

melpar-a-graph

MELPAR, INC.

A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE COMPANY

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Melpar Sales Exceed \$49 Million in 1967

Jay V. Wilcox, President, has announced that 1967 sales totaled \$49,453,000 up from \$46,241,000 reported for 1966.

Earnings were \$72,000 which compares to a loss of \$1,818,000 recorded in 1966.

Mr. Wilcox noted that the Company's ability to complete the year on a profitable basis stemmed in large part from a reduction in plant operating expenses, increased volume and the elimination of certain loss contracts.

A re-directing of corporate efforts toward new markets and general sales increases in established product lines also helped to produce an improved 12 months, he said.

Melpar started 1968 with a record backlog position. Prospects for continued growth appear good in 1968 for the Company's aircraft navigation and communication equipment, Mr. Wilcox noted. He also indicated an increased level of work in such areas as chemical and life science research, high-speed ground transportation and electronics.

Melpar Men of the Year, Connelly, Hickisch and Lindgren



J. Pierce Chambers, Vice President and General Manager (second from left) congratulates the Annual Award winners. Left to right, Frank L. Hickisch, Mr. Chambers, Edward M. Connelly and Paul W. Lindgren. (Continued on Page 2)

WABCO/AMERICAN STANDARD ANNOUNCE MERGER

The boards of directors of Westinghouse Air Brake Company (WABCO) and American Standard Inc. have approved an agreement for the merger of WABCO with American Standard, according to an announcement by A. King McCord, chairman of WABCO, and W. D. Eberle, president of American Standard.

The merger, which is subject to the approval of stockholders of both companies, calls for American Standard to issue one share of a new \$4.75 convertible preference stock for each two WABCO common shares. The exchange of stock will be tax free. American Standard will apply for listing of the new preference stock on the New York Stock Exchange.

Each share of the new American Standard preference stock is con-

vertible into two and two-thirds shares of American Standard common stock and votes equally with the common. The new preference stock is callable only after five years, initially at \$105 per share and at declining amounts down to \$100 thereafter.

WABCO had 4,505,892 common shares outstanding at the end of 1967.

Both companies, by action of their directors, have set May 16, 1968 as the date for meetings of the stockholders to vote on the merger. WABCO's annual meeting will be held on the same day.

WABCO will be represented on the American Standard board by four directors. Present WABCO management will continue and WABCO will operate as a separate unit of American Standard.

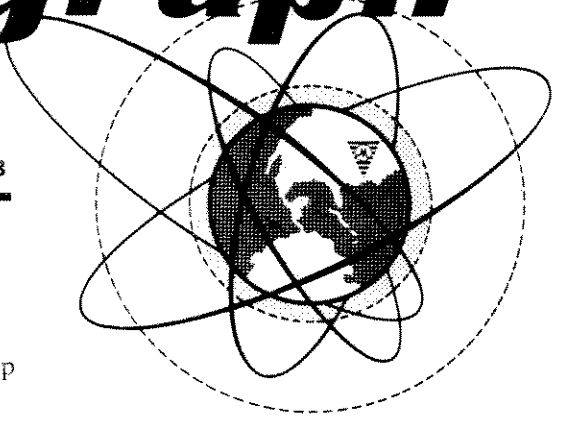
WABCO Wins Decision

A Common Pleas Court Jury has denied Crane Company access to Westinghouse Air Brake Company's (WABCO) list of shareholders.

The verdict substantiates WABCO's contention that Crane Company requested the list only to be in position to force a merger of the two companies which is not in the best interest of WABCO's shareholders.

A. King McCord, chairman of WABCO, said: "During the trial, WABCO's attorneys and witnesses emphasized that the reasons advanced by Crane Company did not amount to the reasonable purpose required by Pennsylvania Law to support a shareholder's demand for access to the stock register."

The jury agreed with WABCO and denied the list to Crane Company.



MELPAR MEN OF THE YEAR *(Continued from Page 1)*

Melpar's fourth Annual Awards Dinner was held on February 21st at the Sheraton Motor Inn in Alexandria. The winners were: **Edward M. Connelly**, Invention of the Year, **Frank L. Hickisch**, Value Improvement of the Year and **Paul W. Lindgren**, Publication of the Year. Each winner received a personal trophy and his engraved name plate has been added to the Annual Awards plaque on display in the main lobby of the Falls Church plant.

The winners were selected from the following candidates named by the nominating committees:

INVENTION OF THE YEAR

Committee: Austin G. Roe, Chairman, Dr. Joseph L. Pentecost, Albert F. Lopez, H. Hurvitz (outside patent counsel) and Barbara H. Feehan.

Candidates:

Edward M. Connelly

Trainable Logical Element Having Signal Path Solidification Capabilities.

Amarnath P. Divecha, Paul J. Lare and Henry Hahn

Preparation of Fiber-Reinforced Metal Composites by Compaction in Liquid Phase.

Richard H. Hronik and James Wallen, Jr.

Track Profile and Gauge Measuring System.

Neal H. Ishman

Wide-Band Voltage-Controlled Oscillator.

William B. Noe

Solid Particulate Metering System.

PUBLICATION OF THE YEAR

Committee: Dr. Thomas F. Curry, Chairman, William H. Fuhr, Frederick J. Hurley, William T. Cradlin, Kenneth C. Streeter.

Candidates:

Edward M. Connelly

"Vehicle Control Experiments with Large Artificial Nerve Network (Lannet)"

Dr. Nicholas Fuschillo and Roy Gibson

"Germanium-Silicon, Lead Telluride, and Bismuth Telluride Alloy Solar Thermoelectric Generators for Venus and Mercury Probes"

Henry Hahn, Paul J. Lare and Amarnath Divecha

"Progress in Preparation and Working of Whisker-Reinforced Metal Composites"

Paul W. Lindgren

"Project Histep"



Edward M. Connelly (left) accepts his award from Austin G. Roe, Chairman of the Invention of the Year Committee. His invention was entitled, "Trainable Logical Element Having Signal Path Solidification Capabilities".



Paul W. Lindgren (right) receives congratulations for the Publication of the Year from William R. Anderson representing Dr. T. F. Curry, Chairman of the committee. His article, "Project Histep", was published in the American Railway Engineering Association Bulletin, September-October 1967 issue.



First place in the Value Improvement of the Year competition was awarded to Frank L. Hickisch (right) by Thomas D. Kelly, Chairman of the Committee. His cost reduction suggestion, "Standardization and Inspection of Purchased Parts and Utilization of Surplus Material" saved \$8,423. This marked the fourth year in Melpar's award program which was initiated in 1964. Total savings from the cost reduction program have totalled \$6,618,305 since 1964.

Photos by Sakamoto

(Continued on Page 3)

Paine Named Manager Plant Engineering



R. Eugene Paine

Vice President and General Manager J. Pierce Chambers has announced the appointment of **R. Eugene Paine** as Manager

of Plant Engineering, responsible for all functions relating to design, installation and maintenance of the Company facilities.

Mr. Paine joined Melpar in 1963 as a Senior Industrial Engineer. In 1965 he became Superintendent of Maintenance.

Prior to joining Melpar, Gene was a Senior Maintenance Engineer with Pittsburgh Plate Glass Company in New Martinsville, W. Va. He served in World War II as a Captain in the Air Force.

Educated at Ohio University, Athens, Ohio, he received a BS degree in Civil Engineering.

Gene, his wife and daughter reside in Fairfax.

New Contracts for January Exceed \$2 Million

S. L. Dance, Vice President for Marketing, has announced that Melpar received in January new jobs, change orders and amendments in excess of \$2 million.

Contracts were received, among others, from Autonetics, Telecommunications and Navigation Aids System/Chile, Wilcox, WABCO-CED, Patrick AFB, Kelly AFB, and Fort Belvoir, USNTDC, NIH, Fort Meade, NASA/Wallops, Sperry and Martin.

Melpar Men of The Year

(Continued from Page 2)

Wendell Spence

"The UV Absorption Edge of Tin Oxide Thin Films"

VALUE IMPROVEMENT OF THE YEAR

Committee: Thomas D. Kelly, Chairman, Alfred M. Ross, Donald E. Lewis

Candidates:

Freida K. Bernhard

Inspection of Electrical Parts Mounted on Reels

Know Your Benefits ...

Now that spring is approaching, many of you will be planning vacations soon. Let your supervisor know as soon as you can decide on the dates you wish to take your vacation.

In 1967, Melpar paid \$675,378.47 in vacation benefits to employees. The most popular vacation months were:

JUNE	\$60,555.84
JULY	\$94,341.84
AUGUST	\$95,154.21

Many of you will be celebrating a fifth anniversary in 1968. Remember this entitles you to an extra day of vacation, and you will continue to add an extra day each year through your ninth year. After that you will add another vacation day every two years until you reach your 19th anniversary.

Melpar Sponsors

Boy Scouts

Melpar is sponsoring three Boy Scout Science Explorer posts consisting of 33 students from three local Fairfax County high schools.

Organized in February through the efforts of Melpar advisors **Al Lopez**, **Joe Pentecost** and **T. L. Wood**, the young explorers meet every other Tuesday night in the Falls Church main conference room to hear briefings and watch demonstrations conducted by technical representatives of Melpar's research and engineering laboratories.

Present plans are to conduct these meetings through July and then allow the students to select projects to actually build working models of scientific equipments.

The Boy Scout Executive for these programs is Mr. Robert W. Hopkinson, National Capital Area Council.

Stephen E. Bush

Improved Method for Cleaning of Components in Assembly

Frank L. Hickisch

Standardization and Inspection of Purchased Parts and Utilization of Surplus Material

Fred L. Rogusky

Use of Preprinted Postcards for Replying to No-Bid Proposals

Joseph V. Symanoskie

Standardization of Letters and Numbers Used for Marking.

GOING UP!

The following employees will remember January and February 1968 for the promotions it brought them:

M. J. Sugar to Research Assistant,

E. A. Rose to Principal Engineer,

R. W. Lenert and **L. D. Hochhalter**

to Project Engineers.

E. L. Sanford moved to Senior Research Assistant, **D. F. Rubach** to Programmer, **J. M. Shatzer** to Senior Sub-contract Buyer, **W. L. Woodruff** to Principal Engineer, **A. R. Chouinard** and **P. J. McConnell** to Branch Supervisors, and **G. N. Drummond** to Senior Meteorologist.

Looking for a Tax Refund?

If you live in New Jersey, Pennsylvania, Maryland, Delaware, Virginia or District of Columbia—

File your return by **APRIL 5** and help the IRS help you receive your refund in **5 WEEKS** - if you make sure your return is correct.

About 70% of all errors on tax returns are mistakes in addition and subtraction or incorrect social security numbers.

For a refund mail your return directly to the Internal Revenue Service, Philadelphia, Pa. 19155.

**IT'S NOT TOO LATE
TO FILE EARLY**



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Twenty Mark Melpar Service Milestones

FIFTEEN YEARS



H. J. Bailey



R. J. Bottenfield



C. L. Bowles



R. C. Little



W. Mahon



C. T. McIntosh



R. J. Owens



L. E. Sager



C. Sauchak



L. A. Schmidt

TEN YEARS



R. Buser



R. E. Edwards



J. J. Guiliani



R. F. Gross



A. J. Lunsford



S. Y. Lim



H. J. McNab



D. M. Olverson



W. D. Piggott



M. L. Weetman

Pictured here are the Melpar employees who observed their ten and fifteen year anniversaries and were

honor guests at the Pin Luncheon held in the cafeteria on February 21st.

ON THE DAIS...

Associate Director of Research, Dr. **Joseph L. Pentecost** was a recent speaker at White Oak Junior High School in Silver Spring, Maryland, where he addressed the seventh, eighth and ninth grade Science Students, and at Falls Church High School where he spoke to the Science Club.

His speech, entitled "High Temperature Reactions" was concerned with high temperature measurement techniques, reactions and applications. He discussed the common high temperature materials familiar to the students and the reactions that occur during their production.

Melpar's **Dr. T. P. Meloy** received high praise from Dr. F. F. Aplan, 1967 Particulate Matter Conference chairman, in a letter to Dr. Eric A. Walker,

Melpar Board Chairman, for an address made at the conference held in Milwaukee.

In his letter, Dr. Aplan stated: "Dr. Meloy's paper on 'The Efficient and Effective Separation of Particulate Matter' was delivered in his usual vigorous style and was received by the conferees with interest and enthusiasm. He has made an intriguing thermodynamic analysis of particle separation systems and it is for reasons such as this that he has developed an outstanding professional reputation in the field of comminution and particle technology.

"This year's conference on Fine and Ultra-Fine Particles was concerned with the creation, characterization, separation and agglomeration of particles. The success of the Conference was due in no small measure to Dr. Meloy's fine presentation. He certainly deserves a 'well done!'"

Melpar Wins FWPCA Contract

Melpar will construct a flexible underwater storage tank in the Chop-tank River at Cambridge, Maryland, under terms of a \$410,000 contract awarded by the Department of the Interior.

Work will be performed by the Environmental Sciences Group of the Instrumentation and Chemistry Laboratory under the direction of **Jack Chaney**. The Laboratory is currently conducting field demonstration projects on air and water pollution programs for the Commonwealths of Kentucky and Pennsylvania.

The award was received from the Federal Water Pollution Control Administration (FWPCA) and represents a continuing effort on the part of Melpar in the area of federal and state water and air pollutant programs.

Under the contract Melpar will design, construct and operate a pilot plant located on the river bottom several hundred feet from the Maryland shore. Totally submerged, the plant will in no way hinder navigation on the river.

The ultimate objective of the program is to demonstrate that underwater storage facilities of this type can serve as an economic and feasible means of reducing sewage discharge into lakes and rivers from combined storm water and sewage overflows.

Application of this new storage technique under suitable site conditions can add another tool to protect streams presently unfit for recreational use.

The FWPCA program differs from previous projects since it does not require use of expensive land in built-up areas nor disrupt communities during excavation and construction.

No Change in Pension Contributions Formula

Employee pension contributions will remain at 1½% of the first \$6600 of salary and 3% in excess of \$6600. They will no longer conform to the new Social Security base of \$7800.

This action will allow your pension plan to grow at a normal rate and not be diluted by present and future increases in the base of the Social Security program.



EDISON HIGH STUDENTS WITH TEACHER, RICHARD BAUSCH



WOODSON HIGH STUDENTS WITH TEACHER, E. O. ADKINS



GEORGE C. MARSHALL HIGH STUDENTS WITH TEACHER, J. E. DEAN

STUDENTS TOUR MELPAR . . . Vocational Electronics students from three area high schools were recent visitors to Melpar. The tour was conducted by A. F. Lopez, Manager, Technical Staff, who started activities with an address in the main conference room before touring various plant operations. Bill Moore explained the machine shop and assembly area, Bill Stump demonstrated the A-7 simulator and Frank Boyko conducted them through the drafting sections. *Photos by Sakamoto*

39 Achieve Perfect Attendance Record

A review of 1967 attendance records reveals that 39 Melpar employees achieved perfect attendance records, with **no latenesses or absences** for the year. Six of these employees have maintained their place on the list for the second year.

Research and Engineering tied with ten employees each on the honor list. Plant Engineering had a total of six employees of which three achieved a perfect record for the second year in a row.

We are proud to recognize the following 100 percenters:

TWO YEAR RECORDS:

Plant Engineering

J. R. Barrick
H. C. Watkins
C. O. Renalds

Research

F. D. League

Manufacturing

C. Schmitt

Marketing

J. T. Chandler

ONE YEAR RECORDS:

Material

C. J. Hammond
W. D. Hixson
T. J. Tracy
J. J. Adams
A. A. Couvillon

Research

C. W. McCarty
D. Gudzent
R. Abercrombie
K. H. Andersen
R. H. Appel
F. J. Hurley
O. Alderman
R. Stowe
V. DeCarlo

Plant Engineering

R. V. Overton
G. H. Higday
H. M. McClarren
D. J. Faith
Finance
C. T. Ambrose

Engineering

M. Hanson
P. Hartman
S. A. Bradeen
H. L. Bynum
C. C. Cleaves
R. W. Freeman
J. J. Fugate
M. H. Hilbrecht
C. E. Penland
W. E. Thompson

Manufacturing

J. C. Knox
C. S. Hess

J. Schwier
C. H. Hill

Know Your Company . . . This is the second in a series of articles that appear in the Melpar-a-graph as a matter of interest to Melpar employees, explaining the functions of our various laboratories and departments.

Publications Department

Preparation and publication of reports, tech manuals and parts catalogs may sound dull and routine but the end products of our Publications Department sparkle with color, art and journalistic style.

Capabilities within this department would surprise most employees who have not seen the operation at first hand.

Turning out a finished publication of first rate professional caliber involves close and continuous cooperation among technical writers and editors, artists and illustrators, and publications production specialists.

Also vital to the Department's mission are the provisioning specialists who generate equipment - repair parts and spares provisioning lists and the all-important catalogs that comply with military and commercial parts specs.

Supporting these personnel are other highly skilled specialists who operate in-house facilities ranging from a complete photo lab to final copy preparation and the ultimate duplication processes.

Widespread recognition has been gained for the design and fabrication of displays for the IEEE, WESCON, and similar shows. Detailed working models of proposed equipment have been built and some have been tested for feasibility and proof of principle.

Far from being dull this is a "go" department proud of its people and the creations which represent Melpar to its military and commercial customers around the world.

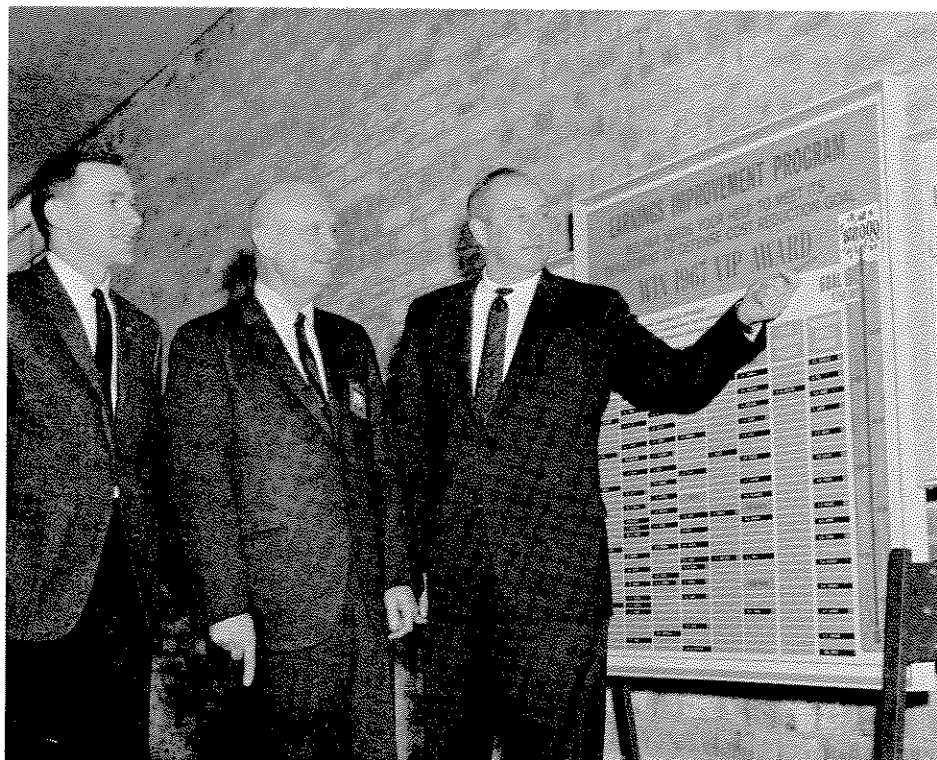
The Publications Department Manager is **William T. Cradlin**. Mr. Cradlin reports to Mr. R. E. Miller, Vice President for Engineering.

WABCO Declares Dividend

The Board of Directors of Westinghouse Air Brake Company (WABCO) announced that the regular quarterly dividend of forty-five cents per share has been declared payable March 15, 1968, to shareholders of record at the close of business February 21st.

This marks the **92nd consecutive year** that WABCO has rewarded stockholders through a dividend payment.

DOD Congratulates Melpar for Exceeding 1967 Earnings Improvement Program Goal



Total dollar savings have been computed for our 1967 Earnings Improvement Program with results exceeding our \$750,000 goal by more than 9%. A. J. Dzura, Melpar's Department of Defense Cost Reduction Monitor commends Melpar for these results. Pictured here are A. M. Ross, Melpar's Cost Reduction Administrator, Mr. Dzura and J. P. Chambers, Vice President and General Manager.

Savings contributed by each organization are as follows:

SAVINGS

Organization	Suggestions	Reports	Total
Personnel	\$ 29,051	\$ 90,134	\$119,185
Research	5,842	102,048	107,890
Material	18,926	57,804	76,730
Procurement Savings Program		263,132	263,132
Manufacturing	69,973	5,131	75,104
Accounting	7,497	62,619	70,116
Reliability & Quality Assurance	17,137	35,127	52,264
Plant Engineering	1,006	25,757	26,763
Engineering	9,247	3,245	12,492
Marketing	11,872	126	11,998
Special Products	-	2,411	2,411
TOTAL	\$170,551	\$647,534	\$818,085

For 1968, representatives for each of the above Organizations, with their Organizational Head, have established new cost reduction goals. These goals have been consolidated to establish a total corporate goal of \$732,800. These Organizational Goals are as follows:

Accounting	\$60,000
Field Research Center	27,000
Engineering	67,000
Management Information Services	70,000
Marketing	36,500
Material	224,500
Personnel	70,880
Plant Engineering	30,000
Reliability & Quality Assurance	55,000
Research	82,000
Special Products	10,000

More Melpar Patents Awarded

The United States Patent Office has awarded Melpar three new patents. Dr. Wayne R. Masters was the inventor of two patents, the first, "Traveling Wave Antenna Having Radiator Elements With Doubly Periodic Spacing."

This invention, an improved antenna, has characteristics particularly appropriate for the transmission of television signals since it allows audio and video signals to be fed simultaneously without the need for a diplexer.

The second Master's invention was entitled "Multi-Channel Slot Antenna For Ultra High Frequencies."

The antenna array of this invention will serve quite a number of ultra high frequency television or radio stations simultaneously on an efficient, economical and practical basis. All of the stations will be given good radiation patterns which are substantially the same, so that equal treatment is accorded to the stations. The antenna array may be erected at the highest and best available location, to the mutual benefit of all of the television stations because of the ease of its construction and structural soundness.

The third patent, "Rapid Lipid Extraction," concerns a method for the extraction of lipids from biological materials with simultaneous transesterification of the lipids to volatile esters, and to the analysis of volatile esters by means of gas chromatography. Inventors were Kenneth Abel, Dr. Hannibal S. deSchmertzing and John I. Peterson.

Melpar Employees Find Stolen Car

Discovering a stolen auto during a luncheon stroll doesn't happen often but it did recently to **Wesley Paulson** and **Michael Taylor**, Melpar Engineers.

The dynamic duo was walking across our north parking lot, returning from lunch on February 7th, when they noticed a '67 Volkswagon in the woods off the northwest corner of the parking lot. Closer examination revealed that the engine had been removed and various other parts scattered about.

They promptly notified the Fairfax County Police, who confirmed that the numbers on the car tags corresponded with those of an auto reported stolen the night before.