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MELPAR, INC. A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE COMPANY

Volume 12, No. 5 July, 1967

Business for First Six Months of '67 Exceeds $17.2 Million

Melpar Vice President and Acting General Manager, J. P. Chambers, has announced that total new business for the first half of 1967 has exceeded $17.2 million. May contracts totaled $2.0 million, and June bookings were in excess of $5.2 million making it the largest single month since January 1966 when $4.5 millions were booked.

May and June business included, among others, contracts from NASA Manned Space Craft Center, Houston, U. S. Air Force, U. S. Army, Naval Training Device Center, Grumman Air Craft Engineering Center, Harry Diamond Ordnance Laboratories, and National Institutes of Health.

Dr. R. Burton Power New Director of Research

Dr. R. Burton Power

Jay V. Wilcox, Melpar's President, has announced the appointment of **Dr. R. Burton Power** as Director of Research, reporting to J. P. Chambers, Vice President and Acting General Manager. He will have staff cognizance over all Melpar research activities.

Dr. Power comes to Melpar from Hazeltine Corporation of Little Neck, N. Y., where he was Vice President and Manager of Research responsible for management of their research laboratories. Before that time, he had been Vice President for Engineering at Tung-Sol Electric, Inc. From 1950 to 1960 he was Chief Scientist for the Army Ordnance Corps. Prior to that, he was Professor of Engineering Research at Pennsylvania State University.

He received his BSEE from University of Kansas, his MS and his Doctor of Science from Harvard. He is listed in American Men of Science and Who's Who in Engineering. He is a member of IEEE, the Society of Automotive Engineers, the American Ordnance Association, and the American Association for the Advancement of Science.

At the same time, Mr. Wilcox announced the promotion of **Dr. J. L. Pentecost** to Associate Director of Research reporting to Dr. Power. Dr. Pentecost had formerly served as Assistant Director and Acting Head of Research, Head of Technical Staff, Lab Manager and Supervisor of Materials Branch.

Dr. J. L. Pentecost

He joined Melpar in 1956 as a Senior Chemical Engineer in the research division. He received his BSE at Georgia Institute of Technology, his MS and PhD at the University of Illinois.

He is a member of the American Ceramic Society, National Institute of Ceramic Engineers, American Radio Relay League, Keramos, Tau Beta Pi, Sigma Xi, Alpha Chi Sigma, and the American Society for Metals. He has authored or co-authored thirty-two papers and presentations and is the holder of one patent.

WABCO Board Elects J. V. Wilcox Director

Jay V. Wilcox, President of Melpar, was elected a director of Westinghouse Air Brake Company (WABCO) at the meeting of the **WABCO** Board held July 6, 1967.

Mr. Wilcox founded the Wilcox Electric Company in 1931, and has served as president since its organization. The company was acquired in September 1965 by Melpar and continues in operation as a subsidiary of Melpar. In December 1965 Mr. Wilcox was elected president and chief executive officer of Melpar.

He was born in Kansas City, Missouri and attended the University of Kansas. He is a director of the Union National Bank of Kansas City and several other corporations in the Kansas City area.

MELPAR VISITORS

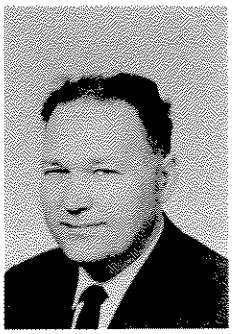
Twelve high-ranking military officers and civilians from the Industrial College of the Armed Forces were guests of the company recently for a combined orientation and tour.

During the three-hour visit they received a briefing on various research activities presently being pursued and were taken on a tour of the Falls Church facilities.

The College is presently studying techniques and aspects of advance research and exploratory concepts as part of its 10-month study program, and students have been visiting local companies engaged in research and development activities.

L. K. Eliason Astro Systems Center Manager

Mr. L. K. Eliason has been appointed Astro Systems Center Manager reporting to Dr. J. L. Pentecost, Associate Director of Research. As Manager of the Astro Systems Center, he is responsible for all aspects of the management of Melpar's Field Research efforts and the in-plant Astro Science Laboratories.



L. K. Eliason

Mr. Eliason came to Melpar in September 1957 from Remington-Rand Univac. After a brief period as a production engineer at the Arlington plant, he joined the research division. In the research division he served as a Sr. Physicist, Section Head and Lab Manager.

He received his B.A. degree from the University of Minnesota, and participates in the American Society of Testing Material activities. He is the author of several papers on high-temperature physical measurements.

MELPAR OPENS NEW OFFICE IN HUNTSVILLE

Melpar has opened an office in Huntsville, Alabama. It is headed by **Dr. L. L. Fontenot** who will administer the work Melpar will perform on two new contracts awarded by NASA's Marshall Spacecraft Flight Center.

Prior to joining Melpar, Dr. Fontenot served in Huntsville as chief of the technical staff for General Dynamics-Convair and was responsible for directing and performing research studies for NASA's aeroastrodynamics laboratory.

Chief responsibilities assigned to the company's new office include such technical areas as fluid, structural, and control dynamics; orbital and classical mechanics; statistics; acoustics; and unsteady aerodynamics.

Dr. Fontenot will also provide technical liaison to existing NASA contracts in which Melpar is involved at Marshall.

Miller Appoints Lopez and Curry Managers

R. E. Miller, Vice President for Engineering, has announced the appointment of two new managers. **Dr. T. F. Curry** is named Manager of the Applied Electronics Department, and **A. F. Lopez** is named Manager, Engineering Technical Staff.

Dr. Curry, as Manager of the Applied Electronics Department, is responsible for directing the activities of the Communications, Computer and Special Projects Laboratories. He joined Melpar in 1965 as an Engineering Associate in the Research Division, later serving as Head of Technical Staff for Engineering. Prior to joining Melpar, he was a consultant and part-time employee of Defense Systems Laboratory, Syracuse, New York, and a principal consultant to Curry, McLaughlin & Len, Inc. Dr. Curry received his BSEE from Georgia Institute of Technology, an MSEE from Pennsylvania State University and his Doctorate in Electrical Engineering from Carnegie Institute of Technology. He is a member of Tau Beta Pi, Eta Kappa Nu, Sigma Xi, IEEE, AAAS and is a registered Professional Engineer.

Dr. T. F. Curry

Mr. Lopez, Head of the Engineering Technical Staff, is responsible for the development of new business areas, the Engineering IR&D programs, maintainability and human factors engineering, and Engineering review of non-conforming materials.

A. F. Lopez

Technical consulting services are provided by Mr. Lopez's staff and a body of outside consultants is maintained to support the Engineering Departments and Laboratories. Mr. Lopez is also responsible for a Technical and Management Development Program. This program has provided seminars in contract law, computer programming and PERT.

Formerly a Laboratory Head with HRB-Singer, Mr. Lopez joined Melpar in 1966 as an Engineering Staff Associate. He received his B. S. degree from Northeastern University, did graduate work at the University of Maine, and has completed all course work toward his Doctorate in Electrical Engineering at Pennsylvania State University. He is a member of Tau Beta Pi, Eta Kappa Nu, IEEE, AAAS, FBIS (Fellow, British Interplanetary Society) and is a registered Professional Engineer. He is listed in American Men of Science and Who's Who in the East.

PATENT AWARDS PRESENTED . . . J. Pierce Chambers, Vice President and Acting General Manager, (center) presents patent awards to (left to right) John E. Riley, Robert W. Smith, Ferdinand J. Hemmer, William H. Fuhr, M. Hacskaylo and David F. Guinn.

Mr. Riley and Mr. Smith's invention is titled "Dew Collecting Method and Apparatus", Mr. Hemmer's patent was for "Thin Film Circuit Vacuum Processing Facility", Mr. Fuhr and Mr. Guinn invented a "Signal Recognition Device" and Mr. Hacskaylo's invention was titled, "Hydro-activated Galvanic Cell".

PHOTO BY SALMON

F. K. EGGLESTON MANAGER GSFC SYSTEMS LABORATORY

L. K. Eliason, Manager of the Astro Systems Center, has announced the appointment of **F. K. Eggleston** as Manager, Melpar Systems Laboratory at NASA Goddard Space Flight Center, responsible for the direct support of five branches. His organization includes: Electronics and Data Processing, Auxiliary Propulsion, Aerobee Simulation, Materials Research and Development and Design and Drafting.

F. K. Eggleston

Mr. Eggleston joined Melpar in 1961 as a Senior Physicist. He later served as a Principal Engineer and Branch Supervisor. Prior to joining Melpar, he had been Manager of Device Engineering with Ohio Semiconductors, Inc., Columbus, Ohio, and Research Engineer with Delco Radio Division of General Motors, Kokomo, Indiana.

Mr. Eggleston was educated at Ohio State University, Columbus, Ohio. He and his wife Jacqueline and their six children reside in Springfield.

Melpar Wins AFSC Contract

Melpar has been awarded a CPFF contract for $94,980 from the Air Force Systems Command, Wright-Patterson Air Force Base, Dayton, Ohio.

The contract calls for the development of techniques and programs for the simulation of V/STOL (vertical short take-off landing) aircraft, utilizing the real-time simulation research system at Wright-Patterson Air Force Base. In addition, Melpar will be responsible for making minor hardware modifications to the system and supplying special maintenance and analytical services.

The work will be done by the Simulation and Training Department under the management of **S. H. Cotton.**

MELPAR SUPPORTS PROJECT APOLLO

Melpar has been awarded a contract from NASA's Manned Spacecraft Center in Houston to furnish a mobile quarantine facility in support of Project Apollo. Total dollar amount of the award was $227,000 and calls for delivery of four units. The work will be conducted in the Military Systems Laboratory of the Astro Systems Center with **John W. Blossom** in charge.

The mobile facility will be utilized to biologically isolate, transport, and sustain lunar flight crews and support personnel from mission recovery to delivery at the Lunar Receiving Laboratory in Houston.

Need for such specialized equipment deals with the unknown aspects of lunar surface materials which will be collected and returned to earth by Apollo astronauts.

The mobile facility will be supplied by Airstream, Inc., of Jackson Center, Ohio, who is teaming with Melpar in support of the project. The units, fabricated of heat-treated aluminum, will measure approximately 35 feet in length, and will weigh less than 20,000 lbs. when fully manned.

Construction will assure an air and watertight unit and materials will be finished to withstand open sea environment.

Melpar will also furnish required and necessary units, components, and systems needed to support the overall quarantine operations within the mobile units. They will be pallet-mounted for air transportation and will be equipped with a single hoisting sling for placement aboard ship or flat bed trailer.

A Bouquet To The Mail Room

"Gogser, Gouser, Gueser, Goesar, Goezer, Gorser, Gotser, Goesen, Geoser, Gosener, and Goser." Believe it or not, this is the way mail has been addressed to Principal Engineer Joe Goeser, but every piece was delivered to him. Joe hands a bouquet to Melpar's mailroom for upholding the old adage, "the mail must go through."

W. J. Watson Appointed Manager Research Administration Staff

William J. Watson has been appointed Manager of the Research Administrative Staff reporting to Dr. J. L. Pentecost, Associate Director of Research, responsible for administrative functions within the research division.

W. J. WATSON

Mr. Watson joined Melpar in 1958 as an Engineering Aid in the research division. He later served as Engineering Assistant, Supervisor of Programs and Proposals and Supervisor of the Administrative Service Branch. He received his B.A. Degree from Brown University and has completed graduate courses in Business Administration at American University and is now working towards his Masters degree.

Bill, his wife Georgia, and their two children, Sandy 10 and Stephen 7, live in Vienna. A licensed pilot, he pursues flying as a hobby.

INDIAN INVASION OF MELPAR . . . "Chief" Paul Pegelow and "Squaw" Jim Roemer sign the visitor's register while receptionist Phyllis Christ and Senior Buyer Tom Tracy look on. The two vendors from Powell Electronics were participating in a sales promotion, and were "On the Warpath" for more business.

PHOTO BY GLITTENBURG

Earnings Improvement Program Exceeds 60% of Our 1967 Goal

Total dollar savings resulting from Melpar's Earnings Improvement Program have already exceeded 60% of our 1967 goal of $750,000. A substantial share of these savings is attributable to employee participation through the submission of cost reduction suggestions. If you have an idea which you feel would reduce costs or improve operating conditions, submit it now on a VIP Form (Form GO-340) and become eligible for the VIP Honor Roll.

J. P. Chambers poses with VIP Honor Roll employees for the month of May. The employees include (from left to right): D. F. Miller (Research), K. Cooper (Personnel), W. F. Cowan (Operations), C. C. Fritsche (Marketing), N. T. Jeffries (Engineering), L.E. Shaw (Personnel), J. P. Chambers, and C. R. Parker (Engineering). Other members of the Honor Roll absent from the picture are: F. L. Hickisch (Reliability), L. D. Shubin (Research), M. G. Hunter (Personnel) and A. S. Doan (Research).

WABCO Issues Fact Book

A new 28 page brochure that describes the operations of Westinghouse Air Brake Company (WABCO), its eight divisions and its domestic and overseas markets, has been published by **WABCO.**

Called the "**WABCO** Fact Book", the reference source lists the company's board of directors, officers and top management and details the company's history and six markets: railroad and mass transit; construction; mining; general industry; defense and aerospace; and aviation. The publication is specifically designed as a reference tool for customers, prospects, suppliers, members of the financial community, news media and employees.

The Fact Book contains information about **WABCO's** domestic and international operations, including its eight divisions and subsidiaries in the United States; the **WABCO** Original European Group (three subsidiaries in Germany, France and Italy); and overseas subsidiaries of divisions in the United States.

A summary of **WABCO's** financial performance in 1965 and 1966 is included along with a Pocket Directory of products and services, addresses and telephone numbers of **WABCO's** major domestic operations.

Copies are available from Mr. Jack Whiteley, Manager of Marketing Communications, Falls Church.

GOING UP!

May and June brought promotions to the following Melpar employees: New Branch Supervisors include Exie M. Henderson, R. L. Dubell, J. L. Dodd, W. V. Goodell, J. C. McCormack, Barbara Ingram, F. V. Mink, H. R. Reuter and T. J. Terry.

Other promotions included O. Alderman to Senior Research Test Engineer, W. A. Campbell to Senior Research Assistant, G. Machen to Junior Electrical Engineer, Linda Stewart to Secretary and John Cicotello to Design Engineer.

R. C. Wright advanced to Principal Engineer, R. G. Smith to Buyer, P. E. Kennedy to Subcontract Buyer, D. M. Wright to Field Buyer Expediter, W. L. Ahrens to Senior Design Engineer, Mable Lee Bradley to Executive Secretary, R. W. Stowe to Lab Manager and J. T. Chandler to Senior Customer Relations Representative. Congratulations to all.

WABCO RE-NAMES TWO SUBSIDIARIES

Westinghouse Air Brake Company (**WABCO**) has announced the change of names of two of its subsidiaries. The LeRoi Division located in Sidney, Ohio, has been changed to the Pneumatic Equipment Division, and the Industrial Products Division of Lexington, Kentucky, is now the Fluid Power Division.

This makes five **WABCO** divisions with name changes this year as part of a continuing program to more closely relate **WABCO** with its markets.

The Fluid Power Division markets pneumatic and hydraulic control and actuating devices for the machinery-manufacturing industry, off-highway equipment, petroleum drilling rigs; marine applications; and general industry.

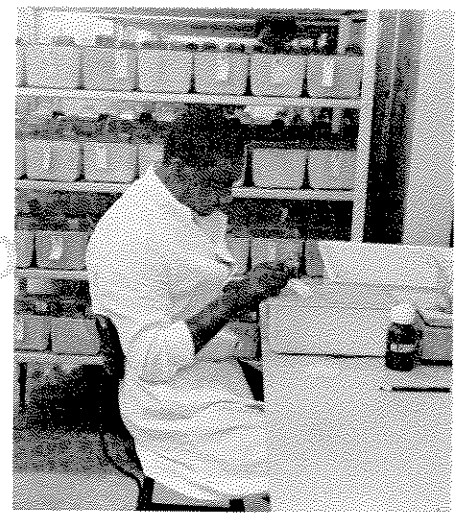
The Pneumatic Equipment Division markets portable, stationary and unit air compressors; rock drills and pneumatic tools for the construction, mining and general industries.

Lawrence E. Walkley, **WABCO** president, said that the changes more clearly identify the divisions with the major markets they serve and emphasizes principal product lines.

Mouse Tumor Virus Contract

Under the direction of **Dr. John E. Verna,** the Cell Biology and Viral Oncology Branch of the Life Sciences Laboratory is conducting an extensive research project for the National Institutes of Health, Dept. of Health, Education and Welfare.

The mouse mammary tumor virus (MTV) contract is primarily a service type contract established by NIH for investigators throughout the country. These investigators submit specimens such as extract of mammary tumors, milk or blood from both human and experimental animals suspected of containing the mammary cancer virus. It is Melpar's task to determine the relative concentration of virus present in the specimens.



Ken King, Jr. Research Aid, prepares to implant laboratory mouse with hormone pellet.

Melpar is the only center in the U. S. for MTV bioassay which offers an essential service to investigators who have neither the time nor facilities to carry out such a costly program. In addition to providing this MTV service, Melpar is engaged in research dealing with improving bioassay methodology and learning more about the nature of the viral agent.

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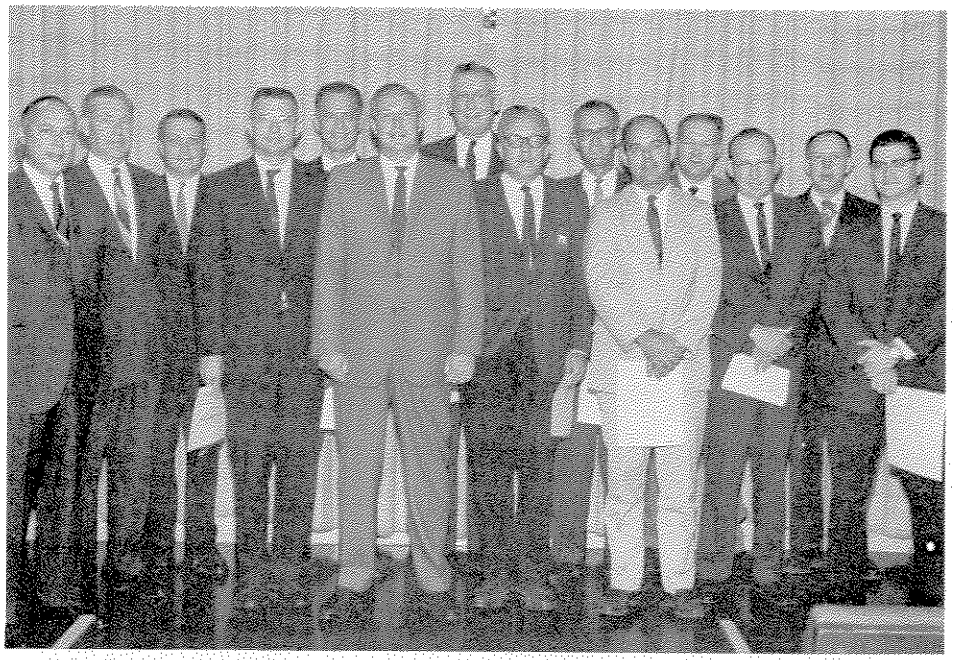
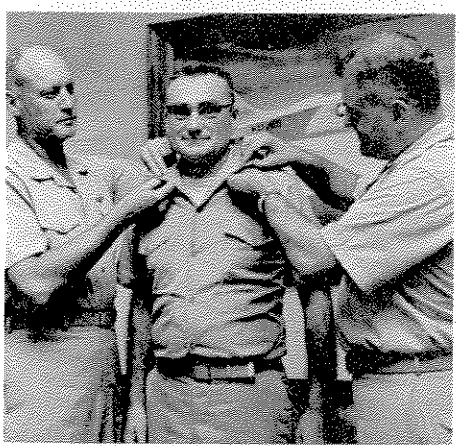


SUPERVISORS COMPLETE MANAGEMENT TRAINING COURSE . . . On May 25th, sixteen Melpar supervisors completed an eight-week course, "Developing Communication Skills" and were awarded certificates by J. P. Chambers, Vice President and Acting General Manager. The class included (left to right) W. Cradlin, J. Symanoskie, T. Alnutt, J. Pentecost, I. Apter, (Mr. Chambers), R. Moneyhon, R. Jones, W. Dupree, M. Morgan, L. Eliason, J. Lazar, J. Fossum and N. Ishman. T. Parks, O. Inge and A. Maestri were absent when the picture was taken.

The course consisted of two parts—a weekly one-half hour TV presentation by Malcolm E. Shaw, Management Consultant, followed by a one-hour group discussion and workshop. This was the fifth TV management training course in which Melpar has participated. The program is sponsored by the Virginia State Chamber of Commerce and conducted by Melpar's Personnel Directorate.

PHOTO BY SALMON



LT. COL. JOSEPH A. SWARTZ, JR., USMCR Commanding Officer of Marine Base Squadron-43, NAS, Willow Grove, Pa., stands proudly as he is pinned with the silver oak leaves of his rank, by Col. R. R. Peebles, Commanding Officer of the Marine Air Reserve Training Detachment and Maj. Ralph DeLucia, Jr., Nxecutive Officer of MABS-43.

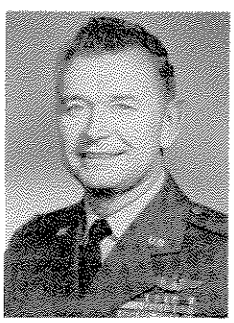
LT. COL. Swartz is preparing for his first Annual Training Duty as Commanding Officer of a Marine Air Base Squadron. During his career he has served on active duty and as an active reservist in many capacities including that of an 81 mm mortarman, air controller, fighter pilot, avionics officer, aircraft maintenance officer and Group Staff Officer.

LT. COL. Swartz is a Project Engineer on the Engineering Technical Staff.

T. L. Wood Now Colonel In USAF Reserves

T. L. Wood, Personnel Director, received a promotion to the rank of Colonel in the USAF Ready Reserves on June 1, 1967.

He accepted a reserve commission after resigning a regular commission to join Melpar in August 1955.



T. L. Wood

Since 1958 he has held a mobilization assignment as a Research Management Staff Officer with the Directorate of Research and Technology, Headquarters USAF.

During WWII he completed 67 fighter missions and received the Distinguished Flying Cross for destroying one of the first jets used by the German Air Force, an ME-262 twin-jet fighter.

Melpar Opens Weather Unit

Melpar has opened a 24-hour weather information center to serve business firms whose operations are governed in large measure by weather conditions.

Construction and building firms, which are especially vulnerable to vagaries of weather, are among the first clients of the new center, but other types of businesses are expected to find the service useful.

The unit is staffed by a team of professional forecasting and consulting meteorologists with more than 50 years of combined experience. They are supported by weather, communications, and electronic technicians.

According to **John Morton,** Manager of the Meteorological Research Laboratory, the center is equipped with the latest teletypewriter and facsimile equipment and is set up to provide continuous readings of current rainfall, wind, temperature, humidity and snow accumulation.

Company officials have been quick to point out that their new weather facility is in no way intended to compete with the U. S. Weather Bureau, but will function as a necessary adjunct to furnish its area clients with weather information and forecasts of a very local nature.

"We consider our operation as a private service that starts where the Weather Bureau stops," Morton said. "We can provide specific forecasts for a specific time and place. The private forecaster knows the operations for which he is forecasting and can inform the user as changes take place in the weather outlook."

Morton notes that in the opinion of the Weather Bureau, it has been estimated that the construction industry alone could save as much as $1 billion annually by taking advantage of currently available weather information.

POWER LAWN MOWER TIPS

Open toe shoes are cool, but if you wear them while mowing the lawn, you may get a pain in the hallux!

The hallux is the big toe, and it and the four smaller toes are the most frequently injured parts in power lawn mower accidents.

Before you begin mowing, clear the area of rocks, pieces of wood, wire, and bones.

Keep the cutting path and discharge path clear of all persons and animals.

Never leave a running mower unattended and never allow children to operate a power mower.

Do not reach under the deck, chain guards or belt guards of the mower until it is stopped and the power source disconnected or the spark plug removed.

Never pull the mower back toward you on a down grade.

One last reminder – your Safety Office can purchase safety toe shoes at a discount price for you if you really want to protect that hallux.

ON THE DAIS . . .

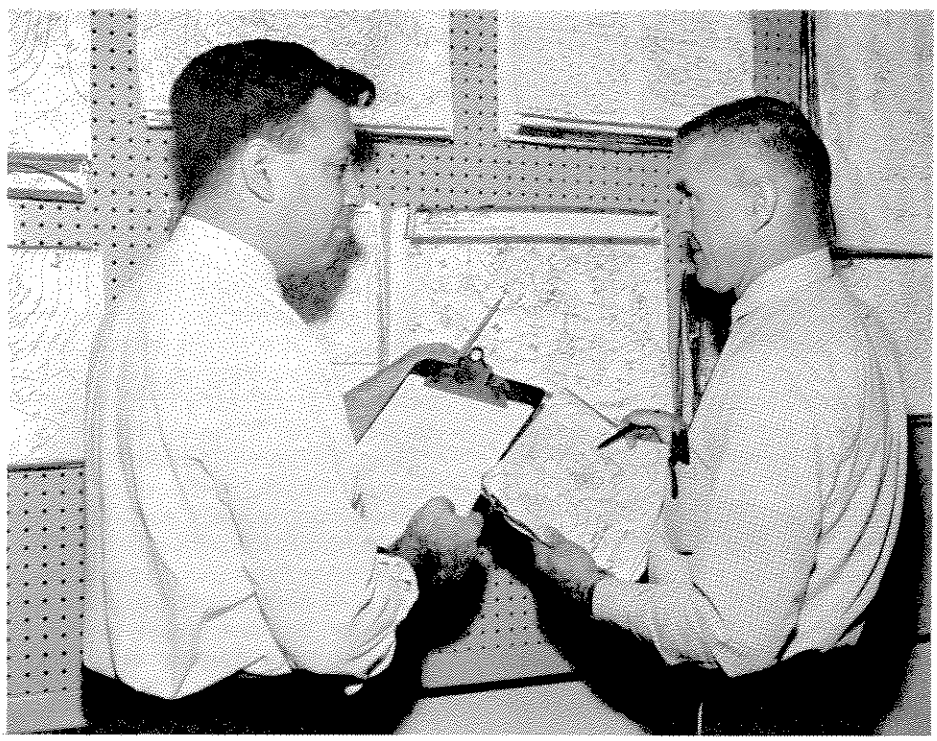
Henry Hahn, Manager of the Materials Laboratory of the Chemistry and Life Sciences Research Center was a recent speaker at the American Society of Mechanical Engineers meeting at the Americana Hotel in New York City.

The paper, titled "Progress in Preparation and Working of Whisker-Reinforced Metal Composites" was written by Mr. Hahn, **A. Divecha** and **P. Lare.** Mr. Divecha and Mr. Lare are Senior Metallurgists in the Materials Laboratory. The paper has been printed and copies are available from the American Society of Mechanical Engineers.

* * * *

Robert McMillan, Senior Contract Administrator, was a guest speaker at the American University's Institute on Management Technology and the Optimization of Research and Development, held April 24–27 at the Twin Bridges Marriott Motor Hotel. Mr. McMillan's speech was entitled, "Regarding Contractual Arrangements".

He later received a letter of commendation from Colonel Charles C. Mack, Chief of the R & D Division of the Defense Communications Agency of the USAF. Colonel Mack said: "In my opinion you made a significant contribution to the overall program and provided an insight into the problems and solutions which exist in this field".



Meteorologists Bob Raguso, left, and Ken Benson compare notes as they ready a new forecast picture.