

melpar-a-graph

MELPAR, INC.

A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE COMPANY

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September, 1967

Melpar Wins Iranian Telecommunications Contract

Melpar has been selected to play a vital role in the long distance telecommunications systems soon to be built for the government of Iran.

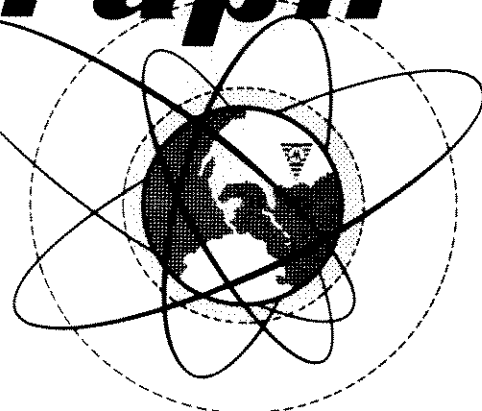
According to **Jay V. Wilcox**, president, Melpar has been awarded "quite extensive" contracts by the Iranian government for the planning, design and supervision of construction and installation of the telecommunications systems.

The three-year, multimillion dollar program is expected to provide the Iranian Government's long distance telecommunications network with a capability of first-class communication

to all developing areas of the country. It will assist Iran in the expansion of planned agriculture, commerce and industrial programs.

"Melpar has the overall supervisory responsibility for this program," Mr. Wilcox said.

The Telecommunication group is under the direction of **R. S. Butts**. **W. H. C. Hall** is the Associate Director of Telecommunications and Manager of Middle East Region, **T. F. Forrester** is Project Manager of the Iran contract for Caspian Shore Telecommunications and related links.



Dr. R. Burton Power Now Vice President, Research

Dr. R. Burton Power has been elected to the post of Vice President of Research.

The announcement was made at the board of directors meeting held on August 3rd.

July/August Contracts Exceed Nine Million Dollars

Marketing Vice President **S. L. Dance** has announced that Melpar was awarded new contracts and change orders to existing contracts totaling more than nine million dollars during July and August. This figure includes the FINDER Maintenance and the Iranian telecommunications contracts mentioned elsewhere in this issue of the Melpar-a-graph. July contracts

exceeded \$5.6 millions making the largest total dollar month in 1967. Other contracts were received from U. S. Naval Training Device Center, Grumman Aircraft Engineering Center, NASA Houston, Engineering Research and Developments Laboratory, McDonnell Aircraft, and Naval Air Systems Command.

MELPAR SIMULATOR LOGS 28,000 TRAINING HOURS

The RF-101 flight simulator at the Shaw Air Force Base Training Devices Section has recorded 28,000 hours simulated flying time, more than any RF-101 trainer in the Air Force.

The Melpar built simulator has operated for the last 1½ years with 100% in-commission time.

The trainer, one of two still in use by the Air Force, was the first RF-101 simulator built. Melpar is presently under contract to modify the trainer to provide additional simulation capabilities.

Since the first pilot was checked out in March 1957, more than 2500 students have logged time in the simulator as part of the RF-101 training course.

Student pilots spend a minimum of 10 hours in the simulator before they are allowed to fly the RF-101. Other duty pilots spend one hour per month in the trainer as part of their continuing proficiency training.

Use of the simulator enables pilots to experience emergency conditions and can duplicate flight in adverse weather. It is also used for cockpit familiarization and can give the pilot a preview of letdown onto an unfamiliar field.



Dr. R. Burton Power

Dr. Power joined Melpar as Director of Research, coming from Hazeltine Corporation of Little Neck, N.Y., where he held a similar position. From 1960 to 1963 he was associated with Tung-Sol Electric, Inc., Newark, N.J. as Vice President, Engineering.

Dr. Power received both a masters and doctors degree from Harvard; he performed his undergraduate studies at University of Kansas. He is the author of numerous technical articles and holds a number of patents.

CARAU HEADS RELIABILITY AND QUALITY ASSURANCE

F. L. Carau has been appointed Manager of the Reliability and Quality Assurance Department and Acting Manager of the Metrology Laboratory, reporting to J. P. Chambers, Vice President and Acting General Manager.



F. L. Carau

Mr. Carau joined Melpar as a Technician in May 1948. He progressed to Jr. Engineer, Engineer, and Senior Engineer in the Quality Control section. He later became Test Equipment Supervisor and Metrology Lab Manager.

Frank was educated at George Washington University and is a member of the Instrument Society of America. His hobbies are square dancing and calling, boating and woodwork. He and his wife Gladys reside in Vienna. They have a son Frank, a student at VPI, and a daughter Kathleen, at home.

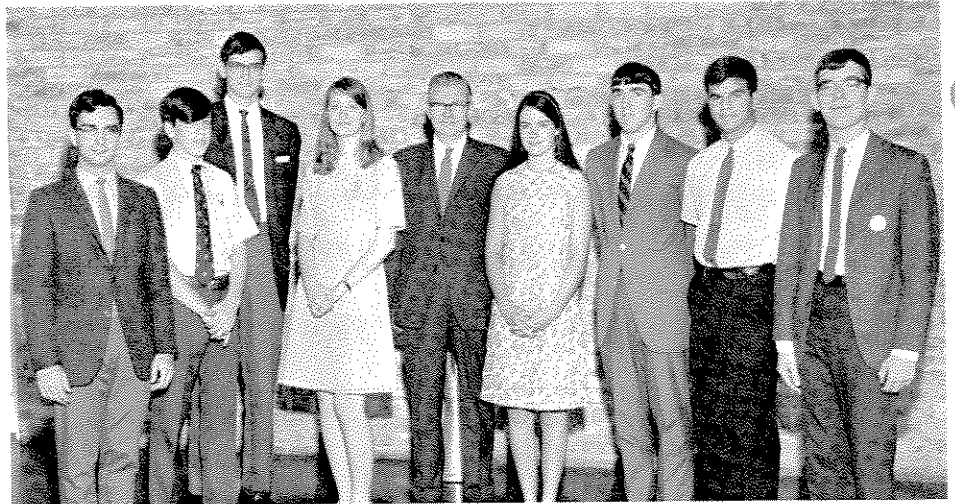
GOING UP!

July and August brought promotions and reclassifications to the following employees:

S. H. Brannon to Senior Manufacturing Assistant, J. C. Kim to Technical Assistant to Department Manager, J. N. Goeser to Branch Supervisor, R. L. Schmadebeck to Senior Electrical Engineer, J. O. Holmes to Senior Draftsman B.

H. L. Bynum and L. D. Jessee moved to Systems Engineers, W. L. Wilson to Design Engineer, J. W. Evans was made Lab Manager.

Willie N. Dingus advanced to Security Assistant, E. H. Haugen to Senior Administrative Assistant, W. F. Zimmerman to Branch Supervisor and W. R. Lanier to Senior Physicist. Congratulations to all!



SUMMER SCIENCE RESEARCH PROGRAM ENDS . . . Pictured here with Dr. R. Burton Power, Vice President for Research, are the National Science Foundation students who were assigned to various research projects at Melpar this summer. From left to right, they are: Wayne Fisher of McLean, Astro Chemistry Branch, William Savidge of McLean, Instrumentation and Chemistry Laboratory, Clifford Shaw of Annandale, Signal Analysis Branch, Evelyn Struder of Alexandria, Virology Branch, Dr. Power, Anne Iarrobino of Falls Church Virology Branch, Joseph Spann of McLean, Microbiology Branch, John Sethian of Arlington, Fixed Wing Laboratory, and Alan Pendleton of Alexandria, Signal Analysis Branch. Photo By Glittenburg

U. S. & S. DIVISION RENAMED

Westinghouse Air Brake Company (WABCO) has announced the change of name of its Union Switch and Signal Division, located in Swissvale, Pa., to the **Signal & Communications Division**.

The Signal and Communications Division markets traffic control, signaling and communications equipment for railroads and mass transit systems; pipeline control systems; and remote control systems for locomotives, cranes, tractors, and other vehicles and equipment. Utilizing similar technologies and capabilities it also supplies electrical control components to the aerospace industry.

The Signal and Communications Division has been a leader in its field since its organization in 1881. It has expanded its activities in recent years from its traditional traffic control, signal and communication systems for the railroad and transit industries to include control and communication systems for the petroleum, construction, aerospace and general industries.

Even with its added activity and business from current diversification operations, S&CD is still the largest producer of railway signaling and control systems in the world. It also is the sixth WABCO division to undergo a name change this year as part of a continuing program to more closely relate WABCO with its markets.

WILCOX UHF RECEIVER DELIVERY

The first of two preproduction UHF Receivers was recently completed for delivery to Wilcox Electric Company by the Communications Laboratory. The receivers are basic Wilcox VHF Models 792A which have been modified to provide a 225-400 megahertz coverage under contract to Wilcox Electric.

The VHF to UHF conversion employs a unique helical resonator designed by Sr. Mechanical Engineer C. Wild, Sr. Electrical Engineer E. A. Rose, Jr., and Lab Manager N. Ishman. It employs "field effect" transistors for RF amplification and conversion. The modified receiver met, or exceeded, all performance specifications and design goals.

Wilcox engineers, Harold Boone and Si Kelly have worked closely with Melpar's Communications Laboratory staff to add this new receiver to the Wilcox product line. Dick Lenert was the Melpar Principal Engineer on the project.

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Editor Jane K. Smith, Ext. 2706

EARNINGS IMPROVEMENT PROGRAM AHEAD OF TARGET

Al Ross, Cost Reduction Administrator, has announced that progress toward our 1967 savings goal of \$75,000 is 30% ahead of the cumulative monthly average needed to attain this goal. Progress of each Organization toward their individual goal is as follows:

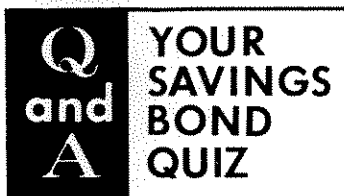
Organization	Savings to Date	Organizational Goal
Operations	\$170,375	\$200,000
Personnel	73,574	100,000*
Reliability & Q.A.	46,674	75,000
Marketing	313	20,000
Finance and Accounting	27,273	15,000
Engineering	12,251	25,000
Research	29,340	50,000
Purchasing	222,401	165,000

*Personnel exceeded their original goal of \$51,000 within the first six months and has established a new goal of \$100,000.

Employee suggestions have resulted in a significant contribution toward our achievement with acceptance and implementation of ideas such as those

submitted by the VIP Honor Roll employees for the month of June. These employees include: M. L. Wood, M. Turner, S. Dellinger, Shirley Dee, Freida Bernhard, A. Couvillon, W. Cowan, and E. Sanford.

If you have an idea which you feel would result in an improvement, reduced costs or reduced errors, submit it now on Form GO-340, which is available from any of the Earnings Improvement Displays located throughout our buildings. If you have any questions or need assistance, don't hesitate to contact your supervisor or your Organizational Representative.



Question: Back in the early 1940's, my aunt bought a number of Series E Bonds in various War Bond drives. We came across them the other day while helping her clean out some papers. Are they any good?

Answers: Just as good as the day she bought them; even more so, because interest has been accruing on them since that day and is continuing to accrue. No E Bond ever sold has stopped earning interest.

Question: Since I have no relatives, how do I go about naming my church as the beneficiary or co-owner of the Savings Bonds I own?

Answer: Unfortunately, you can't. Regulations provide that bonds issued must name natural persons only as beneficiaries, but you would write a will leaving the bonds to your church. Bonds may, of course, be purchased by you in the name of the church as sole owner.

Question: My wife and I hold a number of Series E Savings Bonds. We will have to redeem some of them this year to meet anticipated expenses. That's why we bought them and held them. What's the best time of the year to cash our Bonds?

Answer: Normally, on the anniversary date of your Bonds, or at six-month periods thereafter. E Bonds gain in value every six months.



REELING IN THE SAVINGS Freida K. Bernhard of Incoming Inspection demonstrates her idea which was accepted and implemented, resulting in a savings of \$8,761. Mrs. Bernhard was alerted to the extensive time required to inspect components such as resistors, capacitors, and diodes, which are taped together and procured in long strings wound on reels. The old method involved unwinding the components into a box, then rewinding them without tangling back onto the hand-held reel, while performing the inspection. As noted in the above picture, the new method includes the use of two surplus film rewinding devices, which were slightly modified to enable mounting of a reel of components on one device and an empty reel on another. This allows easy transfer of the components from one reel to another while testing those in between, eliminating 50% to 80% of the inspection time.

Photo by Sakamoto

SAC Awards Melpar Finder Maintenance Contract

Melpar has received a \$500,000 contract to perform maintenance on the Strategic Air Command's huge FINDER computer which Melpar designed and installed at SAC's headquarters in Omaha, Nebraska. The complex system consists of 89 major assemblies of special purpose data processing equipment plus a modified general purpose computer—all occupying some 7000 square feet of floor space. Melpar maintains a staff of 22 employees, under the direction of Systems Supervisor Dallas Ralph, in Omaha to service the FINDER computer.

Levine Heads Ft. Monmouth Field Office

Donald S. Levine, Sr. Marketing Representative, has been appointed head of the Ft. Monmouth, N. J. field office.

Mr. Levine comes to Melpar from Sylvania Electronic Systems, West Long Branch, N. J., where he served as district manager for the Company's Ft. Monmouth office.

He was previously employed by General Time Corp., Stamford, Conn., as a regional marketing representative, a post he held for two years.

In his new assignment, Mr. Levine will have technical and marketing responsibilities with various agencies represented by the U.S. Army's Electronic Command at Ft. Monmouth.

Mr. Levine is a 1957 graduate of Northeastern University where he received his bachelor's degree in electrical engineering. The Levines and their four children reside in East Brunswick, New Jersey.



MELPAR ANNUAL REPORT WINS MERIT AWARD

President Jay V. Wilcox has been advised by Financial World, America's investment and business weekly, that **Melpar's 1966 Annual Report** has been chosen for recognition with a "Merit Award" in the Financial World 1967 Annual Report Survey.

Selection of the Melpar report for the award is testimony of its overall excellence in content and design. By this achievement, the report becomes eligible to compete for a coveted Oscar-of-Industry trophy.

The coordination of production for the report was handled by Sr. Publication Specialist **R. J. Mendelsohn**, and was designed by Sr. Illustrator **George D. Schwald**.

ON THE DIAS

Dr. A. R. Schuler, Consulting Project Engineer in the Applied Electronics Department, was co-author of two separate papers appearing in the May '67 Transactions of the IEEE on Aerospace and Electronic Systems. The first paper, entitled "Measuring Rotational Motion with Linear Accelerometers" was principally authored by Dr. Schuler with co-authors Dr. A. Grammatikos of New York University and Professor K. Fegley of the University of Pennsylvania. The second paper, entitled "Damping Gimbalness Inertial Navigation Systems" was co-authored with the same two professors.

INSURANCE AND PENSION SERVICES

Employees are reminded of the following item from the August 4th Melpar-a-graph EXTRA.

NEW HOURS - PENSION AND INSURANCE DESK

Hereafter, the Pension and Insurance Desk of Personnel will be open to receive employee visits and telephone calls during the following hours:

08:00 - 12:15

14:30 - 16:45

It will be closed from **13:00 to 14:30** to permit faster processing of employees outgoing claims and incoming payment checks.

Melpar Employees Observe Anniversaries

Twenty-six employees were guests at the July-August Pin Luncheon held in the cafeteria on August 16th. Pictured here are the employees who observed their twentieth, fifteenth and tenth anniversaries with Melpar and received their service pins.



TWENTY YEARS
J. W. Glover

FIFTEEN YEARS



J. F. Hilfiker



F. E. Olzewski



J. L. Sibole

TEN YEARS



G. L. Testerman



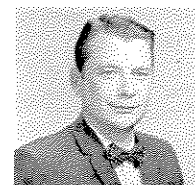
C. O. Rader



Jane K. Smith



C. H. Nelson



J. E. Moore



R. M. McNeal



E. P. Jordeth



A. E. Hilker



K. Wong



J. T. Goode



J. J. Felice



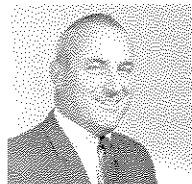
T. N. Bevans



O. Stiegler



S. F. Muzidal



H. L. Michael



F. J. Klenofski



W. J. James



Elsie M. Gormley



J. L. Fisher



R. C. Earnshaw



C. C. Cleaves



R. R. Spangler