

PHILCO NEWS



There Is Always a Better Way
Philco's New Research Center
GREATER PHILADELPHIA EDITION

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JANUARY
1960



Medals of achievement are presented to James M. Skinner, Jr., Philco's president, and Donald G. Fink, Philco's director of research and general manager of the division, by E. R. Cox, Jr., president of the Poor Richard Club and sales promotion manager of the Atlantic Refining Company. Mr. Skinner, speaking at the presentation luncheon held at the club December 2, pointed out that Philco research expenditures have doubled in the past decade and plans call for doubling the current sum within the next five years. Mr. Fink mentioned that research at Philco had furnished the technical know-how for "Air Wrap," Transac S-2000, the "Safari" transistorized portable TV, the semi-flat configuration tube used in both "Predicta" and "Slender Seventeen" television. He described the Fast Automatic Transfer lines and production of the precision etched transistors. The speaker advised the advertising fraternity, which comprises the membership of the Poor Richard Club, that the public thirst for knowledge of scientific matters might be satisfied by advertising and public relations men through their efforts to urge scientists and engineers to describe their work in terms understandable to the public at large.

OUR COVER THIS MONTH . . . Historic Valley Green Inn (c. 1683) is one of the many places of interest in Philadelphia's justly famous and beautiful Wissahickon area which became a part of Fairmount Park in 1867. According to tradition Washington and Lafayette dined at the Inn during the Barren Hill encampment and British and American forces skirmished on the west side of the upper Wissahickon Creek the morning of the Battle of Germantown, Oct. 4, 1777. The Inn is still open to the public and is a favorite spot for many Philadelphians, regardless of the season. (Photograph by Harold J. Lambert.)

Published by the Public Relations Department of Philco Corporation—MARK LUTZ, Editor.



Lt. Col. William N. Lucke (right) is presented the United States Army Commendation Ribbon by Brig. Gen. S. R. Hammer, Deputy Chief of Engineers for Military Operations, during a ceremony in Washington. Colonel Lucke has joined Philco's Government and Industrial Group in the capacity of Systems Manager with responsibility for the planning and development of electronic data communications, display and processing systems. (U. S. Army Photograph.)



Dr. Leslie J. Woods, vice president and director of research engineering at Philco, is shown receiving the certificate of induction into Eta Kappa Nu, national electrical engineering honorary, from Allan Glaesser, president of the Drexel Institute of Technology chapter, as Drexel students (from left) Harry Gold, Eugene Boyle and Ronald Young look on. Ceremonies took place at Drexel last month.



PHILCO introduced at the January Market in the Merchandise Mart a new undercounter combination washer-dryer, "Duomatic" Model CE-700U, that is simple to install under any standard 36-inch high counter and requires only 27 inches of space.

PHILCO SHOWS NEW UNDERCOUNTER COMBINATION WASHER-DRYER

Philco introduced its new simple-to-install, undercounter "Duomatic" combination washer-dryer at the opening of the January market in the Merchandise Mart in Chicago.

Called the C-700U, the new automatic combination washer-dryer fits under any standard 36-inch high counter and only requires 27 inches of space.

The undercounter "Duomatic" requires no venting since lint and moist air from the dryer cycle are flushed down the drain. Installation of the machine is simplified and provision is made for six different methods of "hooking up" water and power lines. The "Duomatic" requires no bolts, screws or complicated floor preparation for installation. The undercounter machine also slides out for easy servicing.

The new model "Duomatic" is ideal for mobile homes because of its compact size and the exclusive Philco "Safety-Transi-Lok" which prevents movement of the machine when the mobile home is in transit.

The Model CE-700U will be nationally available within 30 days.

The new model incorporates simplified control

operation. The user selects, by push button, wash water temperature and dry cycle and then sets the timer, and that is all that it takes to wash and dry clothes in the new undercounter "Duomatic" combination washer-dryer.

The CE-700U is equipped with an exclusive "rhythm spin" cycle which automatically positions the clothes for safe, thorough water extraction in Philco's exclusive high-speed spin. The tub spins, then coasts, to distribute the wash load and position the clothes to prevent stretching and pulling. The spin speed of 560 revolutions per minute safely removes up to 50 per cent more water from clothes after washing and rinsing than any other combination to make drying faster and more economical.

This model has an exclusive, optional power soak which loosens heavy soil and grime better than an all-night soaking in tub or sink. A three-to-five-minute tumble action soak can be selected to precede the wash cycle. The soak period removes many kinds of stains that would be set by hot water.

NEW EMPLOYEE PLAN UNDER WAY

The new Philco Employee Suggestion Plan was placed in effect on January 4. An Employee Manual, containing a complete description of the plan and how it works has been made available to all employees. Any employee who has not received a copy of the Manual may do so by contacting the appropriate supervisor or department head.

The Employee Manual explains the purposes and objectives of the program, and describes what kinds of suggestions will be considered for cash awards, ranging from \$10 to \$1,000, under the program.

In addition, the booklet explains how employees may submit their ideas, and what happens to employee suggestions after they have been turned in.

Along with the Employee Manual, a Suggestion Form was provided for each employee to submit his first suggestion.

ADDITIONAL BLANKS AVAILABLE

Since there is no limit to the number of suggestions an employee may submit, and no limit to the number of cash awards an employee may receive, employees are encouraged to secure additional suggestion blanks from their supervisors, department heads, or from the Personnel Office.

In their efforts to find a "better way," all employees are urged to critically study their own job activities and familiar job surroundings . . . to take a good look at the paper work, the forms, the procedures, the methods, equipment or material being used . . . to determine where an improvement can be made which will cut



The January poster for the Employee Suggestion Plan being inaugurated on a year around basis in all plants, offices and laboratories of the company is placed on a bulletin board by Edna Curran, of the Photo and Art Department at Plant 54.

costs or improve the efficiency of the operation.

COMMITTEES APPOINTED

A Suggestion Committee, made up of department heads and key operating executives has been appointed at various locations to review all suggestions turned in by the employees in that area.

The committee arranges for the investigation and evaluation of each suggestion to determine its value or benefit to the Company. When the investigation has been completed, the committee decides

whether or not the suggestion can be put to use.

If the suggestion is adopted, the committee then determines the amount of the cash award, which will be paid as soon as the suggestion is put into effect.

Employees are instructed to forward their completed suggestions through the plant mail to the secretary of the committee appointed for their respective departments.

Employees in the Philadelphia area will forward their suggestions to the Committee Secretary indicated below.

<i>Employees of:</i>	<i>Division Code</i>	<i>Mail Suggestions to:</i>
Appliance Operations (Staff & Engineering)	30-, 33-, 39-	E. M. Burkhart Plt. 2, Ext. 5965
Consumer Goods Division (Division Staff)	21-	H. E. Gaul Plt. 2, Ext. 5850
Electronic Operations (Engineering)	49-	B. P. Haines Plt. 2, Ext. 5778
Electronic Operations (Philadelphia Plants)	40-, 42-, 43-	H. J. Scheier Plt. 10, Ext. 230
Corporate Division	01-	W. B. Yoder Plt. 2, Ext. 5004
G. & I. Division	10-, 11-, 12-, 14-	E. J. Hoffman Plt. 50, Ext. 8522
Philco International	70-	F. H. Hambleton Plt. 2, Ext. 250
Research Division	05-	R. J. Stansfield Plt. 2, Ext. 5601
Tech Rep Division	09-	D. E. Dimmig Plt. 3, Ext. 6177

PHILCO SHOWS NEW TV LINE: FIRST 23-INCH TV AVAILABLE

New Stereo Hi-Fi Model and "3-in-1" Stereo Line Also Presented

Philco has announced its first 23-inch picture tube television receiver and six basic new 21-inch receivers that will be available this month.

The 23-inch console model, called "Extra-Vision 23," will be offered in genuine hardwood cabinets of walnut, mahogany and blond oak. Three-speaker sound systems are featured.

NEW STEREO HI-FI

In addition, Philco announced a new stereophonic high fidelity console in walnut cabinet, with four speakers, at a new low price to supplement its current line of multiple channel stereo models in single space-saver cabinets. The instrument, Model 1617, is completely automatic, features two 6-inch woofers, or bass speakers, and two 4-inch tweeters, or high frequency speakers. The tweeters are contained in convertible speaker enclosures so they may be played inside the cabinet or moved outside for a remote sound separation that fully accommodates the listener's pleasure.

PHILCO'S "3-IN-1" STEREO LINE

The Philco line with its "stereo-phones," and auditorium-type bass speakers in the main furniture piece, provides three separate speaker systems with three-dimensional sound separation. Matched cross-over networks direct the mid and upper frequencies through "stereo-phones" while important base tones are channelled into the main acoustical chamber.

Philco offers a line of attractive hardwood cabinets to fit the decor of any room.

"COOL CHASSIS" TELEVISION

A new standard of television reliability has been attained by Philco's right-side-up design of the television chassis, first marketed last June with the introduction of the 1960 television line. Now, after six months of consumer experience, Philco's higher percentage of television reliability over other types of television chassis can be attributed to a much cooler operation chassis.

"Air-flo" mounting of components, a new engineering technique, minimizes heat and heat traps—the major cause of television breakdown—and increases ventilation throughout the now larger chassis panel, on which components are spaced farther apart.

In addition, the Philco "cool chassis" incorporates precision-etched "Perma-Circuit" panels which do not conduct heat.

INCREASED PICTURE POWER FOR 23-INCH TV

The new 23-inch receiver is powered by 20,000 volts, with full 282 square inches of viewable area, extending into the extreme corners of the tube face, allowing the viewer to see more of the picture.

The picture tube has a safety glass bonded to the tube face which is also tinted to reduce picture glare. This feature permits easy cleaning of the entire viewing area.

Philco announced it will continue without change its 1960 line of 17-inch portable "Slender Seventeeners," "Predicta" 17- and 21-inch consolettes and consoles, the "Mastercraft" series, and the all-transistor, battery operated "Safari" portable television sets.



Philco's first 23-inch picture tube television receiver—the 4807 in oak—is pictured above. This model also comes in walnut and mahogany. The 4807 was announced along with six basic new 21-inch receivers available this month. Philco, after six months of consumer testing, is able to state that the current television line literally has the coolest TV chassis in the industry—an entirely new design of the chassis base permits all components to be mounted vertically on one side (upper) to permit maximum "Air Flo" cooling through ventilated bases. Higher reliability for TV performance is now assured. Philco's "cool chassis" TV sets minimize heat—the major cause of TV failure.

SAFETY RECORD OF TRUCK DRIVERS WINS PRAISE OF COMPANY

During the past year Philco truck drivers drove a total of 303,449 miles.

Certificates of merit for safe driving were presented to thirty-six truck drivers by J. M. Transue, Philco security director, and John B. Swan, Jr., Philco general traffic manager. Edward Hall received top honors for his safety record of 20 years of driving without an accident. His close second was Richard Settle with a 19-year record of safe driving. James Ulrich was third with 17 years.

George Edwards had 15 years of safe driving. The record of Jacob Fox was 14, and that of Leon Kosmalski 12 years. John J. Clay and Ralph Perrie tied with 10 years each. Frank Gutchen made an 8-year record. Seven-year records were rung up by Joseph Holzer, Albert Manning, Raymond Lackey, Robert Houck and George Albright. Raymond Todd, Joseph Quilty, Victor Luttortoy and Richard Shultz each had 6-year records.

A 5-year record was held by Joseph Martin. Four-year records were shared by Charles Hohberger, Frederick Krayger and William Newsome, and 3-year records by Harry Blair, Joseph McGinnis and John Kirby. Two-year record men were Albert Poochigian, Richard Humes, Frank Buskey, Joseph Darby, Richard Hallowell, Fred Pitts and John Sloan each had 1 year of safe driving.

Other drivers honored were William Cooper and Ralph Fesmire for 11 years of safe driving; William Layne for 2 and Walter Brenko for 1.

Pioneer Americans

William F. Cody, better known as Buffalo Bill, and Thomas A. Edison were two different kinds of American pioneers. Cody, born in Scott County, Iowa, Feb. 26, 1846, helped pioneer the West as pony express rider, army Indian scout and buffalo hunter for workmen building the Kansas Pacific Railroad. Edison, who was born a year later on Feb. 11, 1847, did his pioneering in a laboratory. He gave us the phonograph, electric light and scores of other inventions that helped America become what it is today.



A NEW CONVERTIBLE REFRIGERATOR, by Philco, for 1960 is shown above. It is Model 14RD08 and when the 2.68 cubic foot freezer compartment is used as a refrigerator, the total refrigerator capacity is increased to 13 cubic feet, the largest capacity refrigerator available today. A button control is used to set the compartment for use as a refrigerator or freezer area. The ice cube compartment is not convertible, but maintains proper freezer temperature at all times. It is available in copper, pink, yellow or turquoise at a slight additional cost.

EMPLOYEE TAKES "BUSMAN'S HOLIDAY"

Felix Tanedo, of Department 503, is paying a visit back home. Home is Manila, Philippine Islands, where H. E. Heacock Co., Inc., is the Philco distributor.

A letter received by E. G. Sudol, of Philco International, from Heacock, signed by its two principal executives, stated: "We introduced Mr. Tanedo to the officials of the company and showed him our television service shop. He has been spending his extra time with our service men and giving them the necessary pointers regarding the maintenance and servicing of television sets.

"We know his stay with us will be a great pleasure and we wish to thank you for this rare opportunity of having Mr. Tanedo with us."

Truly yours,

H. E. HEACOCK, INC.

T. M. BAGAYBAGAYAN, *Manager.*

L. M. ARANETA, *Acting President.*

PHILCO CITATION KITCHENS FOR NEW LUXURY HOMES



At Hillside Estates, Builder George H. Pfirman and Philco Manager of Citation Appliances, Bob Houtz (right), shake hands to conclude a deal to equip every one of the luxurious new homes in the Estates with the latest Philco Citation Kitchen equipment.

Just a mile north on Welsh Road from the new Philco Computer Plant in Willow Grove, Hillside Estates will include 68 new homes when completed. Built in a choice of five styles, a Philco Citation Wall Oven and surface units will be included in the \$21,990 to \$24,990 price of the three- and four-bedroom homes. Other Philco equipment including refrigerators, dish-washers and washers and dryers can also be included in the original mortgage at the customer's option.

The first homeowner in the new area is a Philco employee, Ronald Bell of the Philco G & I Division. He and his family moved into their Hillside Estates home with its Philco kitchen shortly after the first of the year.



KITCHENS TO ORDER—This is just one of the many arrangements a housewife can have in her kitchen at Hillside Estates. Citation wall oven and surface units allow complete flexibility of arrangement and, with Philco's special surface unit design, homeowners may even have a drawer added directly beneath the surface units. Trim Line styling of new Philco refrigerators (optional) completes the customized kitchen.



ROOM WITH A VIEW—There's plenty of room for Philco high fidelity and TV in the spacious living rooms. Picture windows look out over rolling, wooded landscape. Curving roads and large lots protect views and add charm to the estates.



OUR NEW RESEARCH CENTER: PLANNING FOR THE FUTURE

Located on a 25-acre site in Blue Bell, Montgomery County, the Philco Research Center will be a two-story structure which will provide 200,000 square feet of space. It will be erected by Irwin & Leighton of Philadelphia from plans by the Ballinger Company, architects of this city.

An identifying feature of the air-conditioned laboratory is to be a thin undulating concrete shell roof vaulting over the 8000-volume technical library. The aluminum window-wall exterior combines glass panels with ceramic tile mosaics. The employee cafeteria, constructed of glass and brick, has a roof design of inverted umbrella shape, called "hyperbolic parabola" by the architects. A glass-enclosed passageway connects the cafeteria with the laboratories.

Interior appointments include acoustical tile ceilings throughout all offices and laboratories, constant temperature and humidity control for labs, private conference rooms, and an oval-shaped symposium room to accommodate groups of 150 persons for management and technical gatherings.

Laboratory equipment will be installed to meet Philco's commitments to government, industrial and consumer-goods research. Technical disciplines include space communications, microwave devices and systems, solid-state electronics and electrovisual devices.

Donald G. Fink, director of Research states, "The exacting—and exciting—disciplines of basic science and technology offer opportunities for product improvement and innovation. The Research Division's charter of exploration will be materially aided by its new quarters designed to help engineers and scientists find the technical paths to tomorrow's products.

TWO-STORY LABORATORY, Philco's Research Center, will rise in Whitpain Township. The tile-faced panel-wall structure will occupy a 25-acre site two miles north of the Norristown Interchange of the Pennsylvania Turnpike, and will be seen from the highway's Northeast Spur.—Drawing by The Ballinger Company

GROUND BROKEN FO

The long-range weather forecast for December 22 had read "fair and cold." Request for the weather information was made a week before when preparations were being completed for breaking of ground for Philco's projected Research Center in Blue Bell.

Either the weatherman didn't know—or he conveniently forgot to mention—that several inches of snow would cover that ground under skies that *were* fair and in weather that *was* cold. Discouraging as the weather may have been, though, fifty people stood well muffled that day to watch Leslie Woods, vice president and director—research and engineering, wield a chrome-plated shovel in an act which symbolized months of preparation and effort in planning for a multi-million dollar Research Building.

A luncheon, following casting of the earth, featured addresses by Mr. Woods; Donald G. Fink, Director of research and general manager of the division; and by Whitpain Township Supervisor Frank J. Peirce. According to Mr. Woods, Philco's electronic research

OR RESEARCH CENTER

began active exploration in 1929. The Research Division—then a department—was established in 1940.

Dollar volume in the Philco business is now six times greater than it was in 1940 and, according to Mr. Woods, "Vigorous and stimulating research efforts have succeeded in bringing world-wide recognition of Philco and its products."

Mr. Fink said, "We at Philco look to our neighbors-to-be as *neighbors* first of all." "At the same time," Mr. Fink said, "Whitpain Township is a symbol of the United States, for which Philco labors.

"So that the United States might attain a commanding position of defense for this community and hundreds of thousands of communities like it, Philco Research is dedicating its manpower and its creative capability."

Mr. Peirce, in replying to remarks by Messrs. Woods and Fink said, "In working so closely for planning this new building, we have found a spirit of cooperation and sense of duty that we may look forward with confidence to Philco's Research Division being a prime asset to our community. Gentlemen, you are welcome."

MORE THAN FIFTY PEOPLE from Philco and the Township met for luncheon after ground was broken. Here, recovering from cold and snow encountered at the site, are Carlo V. Bocciarelli, associate director of Research; Joseph Gillies, vice president—Operations; Donald G. Fink, director of Research and general manager of the division.



HUGE EARTHMOVING EQUIPMENT began work for Philco's Research Center. Thousands of cubic yards of earth had to be moved in preparation for the construction to follow.



PHILCO VICE-PRESIDENT LESLIE WOODS, before turning the first shovelful at the groundbreaking, stresses the historic aspects of the occasion for both Philco and Whitpain Township.





Among the sights you will see on the Philco sponsored vacation trip this summer is the famed Pantheon in Rome pictured above. The Pantheon is substantially unimpaired after virtually 2000 years of existence. It was built in 27 B.C. by Agrippa and later restored by Hadrian and then by Septimus Severus and Caracalla, and finally when it was converted into a church. It is a copy of the Pantheon of Greece. Its sixteen columns of marble were brought from Egypt. The Pantheon holds the tombs of many Christian martyrs as well as that of Victor Emmanuel II and the great Raphael.

SIX MONTHS FROM NOW—during the summer vacation period—the Philco party will be viewing the beauty spots of England, France, Switzerland and Italy. It is never too soon to sign up for this trip, for while registration for it has been heavy there remain a few reservations unfilled. But these are on a first come, first served basis. Enjoy the sights of London, Paris, Lucerne, Venice, Florence and Rome at the special low price made possible by the company sponsorship of the trip. Full details are available by dialing Ext. 418. A meeting of those interested in taking the European trip and those considering the trip was held in the Home Economics Center January 18. Motion pictures of the countries to be visited were shown at this meeting.

WDL LIGHTS MOUNTAIN TOP FOR ANTENNA CHECK

Floodlights are being installed near the top of Black Mountain, eight miles south of Palo Alto, California, to illuminate a 32-foot square target used in checking the aim of large antenna systems for space communications and radio astronomy projects.

Philco's Western Development Laboratories (WDL) has announced that the lighting system will go into operation later this month during night tests of a giant 60-foot reflector the firm is building for a remote Air Force tracking station.

The mountain target will be visible over a wide area from San Jose to Menlo Park. It resembles a billboard and has been painted a fluorescent yellow to make it stand out.

The face of the structure will be partially masked to form a cross when the tests get underway. The

cross provides an optical target with an electronic bullseye—a tiny one-watt transmitter mounted in its center.

Engineers will sight the big dishes on the cross, then compare their sighting with electronic measurements of signals received from the transmitter. The process, known as boresighting, provides a guide for calibrating an antenna's accuracy. The technique is comparable with what a rifleman does when lining up a gun's sights with its barrel (or bore) to see the same target.

A unique feature is being built into the floodlighting system. Its five-kilowatts of power will be turned on and off by remote control from the Philco plant near Bayshore and San Antonio road.

PHILCO'S 1960 ELECTRIC RANGES HAVE "QUICK CHEF" OVENS

An infinite variety of modern foods for modern living, such as frozen foods and snacks, can be quickly and economically cooked in the super-fast "Quick Chef" electric oven which highlights Philco's 1960 electric range line.

The "Quick Chef" oven supplements the 23-inch wide Master oven in two Philco electric range models. The compact, utility oven can roast, bake or broil and is only eight-inches wide. It takes only six minutes to preheat, compared to regular oven preheat time of 9 to 10 minutes, and uses a 1500 watt element and operates on 110 volts. A standard oven watt rating is 3500 and uses 220 volts for operation.

The "Quick Chef" oven was introduced first in January 1959 and, reports Jack Cherry, merchandise manager of electric ranges: "Response from consumers has been overwhelmingly in favor of range models using this supplementary and very practical oven."

Designed for modern living, the "Quick Chef" oven makes it possible to prepare frozen dinners, pies, small roasts, chop and snacks without heating up the big Master oven. It is ideal, for example, for children's lunches, since it handles the same range of foods as a larger oven and saves on both electricity and cooking time.

The entire "Quick Chef" oven slides out of the range for cleaning at the sink. It is controlled by a separate thermostat on the back splash of the range. The oven is equipped with a broil pan, pan rack, oven rack, rack guides and a cookie sheet.

Other Philco Range Features

Included in the 1960 electric range line—including both 40- and 30-inch models—are such proven Philco features as "Broil-Under-Glass," an exclusive method of broiling foods which uses a tempered glass panel beneath the broiling unit to prevent smoking caused by fat spattering against an unprotected broiler element. The entire "Broil-Under-Glass" unit can be quickly removed for cleaning.

A "Hide-A-Way" rotisserie is included in the deluxe 40-inch electric range model and is available as an accessory on the de luxe 30-inch range. The rotisserie folds flat for compact storage.

Another Philco feature is a cordless controlled heat griddle for surface cooking. The griddle is large enough to take six to eight hamburgers and has a self-contained drip tray to prevent spill-over of hot fats. It has a removable thermostat control so that the griddle can be completely immersed in water for cleaning.



PHILCO'S 1960 "Quick Chef" oven supplements the 23-inch wide Master oven in the de luxe 40-inch electric range shown above. The compact, utility oven takes only six minutes to preheat and uses a 1500 watt element and operates on 110 volts. The entire oven slides out of the range for cleaning at the sink. The Philco range shown is Model 405509.



UNITED FUND GIFT—Thomas Ford (left), vice president of the Santa Clara County United Fund accepts a \$4,592 check from the Philco Corporation Western Development Laboratories, presented by WDL General Manager Oscar T. Simpson, of Los Altos. Employees at the Palo Alto electronic center pledged an additional \$10,000 to the U-F drive through individual payroll deductions and cash gifts.

TAXES AND YOUR FAMILY RECORDS

Family record keeping probably ranks with mowing the lawn and cleaning out the attic, as being among the things you would most like to avoid in your leisure time. However, carefully prepared family records can pay off in dividends . . . tax-refund type dividends. For to take advantage of any of the many legitimate tax deductions you are allowed, you must have adequate records.

Perhaps the possibility of cash savings will prompt you seriously to consider the suggestions given here by the American Institute of Certified Public Accountants. They show why you should keep monthly records of most of your tax deductible expenses.

Medical and Dental Expenses

You can deduct medical and dental expenses in excess of 3 per cent of your adjusted gross income. Medical and dental expenses include not only doctor and dentist bills, but also such things as X-rays, hospital insurance premiums, and hearing aids.

Many people, particularly people with hospitalization insurance, figure that they will never have enough medical bills to allow them a deduction, so they pay their doctor and dentist in cash whenever they make a visit and don't bother to add up the expense. However, medical bills have a way of hitting hard and fast. A valuable deduction may be lost simply because you cannot tell how much you have paid to various doctors and dentists for the care of yourself and your family. And remember, every \$5 you deduct will put a dollar or more back into your pocket.

So, record your medical and dental expenses on a monthly basis. Be pessimistic. Assume that your bills will be high for the year, and that you will need to accumulate them toward a deduction. Also assume that the Internal Revenue Service will want to check your return. You can and should get

proof of your medical expenses as they are paid. Either pay all expenses by check (made out to the doctor or dentist, not to "cash") and keep the cancelled checks, or ask for a receipted bill whenever you pay cash.

Cost of Drugs

Drugs in excess of 1 per cent of your adjusted gross income can be deducted as a medical expense. However, you must be sure to segregate drug purchases from other things you buy at the drug store. Toothpaste, cosmetics, and



toiletries can't be included. Neither can vitamins, iron supplements, or other formulas taken to preserve your general health. However, there are many drugs and medicines you can buy without a prescription that will allow a deductible expense. Such things as headache and cold remedies, lotions to heal cuts and bruises, and so on.

Charitable Contributions

The federal tax law allows a very liberal deduction for charitable giving. Whether or not the amount you give each year warrants your keeping a tally can best be answered by you, but if you are at all generous there are some things you should consider. Your deductible contributions to charity can go as high as 20 per cent of your adjusted gross income, and up to 30 per cent in some cases. The instruction booklet you receive from the Internal Revenue Service gives information on the various organization that are

considered charitable for tax purposes.

An important point to think about here is that your charitable contributions can be made in forms other than cash. For example, you can give shares of stock, land, furniture, clothing, and so on. The deduction you are allowed for items other than cash is measured in terms of the value of the item at the time you give it. You may have purchased a set of living room furniture some years ago for \$800, but at the time you give it to your local church it has a fair market value of only about \$50. Your deduction would be \$50. It is important to keep a record of the gift, particularly the date it was given, and if it happens to be stock, you might clip the stock market quotations from the newspaper of that date to show the price it was selling at.

State and Local Taxes

You will probably not be able to support every deductible expense with a cancelled check or receipted bill, but if you know approximately how much you spent on purchases subject to, say, sales tax, you will be able to make a reasonable estimate of the amount of tax you paid, which is a deductible item on your tax return. The Internal Revenue Service will allow such an estimate. However, if your purchases are unusually high because you bought a new car or some other expensive commodity, your best bet is to be able to show the bills on at least the large items. It pays to set up a record for state and local taxes paid, and estimate the amount each month while the expenses are still fresh in your mind. This will save you a lot of trouble at tax filing time.

Other Considerations

Interest on your mortgage or loan is a deductible expense. However, since your interest expense is likely to be fairly consistent month to month, it isn't difficult to determine your total interest expenses at the end of the year.

If you contribute to the support of a relative, it may be advantageous to list your contribution each

(Continued to page 13)

PHILADELPHIA ACADEMY STAGES 155th ANNUAL ART EXHIBITION

The BUSIEST OF EMPLOYEES need not be deprived of the opportunity to see America's oldest annual art exhibition, so far as hours go. The Pennsylvania Academy of the Fine Arts (Broad and Cherry Streets) will open its 155th Annual Exhibition—Oil Painting and Sculpture—on January 24. Until it closes on February 28, it will be open every Saturday from 10 to 5; every Sunday, Lincoln's and Washington's birthdays, 1 to 5. Other days 10 to 5.

As an added feature it will schedule two *free concerts* on Fridays at 8:30, opening its doors at 7:30 for the benefit of gallery-gazers:

January 29—*Michael Tree*, one of America's ablest young concert violinists, and celebrated pianist, *Vladimir Sokoloff*, in a sonata recital.

February 26—*Vladimir and Eleanor Sokoloff* in a program of original works for four hands at one piano, a medium rare in the public performance world today.

Gallery Talks will be held every Thursday at 2:30 as follows:

- January 28—Morris Blackburn
- February 4—Dorothy Graffy
- 11—Raphael Sabatini
- 18—Hobson Pittman
- 25—Harry Rosin

Don't fail to visit this cross-section of contemporary American Art. Admission is *free* at all times.

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Now U. S. Savings Bonds are a better buy than ever in three important ways:

- *All Series E and H Bonds bought since June 1, 1959 now earn 3½% interest when held to maturity.*
- *Older Bonds will also pay more—an extra ½% from June 1 on, if you hold them to maturity.*
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Three big new *dollar* benefits that make it smart to buy new Bonds—and hang on to the ones you have!

But a good return isn't the only reason so many people buy Bonds. They've discovered that there's no easier, safer, more *American* way to save.



Three members of our Semiconductor Laboratories—Dr. G. L. Schnable, T. J. Manns and A. J. Certa—have been chosen for a special Glycerine Research Award. In announcing the awards the judges and awards committee stated they "were very much impressed and interested in the unique application for glycerine developed" by the three Philco-ites. The award, a special one, was officially for "The Development of Glycerine Baths for Electrodeposition of Various Low-melting Metals and Alloys."

TAXES AND YOUR FAMILY

(Continued from page 12)

month. You may be giving cash regularly, but other items such as food and clothing also count and may be important in showing that you contributed enough during the year to claim a dependency exemption for the relative. Of course, the relative must also meet certain other tests for a dependent. Space does not permit a complete discussion of dependency exemptions, but there is information on the subject in the instruction booklet you receive with your tax return. But, whether you think you will be able to claim a dependency exemption or not, list the expenses just in case.

Income Other Than Wages

You must keep a record of any additional income you receive. Such income as interest on a savings account, gambling winnings, prizes, dividends, and so on. Any additional income must be added to your wage or salary when determining your taxable income.

Always keep your cancelled checks, paid bills, and other records together. At the end of the year, simply tally up your deductible expenses and you will have most of the information you need to make your income tax filing a breeze. You will also be able to ensure for yourself the maximum amount in legitimate tax deductions.

Pot Luck Parties Cost Little Pay Premiums in Fun

Banish post-holiday doldrums in the long winter months ahead by stirring up some fun with a pot luck party. Divide the work and expense—multiply the fun—among your circle of friends.

Double the enjoyment by having a pre-party gathering. For this, refreshments are simple—pop some corn, set out a basket of apples, freshly roasted peanuts, or serve hot coffee and doughnuts. Use a pair of your shiniest saucepans or kettles to hold assignment slips. Guests draw recipes from one; the other holds slips specifying paper napkins, paper plates, table decorations, candles, favors, etc.

Let the men draw recipes and do the cooking for a change. Many men are good chefs and like cooking as a hobby. Swear everyone to secrecy about his or her assignment so that both the food and accessories will be a surprise.

Party night let each one join in the preparation fun by placing his own contribution—tablecloth, napkins, centerpiece, favors. This may result in a weird color combination—but a lot of amusement.

Casseroles are the order of the day—or night—for pot luck suppers, midnight buffets, church parties, luncheons . . . almost any type of group entertaining. Many of them may be prepared in advance, frozen until needed, then reheated. They are delightfully adaptable because there is no last minute preparation, they hold heat over a long period of time, and may be easily transported in insulated bags or heavily wrapped in newspaper.

Pot Luck Parties Cost Little—Pay Premiums in Fun
Choose from many old standbys:

- Macaroni and cheese
- Lima beans and bacon strips baked in tomato and brown sugar sauce
- Tuna fish and noodles
- Steamed Zucchini baked with Parmesan cheese
- Scalloped potatoes with ham chunks
- Shrimp Creole

Here are some you may not have tried:

HAM AND RICE CASSEROLE

- 4 cups cubed leftover ham
- ½ cup cooking sherry

- 2 eggs, well beaten
- 2 cups cooked rice
- 2 chopped tomatoes
- ½ cup diced green pepper
- ½ cup heavy or sour cream
- 2 tablespoons grated onion
- 1 teaspoon Worcestershire sauce
- 1 tablespoon grated onion
- 1 cup packaged bread crumbs
- ¼ cup melted butter
- paprika

Combine all ingredients except the last three. Put the mixture into a casserole. Toss bread crumbs with melted butter and spread over the top of the casserole mixture. Sprinkle with paprika. Bake in a 325° oven for approximately 1 hour.

Potatoes Curried

- ½ cup chopped onion
- ¼ cup butter
- 5 cups diced boiled potatoes
- 5 tablespoons flour
- 2 tablespoons tomato paste
- 2½ cups chicken bouillon
- pepper

Saute onion in butter. Add curry, flour, tomato paste and pepper. Add bouillon, stirring constantly, until thickened. Place diced potatoes in casserole and pour sauce over them. Bake in a 350° oven 40 to 50 minutes.

Cranberry Baked Beans

- ½ cup sugar
- ½ cup water
- 1 cup fresh or frozen cranberries
- ¼ cup dark molasses
- ¼ teaspoon allspice
- 1 tablespoon prepared mustard
- 1 large can baked beans

Boil sugar and water 5 minutes, add cranberries and cook until skins pop, cool. Mix molasses, allspice and mustard and add to cranberries. Put layer of baked beans in casserole, cover with half cranberry mixture. Add remainder of beans, top with cranberry mixture. Bake in a 350° oven for 30 minutes.



Hostesses and members of the committee for the Local 101 party are photographed prior to the arrival of the guests. Herbert Bernstein (fifth from right, seated) served for the eleventh consecutive year as chairman for the event. His committee included Ann Kephart, Ed Davis, Ray Wilson, and Ethel Spencer.



Members of the committee, headed by William Rambo, for the Local 102 party include Bill Hutchinson, Gertrude Duffy, Sally Cohen, Mary Margargee, Marjorie Troy, Marjorie Warrell, Leona Greene, Helen Hutchinson, Betty Fiorelli, Florence Lucas, Elain O'Mara, Irene Fallmer, Marie Buchanan, Frances Johnson, Kitty Apice, Thomas Brown.



Santa's knee was a favorite perch for the guests of Local 101 at Plant 2 Cafeteria. Jake Ewing (as Santa Claus) later presented gifts.



"Turkey is on" for the young guests of Local 101 at the annual Christmas party given in Plant 2 Cafeteria.

CHRISTMAS BRIGHTENED FOR ORPHANS BY UNION PARTIES

As in previous years, the cafeterias in both Plant 2 and Plant 50 were scenes of festivities shortly before Christmas when Locals 101 and 102, I.U.E., C.I.O., gave their annual parties for orphans of the city and vicinity.

Highlighting the Plant 2 party, given by Local 101 for the eleventh consecutive year, was a turkey dinner followed by ice cream, cake and candy. A big stage show—with considerable audience participation—followed. Herbert Bernstein, chairman of the party, presided, and Jackie Thatcher again served as master of ceremonies for the entertainment. He performed the same service at the Plant 50 party given by Local 102.

Santa Claus made an appearance at both parties and presented individual gifts to the children.

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James Clayton (as Santa Claus) bends to hear a few last minute gift requests from children attending the Plant 50 party.





WEDDED IN ENGLAND—Hal Bach, manager, general sales services, Consumer Products division, in Plant 2, and the former Jane Plant following their marriage December 19 at St. Aidan's Church of England at Burton-on-Trent, Staffordshire, the home of the bride. Mr. and Mrs. Bach spent their honeymoon on the coast of the Irish Sea and in Wales. They flew back to the States by jet.

GOLF WINNERS NAMED

The fourth annual banquet of the Plant 50 Golf Association was held recently at the Willows. The championship play off award went to Frank Morrell, of Dept. 507. Other winners were Charles Bendig, Dept. 508; Walter Holster, Dept. 536, and Cyril Cosgrove, Dept. 507.

CHRISTMAS BRIGHTENED FOR ORPHANS

(Continued from page 15)

Around 300 orphans of the city were guests of Local 102 at their party. The small guests were served by a committee from the Union with turkey, ice cream, cake and candy. At the conclusion of

RESEARCH DIVISION ANNOUNCES "FILTERSCAN," INFRARED SYSTEM

A method of reproducing electronically an image of heat-emissive targets detected by cells sensitive to the invisible infrared portion of the light spectrum has been found by scientists of Philco's Research Division.

Called "Filterscan", the system offers good picture quality with a television-type image presented in a pattern of 150 lines. The standard raster in television is a predetermined pattern of scanning-lines at 525 lines. According to Philco's IR specialists, the "Filterscan" image could be scanned at TV rates should particular applications call for higher definition.

Electronic scanning, according to physicists, is some 30 times faster than mechanical systems which use a moving mirror scanning an image at the rate of one frame per second. Rapid changes in direction or heat-intensity of a target can thus be monitored more closely.

Developmental effort in the IR field has been extensive in recent years because of the medium's "passive" nature. Active detection and tracking systems such as radar nec-

the stage show James Clayton (as Santa Claus) presented gifts. William Rambo was chairman of the party at Plant 50.

essarily use directional radio waves which are reflected from a target back to the transmitter site. Because such microwave beams may be detected, they are subject to jamming and interference. It is even conceivable that an enemy missile might "home" toward a radar transmitter-receiver.

Passive Infrared Systems, on the other hand, are immune to jamming countermeasures, and no missile could direct itself (home) toward a system which merely collects information without the need of first transmitting a radio beam.

Industry has found uses for IR detection, with monitoring of equipment which might develop damaging hot spots, for inspection of components rolling off an assembly line—where excessive heat could indicate trouble. Closely packaged electronic systems can be observed automatically for early warning of tube-destroying heat.

Possible military applications of "Filterscan" are under security wraps, but have been discussed at a recent classified Infrared conference held on the West Coast.

"Proceedings of the IRE" published by the Institute of Radio Engineers in New York, carries an article describing "Filterscan" in its December, 1959 issue.

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