Senior Personnel Clerk.

H. E. Ronen was promoted to Storekeeper.

Bailey's Crossroads promotions include A. R. Gordon to Senior Mechanical Engineer and C. E. Amory to Senior Engineering Assistant.

Columbia Pike promotions include R. A. Castle and G. W. Koditek to Senior Engineers and R. G. Zello to Project

NEARLY ONE HUNDRED

Melpar Engages Science Students As Temporary Summer Employees

Melpar is helping to finance the education of nearly 100 young engineering and math students by affording them temporary employment, according to Employment Manager Frank Drummond.

Approximately 75 of the employees lending their technical ability and aid to the Company in order to defray education expenses are college students temporarily employed for the summer. This group includes several recent high school graduates who intend to enter college for the first time this Fall.

Another 20 of the temporary employees are working on a cooperative basis. These employees have a working agreement between Melpar and the school they are attending. The Co-op employee alternates between work and school on a quarterly basis.

Melpar's Co-op employees are not all from the Washington area, a number of them are natives of locales hundreds of miles from Melpar and some attend colleges as distant as Georgia Tech.

Melpar attempts to place all Co-op employees on varied projects to give them job experience applicable to their studies.

Among Melpar's summer employees is

17-year-old Raymond E. Rogers who was recently awarded a 300 dollar scholarship by the faculty of Falls Church High School on the basis of his ability in math and science. Mr. Rogers is presently lending his talents to the Falls Church Antenna Laboratory. He hopes to enter Roanoke College on a scholarship to pursue studies in mathematics in September.

Another top high school graduate, James L. Oliver of George Mason High School in Falls Church, is employed in the Production Division at the Arlington plant. Mr. Oliver was an all around student at Falls Church. He recently entered competition and won a 1700 dollar per year scholarship to Princeton University. He expects to leave Melpar in late Summer to begin engineering studies under terms of the scholarship.



JAMES L. OLIVER
... Princeton "U"
Scholarship ...

Planning Supervisor. B. F. Hall advanced to Junior Methods Engineer and W. H. Gann rose to First Class Heavy Assembly Task Leader.

C. Zimmerman advanced to Electro Mechanical Inspector Group Leader and J. F. Ray rose to Senior Mechanical Engineer.

Shirley promotions include H. Haugen to Senior Administrative Engineer and H. Briefel to Senior Technical Writer. E. H. Kuscumoto advanced to Senior Spares Planner and A. Dixon rose to Secretary.

R. A. Watt advanced to Drafting Checker, R. A. Noel rose to Junior Spares Planner and G. E. Puckett was promoted to Senior Mechanical Engineer.

Applied Science Division promotions include C. L. Fobes to Model Shop Supervisor and C. L. Randall to Design Assistant.

Goldin Gives Report At Marine Academy

Milton Goldin, Member of the Technical Staff of the Reconnaissance Systems Engineering Department, presented a report at the Institute of Navigation Meeting held at the Merchant Marine Academy at Kings Point, N. Y., on June 19.

The report, co-authored by Messrs. R. H. Courtney, M. M. Risdon and M. Goldin, describes the operation and development of the Melpar designed Global Navigation Display.

HOLIDAY

July 3 will be an official Melpar Holiday. Independence Day, one of the Company's seven paid holidays falls on Saturday, July 4, and Melpar employees will celebrate the occasion with three days off on Friday, Saturday and Sunday, July 3-5.