PHILCO NEWS

IN THIS ISSUE

SUMMER
1961

Donald G. Fink, vice president-Research

The Research Division has the challenging task of discovering and assessing new technical opportunities for the products and services of the corporation. To meet this responsibility our Research staff must generate new science and technology on its own account and it must also be critically aware of discoveries and inventions made outside Philco.

Looking back, Philco researchers can take pride in such projects as the electrochemically produced transistor, special microwave and infrared components and electronic techniques for data recognition—all of which have provided the base for newly established businesses in the operating divisions—plus many other projects having a real impact on established products, from the electrostatic speaker to high resolution radar. Looking forward we see an accelerated pace of accomplishments and much hard work in sorting out the paydirt from the glitter.

Research is not an end in itself. It cannot prosper without close contact with the engineers and marketing people who will improve, design, produce and sell the products that new science makes possible. At Blue Bell we in Research are closer to the whole Philco family than ever before. The welcome mat is on the doorstep.

Donald G. Fink

Vice President-Research

OUR COVER THIS MONTH

Shows the front entrance to the Philco Corporation Research Center at Blue Bell. The center is the culmination of several years of planning and effort under the direction of President James M. Skinner, Jr., Dr. L. J. Woods, then vice president for Research and Engineering and since retired, and D. B. Smith, vice president-Technical Affairs, who guided the initial phases of the project. The building was completed under the supervision of Donald G. Fink, vice president-Research.

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THE MISSION OF THE RESEARCH DIVISION

"There are many facets to the Philco Corporation," declared President James M. Skinner, Jr., at the formal opening of the new Philco Research Center at Blue Bell. "Our products range widely from familiar household appliances to complex military systems. TV and radio receivers, phonographs, refrigerators and laundry equipment, ranges and air conditioners—are joined by highly sophisticated transistorized computers, large communication and control systems, electronic fuzes and guidance systems for rockets and missiles—in a wide spectrum of technical accomplishment. Other products include various kinds of radar and reconnaissance devices, gigantic towering antennas which scan the sky, transmitting and receiving to and from satellites. Philco units operate at the bottommost parts of the ocean to the reaches of outer space. Many of these products were not dreamed of ten years ago. *All* of them, in one way or another, depend upon science and technology for their creation and existence."

Mr. Skinner said further: "To produce these many products, to bring them to the useful service of mankind, requires the skills and talents of many different kinds of people, some to design, some to manufacture, some to sell and others to handle the many financial transactions necessary in the process. Our company is subdivided into many different groups to accomplish these various purposes.

"In this total process the Research Division has two major missions. The first is to provide a company of scientists who will continue to advance the frontiers of our scientific knowledge in the areas of our competence, and in so doing finding new knowledge from which new and better products can be developed."

Mr. Skinner continued "Our new Research Center is designed to attract the ablest minds and to provide the facilities in which such minds can function best. We must always keep before us the knowledge that it is not the building or its modern comforts that count, but the brain power of the people in it. In their hands we have entrusted the future of our company."

PHILCO RESEARCH ACHIEVES ELECTRONIC AMPLIFICATION WITH THIN METALLIC FILMS

A totally new means for achieving electronic amplification based on the technology of extremely thin films has been demonstrated by scientists at the Company's Research Center. Experimental devices have been successfully tested leading the way to a family of active electronic components which theory indicates will outclass the transistor in substantially all respects.

The term "Metal Interface Amplifier" (MIA) designates the new devices and alludes to the central role played in them by thin metal films.

Significance of the MIA lies in its promise of achieving small, low cost, reliable circuitry, by virtue of its ultimate compatibility with microminiaturization techniques. In addition, higher operating frequencies, bandswitches, gain and power handling capabilities are indicated. The new device will find ready application to all areas of consumer and military electronics which have awaited perfection of the device for incorporation into receivers, transmitters, data-processors, guidance equipment, and surveillance systems.

The Philco program is being expanded in both device and circuit technologies.

NEW MEASURES FOR A NEW AGE

American industry must intensify and expand its research effort or falter in the world-wide race for national defense, peaceful production, and the profits of a healthy, vital free-enterprise system in the opinion of Lieutenant General Arthur G. Trudeau, chief of Research and Development, Department of the Army, at the luncheon given at the dedication of the new Research Center.

"The time has passed when advertising alone will get sales—and it certainly won't buy security," General Trudeau stated. "The two best salesmen your firm—and this Nation—can have today are—a better product and a cheaper way of making it! Research, under good management, is the key to both!

". . . To go ahead—and keep ahead—American industry must give ever-increasing support to basic research—not only in the physical sciences, but also in the social sciences.

". . . If private enterprise is to continue to flourish in this country—and it won't be the America we love if it doesn't—then—and I mean precisely what I say—then private enterprise engaged in defense industries must exercise stronger management, greater initiative and a more Spartan approach.

"Let's tighten our belts and get back to a comfort—if not a necessity—basis, instead of indulging in luxuries we can't afford.

"It seems that only a courageous and far-sighted company nowadays thinks it can afford to investigate and act in terms of what is best for our country first instead of what is obviously and simply best only for itself. . . ."

"Certainly it takes self-discipline and sacrifice to curb self-centered and human material instincts. Yet, the existence of our present and future civilization requires such a reorientation of our standards and a resurgence of spiritual over material goals. I need not spell out here several distasteful incidents on the American scene, either current or in the recent past, that cause serious concern to thinking Americans as to our sense of purpose and dedication to principle. If this great nation is to triumph over Communism, retain the American way of life, achieve new heights of progress, advance science and technology, and lead the underdeveloped peoples of the world toward a brighter future, then we Americans—individual and corporate—must place the public interest above self-interest every time. We must burnish bright the shield of American character. Unless we scour it ourselves, it will be scourged by others.

Lieutenant General Arthur G. Trudeau, Army Chief of Research and Development, who made the dedication address at the formal opening of Philco's new Research Center at Blue Bell.

"There is no record in American history of our people not rising to a challenge—the tougher the better. If hardships and sacrifices are needed (and they are) to meet the innovations and changes that are the requisites of this new era, the American people will make them as we have before—of that be assured—but they must know what they are. The preservation of our material accomplishments is important but the preservation of spiritual treasures unleashed by blood and toil to build this nation is priceless. The keys to our survival are faith, not fear, courage, not complacency, and patriotism, not patronage."

Seated at the speakers' table (from left to right) are Donald G. Fink, vice president-Research; Lt. Gen. Arthur G. Trudeau, Army Chief of Research and Development, U. S. Army; President James M. Skinner, Jr., Leslie J. Woods, retired, former vice president for Research and Engineering, and D. B. Smith, vice president-Technical Affairs.

A dramatic moment at the dedication of the Philco Research Center came when the ribbon was burned under the control of a signal produced by a new amplifier, the Metal Interface Amplifier, developed by scientists of the laboratories. A recording of the signal was heard over the loudspeaker as the ribbon parted. The story on the Metal Interface Amplifier is to be found on Page 3. President James M. Skinner, Jr., dedicated the new Research Center "to advance the frontiers of science for the benefit of the nation."

Guests of honor and Philco employees lunch in the large room at the center reserved specially for the occasion. Displays erected by other divisions recorded several of Philco's technical accomplishments.

FAMILY DAY AT THE RESEARCH CENTER

An early arrival at the open house for all Philco employees and members of the Blue Bell community is greeted by Receptionist Jean Derstine. Jean presents a copy of the handsomely illustrated souvenir brochure designed for the occasion and a copy of the Ambler Gazette which devoted a special section to the Philco Research center.

A mockup of the Department of Defense Courier satellite in the entrance lobby of the Research Center attracted the attention of all visitors, young and old alike. The payload of the Courier system, the satellite itself, was designed and developed in Palo Alto, Cal., at the Western Development Laboratories of Philco in accordance with specifications by the directing agencies.

The names of all who attended the open house were written in the guest books provided for this purpose at the entrance.

Refreshments, served in the Research Center Cafeteria, proved to be a popular feature on Open House Day. The young visitor in the foreground brought along his own food—"just in case."

An unofficial tour of the Research Model Shop, with a pause to examine a surface grinder, is conducted by Howard E. Fulton for his family and friends. Mr. Fulton is section manager, Mechanical Services.

BIOGRAPHY OF A BUILDING

The layman is seldom aware of the preliminary thought and work which goes into a building. Yet to plan, design and engineer the Philco Research Laboratories at Blue Bell over 24,000 man hours were expended by 36 architects and engineers of the Ballinger Company before the first spade of earth was turned on the site!

At the outset it was decided that the laboratory was to be as functional as possible in its design yet include as many unusual and stimulating design features and comfortable living spaces as could be provided at modest cost. Also it should reflect the suburban living of its location.

Having established the concept, a myriad of details had to be worked out. Where was the building to be located . . . its shape . . . its appearance . . . its cost . . . these and many more questions had to be answered. First, however, came the problems of zoning, working out the servicing of the building of utilities such as water, electricity and sewers.

The site itself, although presenting no unusual problem, had to be carefully studied. Test borings were made on the site to determine the bearing capacity of the soil for the proper design of the foundations. A topographical survey was made so that the site could be properly graded to balance the cut and fill.

And finally the building itself had to be designed. An architect does more than make pretty pictures of what the building is to look like: he must, in effect, completely build on paper the entire building. The size and strength of every beam and girder must be determined and drawn, the walls drawn so that each unit will fit together properly. The plumbing pipes of all of the laboratories must be drawn and sizes determined. Every piece of electrical heating and air conditioning equipment must be selected and shown on the drawings—down to the last nut and bolt.

Although it is not evident in looking at the finished structure, a building is constructed of decisions. The translation of the occupants' requirements, the company's policies, and the state of today's construction art into the "nuts and bolts" requires a series of decisions by the client, the architect, the engineer and the builder.

As an example of the complexity of a research facility the air conditioning system might be considered. The scientists who occupy many of the spaces in the Philco project conduct highly critical experiments which must be carried out under constant and exact conditions of temperature and humidity. Should fluctuations occur, equipment can be distorted and measurements will be rendered inaccurate.

To provide the necessary conditions in the finished building, the owner and the architect must analyze the work which will be performed in each laboratory, and must establish the range of temperatures and humidities which are to be furnished. Since air conditioning is accomplished by providing enough cool air to the space to offset the heat from lights, people, Bunsen burners and electric motors, the owner and the architect must decide in the beginning how much or how many of these will occur in each of the spaces to be conditioned. Obviously a large number of decisions are made here. From all of this information the air conditioning engineer calculates the heat balance of each room and then designs the necessary refrigeration equipment and controls to furnish the proper amount of cooling. The same procedure occurs for each of the features contained in the building.

Thus it is that few people not closely connected with a project of such scope as the Philco Research Center realize the many hours of engineering and planning and the many thousands of dollars which are invested in the preliminaries to actual construction.

TECHOLOGIES DEVELOPED BY THE RESEARCH DIVISION

Dedication of Philco's new Research Center at Blue Bell exemplifies the progress the Company has made in the electronic industry as well as in the space age.

Since its beginning at the turn of the century as a small Philadelphia storage battery company, Philco has made many contributions to the field of research. Known during the 30's as a manufacturer of radio receivers and phonographs, as well as of storage batteries, Philco in that decade also carried on a significant development program in all phases of television broadcasting.

It was during this period that the Company built our experimental broadcast station W3XE. Thereafter our cameras were seen at civic and sports events while many amateur dramatic and choral groups came to our studios to try their skills in this new media. Television broadcasting was later commercialized and after World War II grew to the major industry it is today.

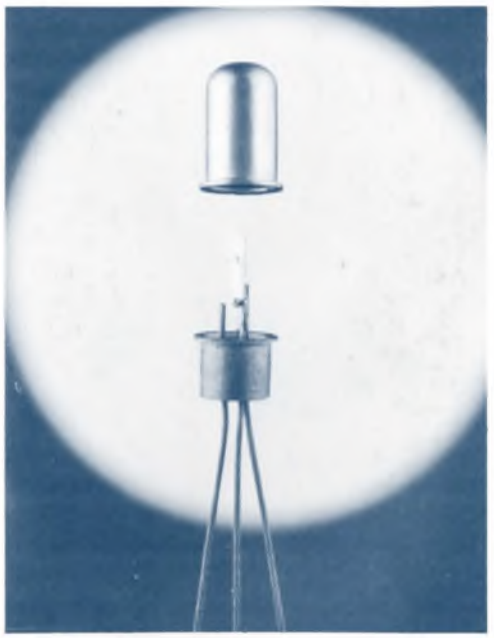
Philco formally organized its Research Division in 1940 with the broad charter to provide for the growth of the Company in the exciting field of applied science. This meant, during the war period, research in the fields of radar, electronic fuzes, microwave devices of all kinds, and the broad field of radio communication.

The first commercial result of this research effort was the development of point-to-point microwave communications systems for television and multiple voice channels as a substitute for the then coaxial cable systems. Work also continued upon more sophisticated radar systems to improve their range and ability to see important military targets and to discriminate between useful information and unimportant information.

Similar studies were carried on in the field of electronic fuze for missiles and anti-aircraft weapons. This effort provided part of the base for the Government and Industrial Division of the Company which was organized a few years after the war to capitalize upon the micro-wave communications and military developments.

During this period, the Research Division was also concerned with color television and with the various new technical developments needed in radio tubes, cathode ray tubes and black and white television. These developments were passed on to our Lansdale Tube Division. Through this effort television pictures became bigger, brighter and better—television receivers became smaller, more efficient and less expensive. Their performance improved markedly.

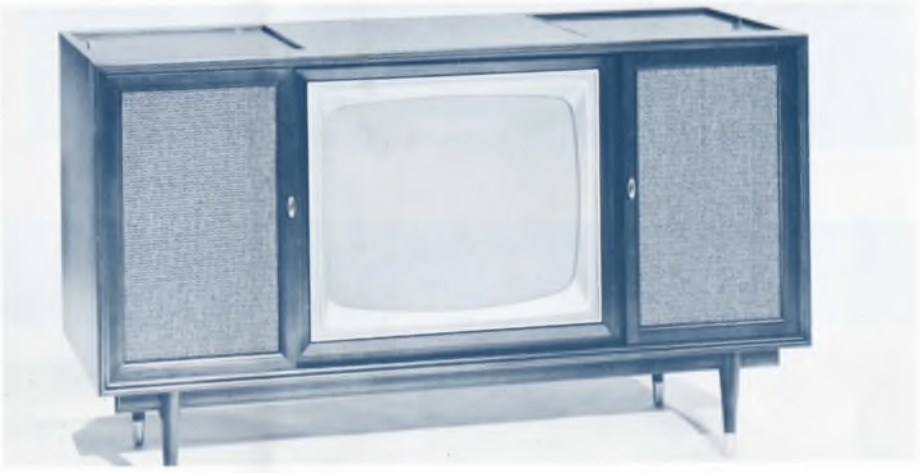
The Philco Big Dish Antenna, now installed at the Vandenberg Air Force Base, where it is used for trailing satellites such as the Discoverer and Midas.



Philco's Surface Barrier—first of the now famous "precision-etch" transistors—made the modern high speed computers possible—set unchallenged precedents in reliability.

Philco 2000 Electronic Data Processing System, one of the major products resulting from basic research.

Magnification of Metal Interface Amplifier (MIA).



Philco's Stereo-TV Theatre Model 4910 in the Company's "Vivid-Vision" television line for 1962. This console has AM/FM radio, and is equipped to receive the new FM/Multiplexing stereo broadcasts.

Our field test stations for fringe performance successively moved from Sellersville to Quakertown to Allentown and beyond.

At the turn of the Fifties research results began to appear in the new field of solid state devices and in 1953 Philco Research announced the discovery of the now famous Surface Barrier Transistor. This led to a major expansion—first of our Engineering organization, and then our manufacturing facilities for transistors at Lansdale. Many highly automatic production lines have been built to manufacture the Surface Barrier Transistor and later additions to this family.

The Philco plant at Spring City was acquired to manufacture transistors exclusively and, more recently, new buildings have been added at Lansdale, itself for this purpose.

The development of Philco's high speed, highly reliable, transistor opened up many new end-product opportunities which had heretofore not been feasible. Among these were included the very large scale digital computer. With our new transistor as a starting point, we began the development of the Philco Transac 2000, computer, which led in turn to the family of Philco computers and to the formation of the Computer Division with its new facilities at Willow Grove.

At the other end of the scale, transistors also revolutionized the design of small radios and brought the tiny pocket-size receiver, indispensable companion to the teen-ager. In the military, industrial and medical fields, new products are being found daily which would not be possible but for these devices.

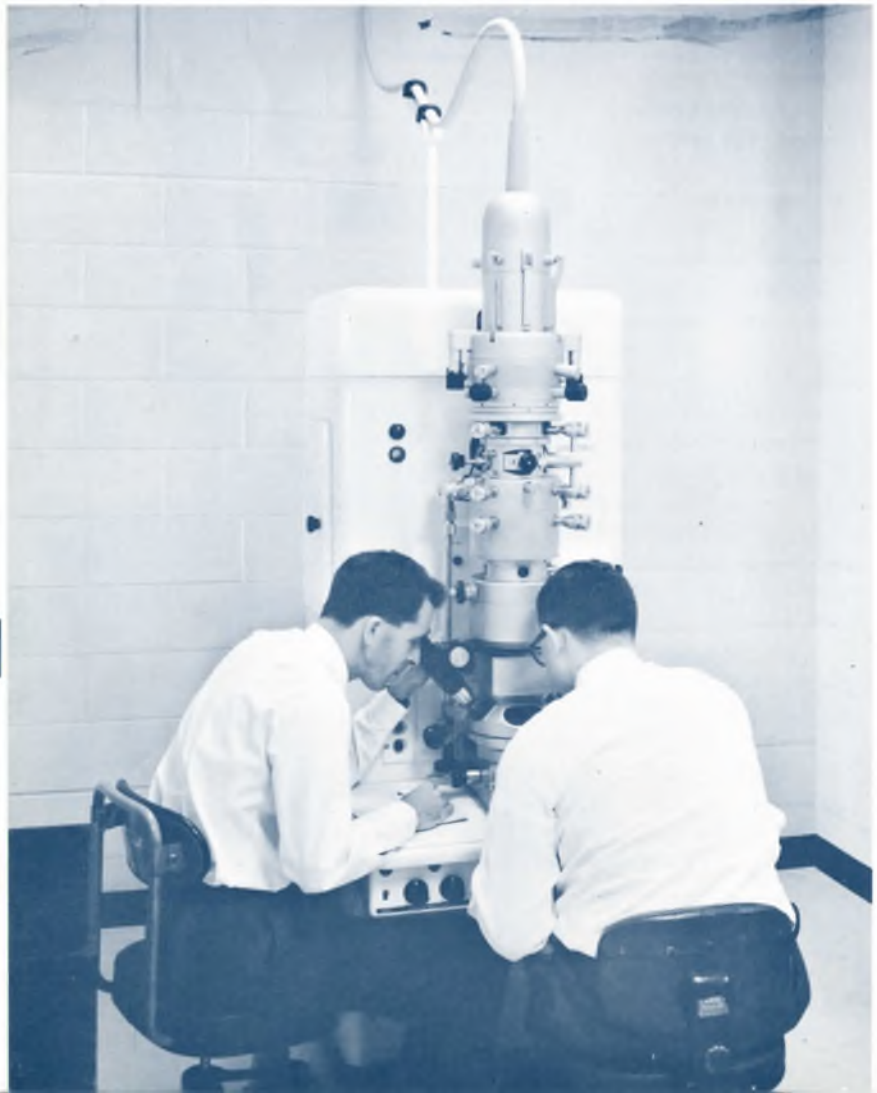
Again, in the field of communication, a small nucleus of people was detached from Research and sent to the West Coast in the mid-fifties to work on space problems. From this grew Philco's Western Development Laboratories which had had an important part in the electronics of satellite programs such as the Air Force Discoverer series and recently built the Courier communication satellite for the Army Signal Corps.

These are some of the fruits of Philco Research since its inception about twenty years ago. There are many others, some of which cannot be discussed for reasons of national security and others because they are too new.

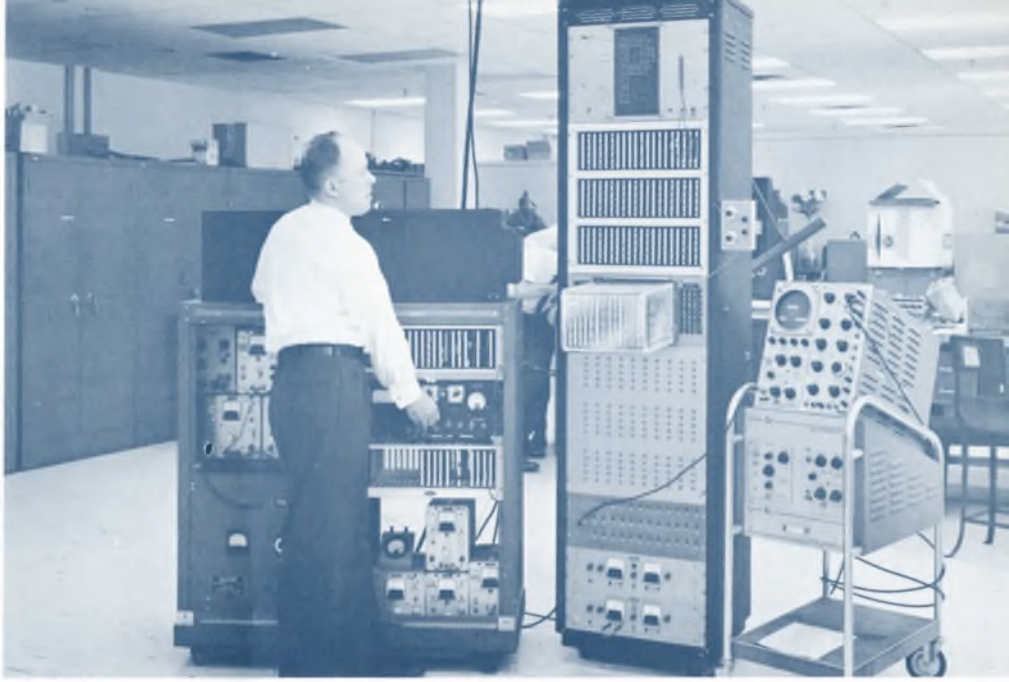
Our Research Division is continuing its efforts in these fields and is opening up new ones. It is much too early now to predict where these will go. But we confidently expect that, just as in the past, from these efforts will come other major new products and businesses. This is the charter and the promise of our Research Center.

Dr. Boris Cahan adjusts multi-stage still used at Philco Research in production of hyper-pure water.

VARIETY OF TECHNICAL SKILLS REQUIRES DIVERSIFICATION



This Electron Microscope, with its high resolution, is an indispensable tool in the development of small-volume or thin film devices in which surface characteristics play a dominant role in determining performance and reliability. In addition to its use in routine analysis, the microscope is a powerful exploratory instrument performing an invaluable function in fundamental studies of thin-film preparative techniques.



The experimental character recognition equipment shown is capable of reading alpha-numeric characters in the type-font of most typewriters. This machine, developed by the Research Division, has been used in the investigation of all-electronic, variable-font character reading techniques.

OF LABORATORIES

IMITAC—Image imput for automatic computer is a Philco Research tool used in analysis of pictorial data handling schemes. Allen Ett, research section manager, adjusts the equipment.

GOVERNMENT AND INDUSTRY TO BE SERVED BY NEW COMMUNICATIONS SYSTEM BUILDING

The expanding Communications Systems Division, youngest member of the G & I Group, early last month moved into its own new building in the Fort Washington (Pa.) Industrial Park.

The $1,000,000 building provides facilities for the development of large and complicated communications systems for Government and industry.

At the building's formal dedication, division general manager Maj. Gen. E. B. Garland, U.S.A.F. (Ret.), told some 400 employees and visitors that the facility and its work "underline the burgeoning importance of improved communications capabilities."

He pointed out that "the sudden arrival of the space age has thrust upon us extremely complex communications problems which require the rapid development of new skills and facilities."

The Communications Systems Division has grown during the past two years from a staff of half a dozen employees to its present 350. Since it was organized, the division has completed communications assignments for the armed forces and industry, ranging from the installation of small microwave radio links to an overall modernization of the Air Force's worldwide communications network.

The division this Spring completed the design and construction of a master control center near Washington for the Department of Defense which ties together the communications systems of the Army, Navy and Air Force. With a Philco 2000 large-scale computer as its nerve center, the complex system controls the flow of all non-tactical military messages throughout the world.

The division's staff includes, in addition to General Garland, Henry E. Hockeimer, assistant general manager; Morton L. Long, chief engineer; John Pell, installation manager; James Mongell, procurement manager; and John C. Boyle, administration and services manager.

1. **Communications Systems Division general manager, Maj. Gen. E. B. Garland, U.S.A.F., Ret, strikes southpaw stance before snipping the ribbon officially opening the new Philco Building in the Fort Washington Industrial Park Others in the photograph are John Boyle; John Pell; James Mongell; Henry Hickman; W. R. Wilson, and Elmer Hansen, president of the Fort Washington Industrial Park.**

2. **New home of G & I's Communications Systems Division is this modern building in the Fort Washington (Pa.) Industrial Park. The new building, occupied early last month, provides the division with facilities for the development of complex communications systems for government and industry.**

3. **Philco executives (left to right) R. B. Gallagher, manager, Philco insurance-real estate department; W. R. Wilson, vice president—finance and treasurer; Gen. Garland; Joseph Hertzberg, G & I vice president—marketing; and TechRep vice president Robert F. Herr get together during a tour of the new Philco Building in the Fort Washington Industrial Park.**

4. **Employees of the Communication Systems Division and visitors pass through lobby during tour of new facilities following official dedication of the recently-completed Philco Building.**

"The Many Worlds of Philco" public exhibit occupies 4,000 sq. ft. on the street level at 808 17th St., N.W., Washington, in the above modern office building just completed.

"THE MANY WORLDS OF PHILCO" SHOWROOM OPENS IN WASHINGTON

Diversification of Philco Corporation, expressed in its broad range of consumer and industrial operations, is the theme of "The Many Worlds of Philco" exhibit which opened in May in Washington, D. C. The exhibit is open to the public daily, except Sunday.

Philco, 69 years in the industry of consumer products and a quarter of a century in government and industrial manufacture, is presenting a contemporary account of its business in major home appliances, TV, radio and phonographs, as well as scientific and outer-space achievements.

This permanent exhibit occupies 4000 sq. ft. on the street level at 808 17th St., N. W., in one of Washington's newest modern office buildings.

In addition to being a showroom, the center offers many services to the local consumer and tourists, government and business publics. There is a wide range of product and industrial displays with accompanying literature and demonstrations. Although no sales will be conducted, interested parties, both local and transient, are advised where Philco products may be purchased throughout the United States.

Because of the variety of scientific displays the showroom can cater to educational groups, at high school, college, and business levels. Also, the center will serve as a medium for communicating with company dealers in the interest of new products, and with industrial and home goods designers and decorators, and builders.

The display will be kept current with all new products of the Corporation.

"The Many Worlds of Philco" exhibit is the first of its kind for the Company and is unprecedented for Washington, D. C. by anyone in the appliance-TV-radio, and government and industrial manufacturing industry.

William Fegan (left) is manager of Philco's consumer-industrial exhibit in Washington, D. C., Philco; and, Frank Banner, general manager of Philco Distributors, Inc., Washington Division, will supervise the overall operation.

A portion of the front view of Philco's new show room in Washington.

Noted Channel 3 newscaster Vince Leonard (left) learns from TechRep Vice President Robert F. Herr details of the division's job of monitoring the electrical and mechanical systems in the astronaut's space craft during an interview later telecast by WRCV-TV, Philadelphia. TechReps participating in Project Mercury were assigned to 16 tracking stations located around the world.

TechRep General Manager Sam Webb (left) points out for WCAU-TV reporter, Gregg Walter, area in the Atlantic where Cmdr. Alan B. Shepard, Jr., landed following first flight into space by an American. The filmed interview, covering TechRep's role in Project Mercury, was telecast by Channel 10, Philadelphia.

TELLING PHILCO'S ROLE IN THE SPACE AGE

News of Philco's part in Project Mercury—America's man-in-space program—was given wide coverage in the press throughout the nation in the weeks leading up to the historic space flight of Cmdr. Alan B. Shepard, Jr.

The TechRep Division has assigned 16 field engineers to assist the National Aeronautics and Space Administration in monitoring the flights of the astronauts. The 16 engineers, one of whom is assigned to each of the 16 Mercury tracking stations which girdle the globe, observe and report the functioning of the complex electrical and mechanical systems in the astronaut's space craft.

In addition to heavy national newspaper coverage of TechRep's role in this space flight program, many Philadelphia area radio and TV stations arranged taped or filmed new interviews most of which were broadcast just prior to Astronaut Shepard's "lift-off" from Cape Canaveral, "Beeped" telephone interviews were broadcast by radio stations WIBG, WIP, WPEN, WDAS, all of Philadelphia; WVCH, Chester; WKDN, Camden; WAAT, WTTM, Trenton; and WEEU, Reading.

TechRep supervisor Bob Mentzer (far right) told radio station WPEN listeners of the part Philco is playing in the Nation's man-in-space program during a space symposium conducted by the station. Dr. I. M. Levitt, director of Philadelphia's Fels Planetarium (second from left), moderated the show. Other panelists represented other Philadelphia-area electronics firms.

Cameraman zooms in for closeup view as popular TV newscaster Gunnar Back (right) interviews TechRep General Sales Manager Frank Creaser. News of the division's Project Mercury assignment was revealed during a showing of the filmed interview over WFIL-TV, Channel 6, Philadelphia.

Four members of the U. S. Army Signal Supply Agency, who attended a 10-day Training-With-Industry program at Philco, are shown above with Robert Ensinger, center, advertising coordinator for the Government and Industrial Group, who conducted the training course. The Signal Corps personnel visited not only Plant 50 but the Computer Division at Willow Grove, the Lansdale Tube Division and Communications Systems Division at Fort Washington. The men are, left to right, Donald R. Jones, contract specialist USASSA procurement activity, Joseph P. Korlin, Jr., chief, systems engineering division, integrated data systems, Mr. Ensinger, Edward J. Carroll, management analyst, comptroller's office, and Paul F. Peterson, supervisory auditor, internal review activity.

The military committee of the North Atlantic Treaty Organization, top-ranking military men representing 15 NATO nations, toured the huge aircraft carrier USS INDEPENDENCE during a visit to Norfolk, Va., and viewed various exhibits displayed on the hangar deck. Here they inspect the exhibit sponsored by Philco. From left to right are Air Chief Marshal Sir George H. Mills, Royal Air Force (to the rear), Group Captain L. M. Laws, Royal Air Force, and Captain O. B. Hatlem, Royal Norweigian Navy (back to camera). Admiral Robert L. Dennison writes that the display "was a credit to your organization and American seapower. The integrated displays of commercial and naval exhibits gave impressive evidence to our foreign friends of the close alliance of industry and military in our democracy."

John E. Ramsey (at left), Area Manager of the South, has won more awards for sales and promotions than any other Philco employee in history. He is shown here accepting congratulations for twenty-five years with Philco from Robert J. Theis, General Sales Manager.

Not counting this plaque, Mr. Ramsey has won twenty-five major sales awards since joining the Philco family as a Distributor Salesman in Jackson, Mississippi in 1926.

Kenneth E. Kefauver (right), president of the Philadelphia Chapter of the American Public Relations Association, confers with the Honorable B. C. Okwu, minister of information for Eastern Nigeria, at the recent convention of APRA. Minister Okwu was banquet speaker at the national conclave which was hosted by the local chapter of APRA. Mr. Kefauver is public relations manager of Philco's consumer products.

Innkeeper Norris E. Allen of Treadway Inn, Dover, Del., with Miss America, Nancy Anne Fleming, during Miss Fleming's recent appearance for Philco Firestone. Pictured with the couple is Philco's newest "Custom Coordinate" TV ensemble. The Treadway Inn at Dover has just been completely installed with Philco TV through Tele-Sound, Inc., a hotel-motel distribution for Philco.

Some fine points on bookkeeping are explained by Al Schimpf, Philco Corporate Accounting, and business adviser for the Junior Achievement group sponsored by Philco. Rose Baynes, of Little Flower (right) and Dolly Mangialardi, of St. Huberts, listen carefully to their counselor.

Production is in full swing at the Treetop Novelty Company under the supervision of Frank Gallagher, Cost Engineering at Philco. The teenagers are making a snack stand for sale in the neighborhood of Junior Achievement headquarters at 4955 Frankford Avenue and among their friends and schoolmates.

A report to members of the board of the Treetop Novelty Co., the Junior Achievement group sponsored by Philco, is delivered by the president, Pat McCollogh. Frank Gallagher, Cost Engineering, production adviser to the group, and Al Schimpf, Corporate Accounting (both right), are interested onlookers.

LEARNING BY PRACTICE

Business know-how gained through practice is the aim of the Junior Achievement group sponsored by Philco during 1960-61. This is the tenth consecutive year the Company has sponsored this program designed to give teenagers a preview of the business world by giving them practical experience in financing, management, production and selling.

This year the teenagers from high schools in the Northeast section of the city organized an enterprise called Treetop Novelty Company for the production of a snack rack. Philco employees, who volunteered their services, showed the young people how to organize their business venture, finance and manage it. At the end of the fiscal year, with the product ready for sale, the advisers counseled the Junior Achievers on marketing the goods. During the course of the year the young people sold stock in the company, purchased raw materials, kept books, prepared payrolls, and held meetings of stockholders.

Al Schimpf, for the seventh year, advised the boys and girls on financing and accounting in his capacity as business adviser. Production problems were considered by Frank Gallagher who served as adviser for this activity. Bob Strauss served as sales adviser.

Representatives of Olney High School, St. Huberts, Father Judge, Little Flower and Kensington were included in the Junior Achievement group.

Dave Cunningham (left), Dep't. 12-743 Computer Plant, receives the good word from Bill Enslin, supervisor, that he has won $35 for a suggestion affecting tab runs.

George Nardello (right), receives congratulations and a check for $500 from George Masurat, manager of manufacturing, Communications & Weapons Systems Division, as Charles Lieberman, secretary of the Division's Suggestion Committee looks on.

Mr. Nardello is assistant foreman of the printed circuit board production department. His suggestion proposed filters for the etching machines.

One hundred and forty-two awards, totalling $8,162, have been paid to thinking employees in the first five months of 1961. Eight hundred suggestions currently undergoing investigation give promise of more awards to come.

Communications & Weapons Systems Division had a $1,000 award winner in March and a $500 winner in April. Awards of $420 and $285, respectively, were paid at the Lansdale Division, and $227 by the Electronic Engineering Department Committee in Plant 2.

At Fairfield, Iowa, the Plant Committee received so many beneficial suggestions they were able to adopt 25 in the first four months.

SUGGESTIONS will always be news, because they represent the creative mind of man (and woman) at work, seeking ways to accomplish results better, more easily and more inexpensively. THERE'S ALWAYS A BETTER WAY!

IT PAYS TO SUBMIT SUGGESTIONS

Rayford Nugent, general manager of the Accessory Division, presents award to suggester Francis J. King for proposing wise use of a guard-rail.

John Millar (left) employed in Maintenance for 19 years thanks Sam Kehler, Supervisor for the kind words and the check for his award-winning suggestion.

Viola Carver, Computer Dep't. 12-505, accepts her suggestion award check from supervisor Ray Kleckner for recommending a method improvement in core-weaving.

Carol Brooks Wackerman, secretary at our Western Development Laboratories, obtains a form for submitting another suggestion.

PHILCO-ITES ALL SET TO GO ON EUROPEAN VACATION TRIP

Everything is in readiness for the departure of the Europe bound plane with its load of Philco employees all set for a glorious vacation in an old world setting.

The Company sponsored European vacation trip starts with the close of business July 14 and ends with the return of the big plane to Philadelphia's airport on July 30. The event filled 17-days of travel will enable the Philco-ites to become acquainted with London, Paris, Lucerne, Venice, Florence and Rome. Some of the group will also take the extended tour which includes sight-seeing in Naples and Pompeii and an overnight stay in fabulous Capri.

Get-acquainted meetings have been held for the Philco group; last minute information has been given concerning passports, vaccination certificates, luggage allowances and the type of clothes to be worn. Everything is in readiness for the greatest vacation ever.

English speaking guides will greet the Philco visitors in each of the cities to be visited, de luxe motor coaches will take them to the historic and the beautiful landmarks of the countries visited . . . and there will be ample time allowed for shopping for gifts and for souvenirs.

In addition to sight-seeing and shopping, many social events await the travellers. Special entertainments—dinners, night clubs, the theatre—are among the activities on the agenda. Then in Switzerland and Italy the visitors will be participants in some of the local festivities. Wherever the party goes Philco's group will have ringside seats.

The 1961 European tour promises a never to be forgotten investment in happy memories of Europe and Europeans.

Best wishes for the future are extended by friends in Plant 18 to Claire Gerstley upon her retirement after 15 years of service with the Company.

Gifts from friends in the Accessory Division are received by Charles McCloskey, Jr., (center), upon the occasion of his recent retirement from Philco after 16 years of service. His son, "Huck" McCloskey, financial secretary of Local 101, is to the left in the picture.

Members of the Plant 2 Golf Association display trophies won in the Easter Monday Jack Poole Memorial Tournament. From left to right are Tony Popolo, low gross; Gordon Moylan, second low net; Tom DiPaola, first low net; Larry Gryn, second low net, and Bob Cahill, 1960 two man team winner.

Employees make "proof positive" tests of Philco's new commercial automatic dry cleaning machine. This new equipment was installed in Plant 2 by the Special Markets Department and employees were permitted to bring in clothes to be dry cleaned to prove the value of the machines. The Philco-Bendix Automatic Dry Cleaning machines are another example of Philco's continuing effort to develop new sales and markets. From left to right above are Marie Rich Compana, Gerry Cadogan, Joan Miller and Eileen Rush.

Watches are presented to Ann McKeown and James Petticrew by friends in Plant 18 upon their retirement. Ann has been with the Company for 27 years and Jim for 14 years.

Steve Shavinsky was honored at a party upon his retirement from Plant 50. Steve had been with the Company for 13 years.

Andrew B. Laverty, who received a B.S. in Business Administration this month from the Evening Division of LaSalle College, won an award for receiving the highest accounting average from the Philadelphia Chapter of Certified Public Accountants. He was also second in merit in Business Administration work with an average of 3.86 out of a possible 4.0. Andrew, who has been with the Company since June, 1947, served in the U. S. Army from 1951 to 1953. Presently he is an Electronic Systems Analyst in the Computer Applications Research Department.

High praise for the initiative and industry of Alfred Lutteroty is contained in a letter from the commanding officer of the U.S.S. Duval County to young Lutteroty's father, Victor Lutteroty, a veteran truck driver at Philco. The letter was sent following the return of the U.S.S. Duval County after extended operations in the Hawaiian Islands.

"Our Community Heritage," the name chosen for Willow Grove's 250th Anniversary Pageant, was suggested by 10-year old Helen Toman, a fifth grade pupil of Woodlawn School. Her entry was selected from more than 100 received by the committee. The young winner is the daughter of Lee Toman, TV Engineering, Plant 2.

Arti Picozzi, a newcomer in the recording field, is the son of Harry Picozzi, a finisher in Dept. 43-503. Young Picozzi, first heard on the Horn and Hardart Children's Hour, has made records of "Standing in the Moonlight" and "He Guides Me" for Band Box Records.

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