

HP CREDIT UNION Questions and Answers

And Things You Should Know About "Add-on" Rates—

With more than 100 new members continuing to join the HP Credit Union each month, the credit union continues in its attempt to educate members and potential new members on how the credit union works. Here are examples of frequently asked questions and their answers.

If I make an over-the-counter savings deposit in the HP Credit Union on August 9, will I receive dividend credit from that date?

Your dividend credit would start on August 1. Deposits made by the 10th of each month receive dividend credit from the first of that same month. Deposits made after the 10th of each month receive dividend credit from the first of the following month.

If I already owe the HP Credit Union \$300 for an unsecured loan, do I have to pay off that loan before applying for another unsecured loan?

No. The credit union will refinance the existing loan by adding the new loan amount to the old loan balance and writing a new note for the combined amounts. The new note cannot exceed the unsecured loan maximum as specified on the back page of the Credit Union Handbook. A loan application must be prepared whenever applying for additional loans. All loans are subject to approval by the Credit Committee.

I'm interested in buying a new car. How does the interest rate on credit union new car loans compare with other financial institutions?

The HP Credit Union doesn't like to brag, but—It's always a good idea to shop for loan interest rates, whether it be for a home mortgage, new car, or other type of loan. Why not make a comparison or two before committing yourself to major financing such as for a new car? The HP Credit Union presently charges an effective annual interest rate of 9% on new car loans.

I was recently quoted a 5% new car loan interest rate at my bank. That's a pretty good rate, isn't it?

It sounds good, but unfortunately 5% (Please turn to page 2)

HP Dividend

Hewlett-Packard board of directors, July 22, declared a regular semiannual dividend on the company's common stock of 10 cents a share, payable October 15 to stockholders of record September 24.

THE END OF AN ERA

THIS ISSUE OF *Watt's Current* marks the end of an era at HP, an era spanning more than a quarter of a century.

It was in 1943, when the company had all of 45 people, that *Watt's Current* came into existence and it was a year later, in September, 1944, that BILL BIGLER was appointed editor. Since then Bill has turned out 322 issues of the publication and never missed a deadline. (He does admit to leaving the lens cap on his ever-present camera a time or two, but that's another story.)

On July 30, Bill—and *Watt's Current*—will be retiring from HP. To cover the company news from Palo Alto to Santa Clara a new publication, *The Peninsula*, will begin to appear next month. We hope it's a worthy successor to *Watt's Current*.

Although this marks "30" to *Watt's Current*, it is only the beginning of a new career for Bill Bigler. Bill has his good health, his considerable photographic and editing skills, and a number of projects to engage his boundless energy and enthusiasm.

With Bill goes the deep gratitude of his countless friends at HP, all of whom join us, I'm sure, in wishing him Godspeed and many, many years of health and happiness.

Dave Kirby

DAVE KIRBY
Director of Public Relations

Alcoholism Council Message for Santa Clara County

Question: What are the early symptoms of alcoholism?

Answer: These are the symptoms which are largely invisible to others because most of them manifest themselves as feelings rather than behavior. The major and initial one is the reaction of the individual to alcohol when he first discovers it: *it's magic*. It performs miracles for him. It magics away his discomforts, his anxieties, his fears. It gives him instant self-confidence. And so it immediately becomes terribly important to him. He *needs* it. It makes him feel like the kind of person he wants to be. There are many other symptoms, a number of which involve behavior, but they can all be lumped together as an increasing dependence on alcohol to help him do what others are doing, or learning to do, without a chemical aid, i.e., solve the problems of growing up, whether they are of shyness or boredom or frustration or lack of confidence or any other problem of living.

Motivation—

Part of the obsessive nature of alcoholism is that the sick person usually believes there is nothing wrong with his situation which he can't handle. Family, friends, and working associates often go along with him. Experience has shown, however, that family, friends, and co-workers can, if they are knowledgeable about alcoholism, motivate the sick one to get help by allowing him to face the full consequences of his activities.

Motivation, however accomplished, consists in cracking the alcoholic's illusion that he doesn't have a problem he can't handle by himself.

A quick formula for motivation is to begin with a reminder that alcoholism is a progressive illness and that unless drinking stops, one of three results will occur: (1) death from physical problems; (2) insanity from brain damage; or (3) suicide from depression.

The alcoholic may choose to continue drinking, toward one of those three ends, or choose to stop drinking and regain a meaningful life. When he chooses to stop drinking, many kinds of help are available. AIC Help-Line volunteers can furnish information about community resources for the problem drinker or his family, according to the specific need:

24-HOUR HELP-LINE: 241-1771

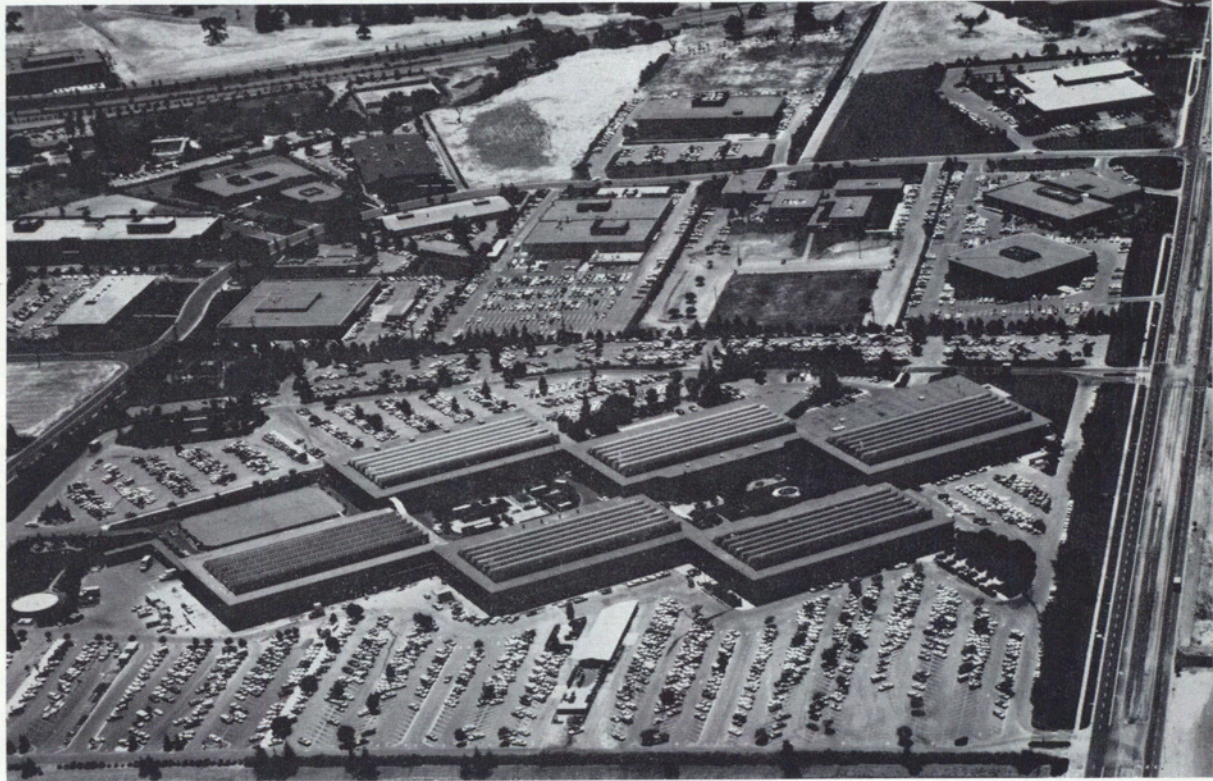


Photo by Aero Photographers

PICTURED ABOVE is a recent aerial photo of HP's Stanford plant, one of the largest industrial facilities in the City of Palo Alto. Located on 47 acres of land in the Stanford Industrial Park, the plant contains 690,000 square feet of space in nine adjoining buildings and is the workplace for over 3,000 HP employees. The site contains approximately 12 acres of landscaping (including over seven acres of lawn) and 26 acres of parking area for over 2,400 automobiles.

The plant was built in stages with the first unit, Building 2, completed in March, 1957. Following this, Building 1 was completed in January, 1958; Buildings 3, 4, and 4A in the spring of 1960; Buildings 5 and 6A in early 1966; Building 1A in the summer of 1967; and Building 6 in January this year. At the present time, the Stanford plant is utilized as the corporate headquarters and contains major corporate functions as well as the Microwave Division, the Manufacturing Division, HP Laboratories, and the Electronic Products Group offices.

Help Wanted

See Myrt Ebright—

Are you proficient in a foreign language? If you are, how about helping us in our international effort!

You may have read one or more of the articles which have recently been printed regarding the Hewlett-Packard television studio and our videotape program in Building 11. With the continued growth of our international markets, we need to translate an increasing number of videotapes into various foreign languages.

An example of this procedure is the information on the new 9800 Calculator Series Model 10, which was announced simultaneously to people in our domestic and international offices on July 1 through the use of videotape. In addition to English, tapes were translated into Spanish, French, German, Italian, and Portuguese.

If you are proficient in any foreign language and would be interested in transcribing videotape scripts, please call the Corporate TV Studio at ext. 3380. You will probably be asked to make an appointment to see how your voice records.

Later—though we can't guarantee you a trip to a foreign country—your voice may do considerable traveling. Through your translation you will be helping inform people throughout the world about the excellence of Hewlett-Packard.



YOU—Thru United Fund —Support 100 Agencies

By KENT WIEDEMANN

A Sound Investment—

An article in the May issue of *Watt's Current* explained that each HP division manager in the Bay Area had already selected a 1971 United Fund campaign chairman. These divisional chairmen have now completed team visits to a number of the agencies that received financial assistance from the United Fund.

Doug Scribner, HP's Bay Area chairman, said that "effect on our campaign chairmen was tremendous! Visiting these agencies and personally observing how they are serving the needs of people in our community has really enthused us all."

The chairmen have prepared detailed reports on their findings which they are anxious to share with anyone who is interested. Contact them for copies of this information.*

There are nearly 100 agencies that are supported to some extent by your contributions to United Fund. Their efforts are concentrated in the following areas: physical and mental health rehabilitation, counseling, child care, social service, and youth guidance. Through visiting some of them, our campaign chairmen learned that several quietly committed HP employees are conscientiously serving as volunteer workers in various programs such as Boy Scouts, Red Cross, Friends Outside, etc. Still others have personally benefited by the services of UF agencies.

A Personal Experience—

Jim Phelps, Personnel Manager of EPG, related an experience he had with the Red Cross, a UF-assisted agency. In February, 1968, Jim's mother was lying in a hospital in Massachusetts gravely ill. Jim's brother, a soldier, was then in the midst of the Tet offensive in Viet Nam, and knew nothing of his mother's condition. Jim knew his brother would want

(Please turn to page 2)

Bill Hewlett to Receive WEMA Award Medal

WEMA, the Western Electronic Manufacturers Association, has chosen *William R. Hewlett*, president and chief executive officer of Hewlett-Packard Co., to receive its 1971 medal of achievement.

The award is based on significant contributions to the advancement of electronics in the West.

WEMA President R. C. Mercure Jr. will present the award August 24 in San Francisco at the opening day luncheon of WESCON, the Western Electronic Show and Convention.

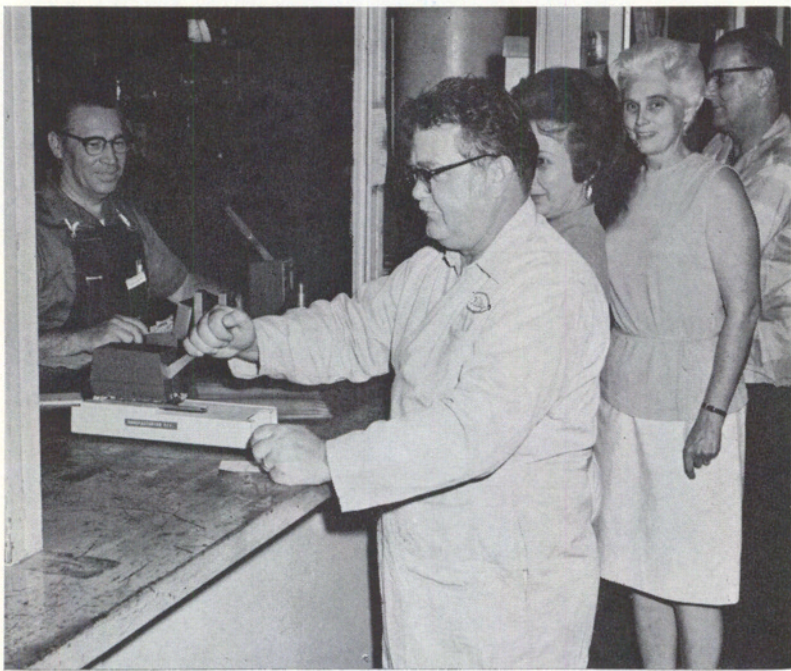
The medal cites Hewlett for outstanding leadership in electronics management and notable contributions as an educator, civic leader and humanitarian.

Hewlett entered the electronics industry in 1939 when he founded Hewlett-Packard in Palo Alto with *Dave Packard*, a Stanford University classmate.

The two young entrepreneurs played major roles in 1943 in founding WEMA. Packard, now U.S. Deputy Secretary of Defense, was honored with the WEMA Medal of Achievement in 1960.

SAVE AND BORROW

AT THE BEST PLACE
YOUR CREDIT UNION



CHARGE IT, PLEASE!—CLIFF JAKEL, control supervisor in Building 4L, has a unique credit card system operating in checking out production jigs and fixtures for the machine shop. The idea was contributed by CLINT SIMON about five years ago, and has been enforced recently by Cliff to control the handling of the tools. He has a complete Kardex system with all the tools numbered. Each person who borrows a fixture brings his "charge card" that has his name, clock number, and location code on it. It works on the same principle as charge plates; when an item is returned, the account is credited as paid. The system has been very accurate and the rate of misplaced tools has dropped off considerably because the person is traceable and can be notified immediately. In photo above are, left to right: GEORGE SHIELDS, tool crib attendant, serving customers BILL KELLY, JO KEEN, MADELINE McNITT and RAY TAYLOR.



SHOWN RECEIVING "Specialist Machinists' Certificates," an HP informal training program in the Numerical Control area are, left to right (in shop coats) BOB PURINON and LARRY TOMINAGA. The recipients are being congratulated by, left to right: JOE MONIZE, supervisor of Numerical Control area; ART TURNBULL, shop Manager; and FRANK GERRITY, Section Manager.



CORPORATE MARKETING Communications Department welcomed PAT POWLEY to U.S. citizenship with the Stars and Stripes and all the trimmings. Pat is STEVE DUER's secretary and came from Oxford, England; she has been with HP for six years. With all the festivities around her, Pat managed to "tend" to her business by answering the phone and keeping her mind on work first. Pictured, left to right, are: MARGE MARTICH, Paul Bradley (of the Robert Ebey Co.), COLETTE BATES, PAT LYNCH, JIM KINNEY, SUZANNE DEL BONO, Pat, and Steve.

The United Fund

(Continued from page 1)

to be at his mother's side in that critical hour, so he called Red Cross to see what could be done.

Red Cross got the ball rolling in an instant. They cut Army red tape and contacted Jim's brother's unit in Viet Nam. Still in his combat fatigues, Jim's brother was immediately put on a plane bound for the States. Just four days elapsed since Jim's call to the Red Cross resulted in his brother's being notified of the family crisis and making the 10,000-mile trip from the battlefield to his home in Massachusetts.

Dave Bentley—Active Volunteer—

Another enthused story comes from *Dave Bentley*, Finance Manager at HP Labs. Dave is an active volunteer with Friends Outside and the Alviso Community Day Care Center, both UF member agencies.

About Friends Outside, which works with prisoners and their families, Dave says the primary emphasis is "to give the recently released men someone to relate to when they return to the community. Many such men have no family or contacts in the immediate area and really need someone other than a parole officer to turn to for advice and assistance." The objective is to enable the ex-offender to become an accepted, productive member of the community. Dave says this about his contact with Friends Outside:

"You can't help being impressed with the dedication and enthusiasm that the staff, paid and volunteer alike, bring to their jobs. They really care about the people they work with! For the last two years I have helped to collect and distribute food, clothing, and furniture for the families of men serving terms in the county jail or state prisons."

Dave serves as treasurer and financial brain to the Alviso Community Day Care Center, which provides day care services to children aged 2½ to 6½ years.

"Tell Your Story"

The chairmen are anxious to know if anyone else at HP has had personal contact or knows of someone who has had with any of the UF agencies. If you have had such experience and would be willing to share it, contact your division personnel manager as soon as possible to tell your story. With your permission, he may use the story in a company publication from which all of us may learn more about United Fund and the vital things it does for people and the community.

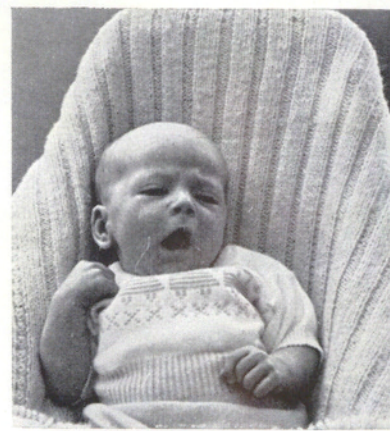
Question and Answer Session—

A United Fund Fair will be held on September 8, just three weeks prior to the beginning of the campaign. At this time, several representatives from UF-assisted agencies will describe their service programs to all of the campaign workers from the Bay Area divisions. The agency representatives will answer any questions the campaign workers may have about how our United Fund gifts are used and why they constitute a sound investment in the future of our community.

All this is being done so you can get true and educated answers to your questions when UF campaign workers approach you this September and ask for your generous support.

**Chairmen Listed—*

The chairmen are:
Dave Smith, Santa Clara
Harold Kramer, Microwave
Sharon Butterfield, Intercontinental Sales Region
Dick Lorien, Cupertino
Bob Nordman, Mountain View
Stan Whitten, Delcon
Bob Fuentes, CSC
Gaylan Larson, Manufacturing
Bill Taylor, Corporate
Joe Schoendorf, AMD/DAS
Dennis Paul, AMD/ATS
Norm Zinker, HPA



"AH-H-H, ANOTHER short pants. How about long pants for a he-man!" Little Timothy Andrew seems to be saying that as his pretty mother, MARY JANE ROBBINS, holds one of the many gifts presented to her at a recent baby shower. Timothy was adopted on May 24 by Mary Jane, formerly lab secretary to Physical Research Lab director LEN CUTLER of HP Labs, and by STAN ROBBINS of Building 3 Lower BAEDP. JOAN FORSTER and AIDA NELSON of HP Labs hosted about 25 persons who attended the luncheon in the 3 Upper cafeteria. ANN MITCHELL, secretary to DON HAMMOND, lab director of Physical Electronics Lab, took the pictures.



ON JUNE 28, DOMINIC BENANTI was the proud recipient of an Electronics Machinist certificate. He earned his certificate by taking the required job-related courses and by operating precision equipment such as the Jones & Lamson finishing machines, Hardinge chuckers and engine lathes, plus the small Hardinge turret lathes. Pictured, left to right, are MIKE FUENTES, Dom, and JOE SPINOZZI.

COMMUNITY COLLEGE CONCEPT

Continues at HP—

This fall, the Hewlett-Packard Quality Assurance Managers Association will sponsor two QC courses fully accredited by DeAnza College. The classes will be held in Palo Alto according to the following schedule:

Master No.	Course	Instructor	Quarter Units	Days	Time	Room	Location
CG04-84	QC 63	Ed Doust	4	MW	4:30-6:30	C/R44	1601 California
CG05-83	QC 64	Al Wilson	4	TTh	4:30-6:30	C/RA4	640 Page Mill

New and continuing students must request a packet for mail registration before August 26. On campus registration for all students is as follows:

(Last Name Initial) J - R, September 7; A - I September 8; and S - Z, September 9.

Further information regarding above courses is available from Division Q.A. Manager.

HP Credit Union

(Continued from page 1)

interest new car loans have not been available for a few years. The 5% figure quoted was an "add-on" rate. On a 36-month loan, the 5% add-on rate would be translated to an effective annual interest rate of 9.31%. The Truth-in-Lending Law makes it mandatory for financial institutions to state the effective rate of interest on loans.

I'm still a bit confused by the difference between add-on and effective (true) interest rates. Can you illustrate?

Let's assume you borrow \$2,000 for a new car payable over 36 months at an add-on rate of 5%. The interest is then computed as follows: \$2,000 x 5% x 3 years = \$300 interest. The monthly loan payment is computed as follows: \$2,300 ÷ 36 months = \$63.89. But, because you were making monthly payments, you did not have use of the \$2,000 for the full three years. Based upon the amount of borrowed money you had available during the three years, the 5% add-on rate is translated to 9.31%—the true annual interest rate. The HP Credit Union will always quote only the true annual interest rate for loans.

Is the credit union a part of Hewlett-Packard Company?

Not directly. The credit union has received strong sponsorship from the management of Hewlett-Packard Com-

LETTER BOX

Dear Editor:

I was happy to see the "Endangered Species" article in the July '71 issue of *What's Current*. This kind of journalism, if approached responsibly, can certainly stimulate HP employees (and others) to do things which will enhance the environment of the community. I would hope to see more articles of this sort in the future.

However, I feel that it would be a great wasted opportunity if someone in the appropriate position did not take the next obvious step of placing a bucketful of white oak acorns in each lobby for free distribution to employees. If this is not done, the impact of the article will certainly be lost on the great majority of the readers.

Regards, BOB HAY

Editor's Note—Dear Bob: You will be pleased to observe buckets of acorns (*Quercus lobata*) placed in HP lobbies in the very near future, contributed by fellow ecologists such as Hay.

pany, but is organized as a separate business entity under a Federal charter received from the National Credit Union Administration. The present credit union field of membership consists of employees of Hewlett-Packard Company who are headquartered in Santa Clara County.

IN APPRECIATION

Marvin and I wish to thank our many friends at all divisions of HP for the many kindnesses expressed at the time of our son's untimely death.

NELLIE and MARVIN MONSEES

Best Picnic Ever

A SPECIAL THANKS to everyone who helped out in making this year's Corporate picnic an even better one.

RICHARD GOODELL, *Chairman*
(1A Lower)

wescon

San Francisco, August 24-27, 1971



HELPFUL HINTS

By JEAN CREELMAN

To Bolster the Exchequer—

Money has become a prime topic of conversation for many of us these days. Here are some tips that I'd like to pass along for you to apply to your own needs.

Since you can't trim 10 percent from all items in the budget, the grocery bill is usually the first item to be cut, so:

Linda Vista Foods at 1004 Stockton Ave., San Jose, has some good buys on dented cans. Call 297-3521 for a price check, and to see what items are available.

Orowheat bread has two day-old bread stores: one on Maude Ave. in Sunnyvale, the other at 2375 Ash St., Palo Alto. Wonder Bakery is located on De la Cruz Blvd. in Santa Clara. There are some others; if any of you know where they are located, let me know and I'll pass on the info.

Mercury News Good - Things - to - Eat Column has fruits that you can pick yourself when they are in season. Frozen or canned, they sure look good on the table later.

Watching the grocery clerks as they check your groceries eliminates mistakes and makes sure you get value for a sale item that may be a one-day special or one they've forgotten.

Gallo Macaroni Company, 415 Willow St., San Jose, has five-pound boxes of macaroni products at a good saving. The food coupons that are found in package ads and sometimes come in the mail, are a real savings; clip them to your grocery list or you may forget to give them to the clerk.

Some grocery shopping tips: Plan meals ahead; make a list and buy only what is on the list. Allow a specified amount of money to be spent and keep track so you stay within that limit. Impulse buying wrecks a budget. It is better to go to the store right after you've eaten, not before. Statistics show you'll spend 7 to 10 percent more if you're hungry.

Now to Some Other Items—

Panty hose can be a big expense for a working gal. Buy several pair the same color; when one panty leg gets a run, cut it off and wear two pair together. The Simley stockings that some of the girls are selling have no heel so that there is no definite front or back to them and they can be easily worn with each other. Penney's has some stockings that don't run.

Sears has some boys' socks; two kind —79¢ and 98¢ a pair—that are wearated for a year. Buy several pair of the same neutral color and date your receipt. Write the color on it and file it. Being all the same color, you'll have a pair right down to the last two.

A good investment is a file box to keep all receipts. As money gets tighter, everyone gets more careful, even stores. Penney's, Emporium, Sears, Macy's, and Ward's do guarantee customer satisfaction. They have, however, begun to insist on a receipt. If you are not satisfied, be sure the man over the department involved, or the sales manager of your store, knows your problem. A part-time clerk cannot really do much.

Since we are going to have a little more spare time, we can do those odd jobs around the house ourselves. Putting up a hem or repairing a seam can save the cost of the cleaners or a seamstress doing it.

Putting in even a small amount of garden can give fresh vegetables and cut grocery costs. The library is a good source of information. Borrow that book on home sewing, gardening, home and car repairs, before buying. You may find that you won't use them often enough to justify buying them.

Consumer Helps—

Consumer digests, also available at the library, have a lot of information in them. They aren't always completely correct, but they are good guidelines. Did you know that turkey at 49 cents per pound costs 79 cents a pound when you consider how much of it is bone? Simple Simon pies have more fruit in their filling, thereby making them a better buy than some other cheaper brands.

Do-it-yourself cleaners are a great way
(Please turn to page 4)

By GEORGE CLIMO

Security at 62—

Many of us have aversions to certain things, usually irrational. One of mine is every fourth birthday, or every third or second, depending on my fortunes with the California Highway Patrol. This was the year to renew my driver's license. It's not the tax nor the exam nor the principle of licensing drivers that bothers me; it's the standing in lines—usually several. On top of this, even the initials—MVD—sound faintly unpleasant. For years I've avoided waiting in line for new license tags each January by mailing the tax, and now it's even better with Master Charge. But those lines every fourth year have always seemed the epitome of government regulation—friendly, but time-consuming.

How refreshing then, a recent phone call to our local Social Security office in Palo Alto. They recognize and encourage the time-saving of phoning when you have a question. The assistance was very helpful, and the news itself is worth passing on.

For those retiring before age 65, they are encouraging early application for Social Security benefits. Early application may be made if retiring any time after age 62. The monthly check will be somewhat less, but received over a longer period. And it now takes 15 years after age 65 for the full monthly benefit total to equal the lesser payments received over the longer period from age 62. A bill in the hand is worth two in the Treasury!

You must have questions on Social Security and they love to hear from you. If you feel Pacific Finance is great, try the local S.S. office: *incredibly friendly!*

* * *

A genius is a crackpot who makes a screwball idea work.



CONGRATULATIONS TO NOZER HALADWA-LA, Cost Accounting Manager of Cupertino Division, who was elected National Director of California Jaycees at the recent state convention. His special assignment is Health and Safety Portfolio for the entire state of California, and in an administrative capacity he is the National Director for the Central California area.

During the past year Nozer has served as Governor for District 4 of the Jaycees, and was presented the award for "Outstanding District Governor of the Year." He also had the honor of having the "Outstanding District" for two quarters during his term. Nozer organized two new locals while he was governor; one at Soledad, the first institutional chapter to be formed in the state. Some of the inmates participating in the Jaycee program are now working directly with the schools and community groups on the problems of drug abuse and crime prevention. Undoubtedly, Nozer's tireless efforts on this project helped win him these awards.

HISTORICAL PHOTO SERIES



CAPTAIN BILL HEWLETT (later colonel), returning from a mission to the South Pacific, dropped by to say "hello" back in April of 1944. Hewlett had been ordered to the South Pacific to evaluate the performance of Signal Corps equipment and to report on any difficulties traceable to defective electronic instrumentation.

"Up at Munda," Bill said, "I found one 205A which had fallen into the ocean. Upon rescue, it was dried out and the condenser changed, whereupon it functioned perfectly. Apparently the glyptol which HP applies is an insulating factor and a very good one at that, as otherwise the many fine wires in the attenuator would have corroded beyond repair."

"The men in this area have so little," Hewlett related, "that even the simplest repair parts are lacking. It takes from 90 to 100 days to obtain material from the States into the South Pacific area. So everything we send them is most fully appreciated. We have even received letters requesting us to bore holes in the bottoms of chassis so that water, collecting through condensation during the humid night, might escape. Here the humidity is such that some of America's best instruments, instruments that perform splendidly in the U.S., will stop functioning in one hour under jungle conditions. Therefore, it is imperative that our test equipment be of the very best that we can possibly make."

"Our equipment is and will be subject to very harsh treatment. It is often dumped out from large cargo nets along with much heavier pieces of material. Much of it is literally floated ashore in rubber bags; hence, the need for such unusual care in waxing the cartons for overseas shipment. Our equipment follows the assault wave very closely, and is therefore right in the thick of the fight, actually being of a direct benefit to our boys in the very midst of battle."

"At Guadalcanal, Munda, Hawaii, and elsewhere, our equipment was well liked," Captain Hewlett declared. "We are building up a good reputation. These Signal Corps men are coming back and they will want HP instruments—instruments that they can rely upon. So we have a reputation to uphold. We, therefore, must produce even better units so that our equipment will stand up under the most impossible of climatic and otherwise harsh conditions."

In historical archive photo, above, left to right, may be seen: Betty Ferguson (Ledoyen), Marge Norman, Cap. Bill, Danny van Pelt, Cillie, Pansy Malmgren, Nora, Myra Lipsett, Charme Franklin, Mildred, Grace Pingree, and Jean Siebert.



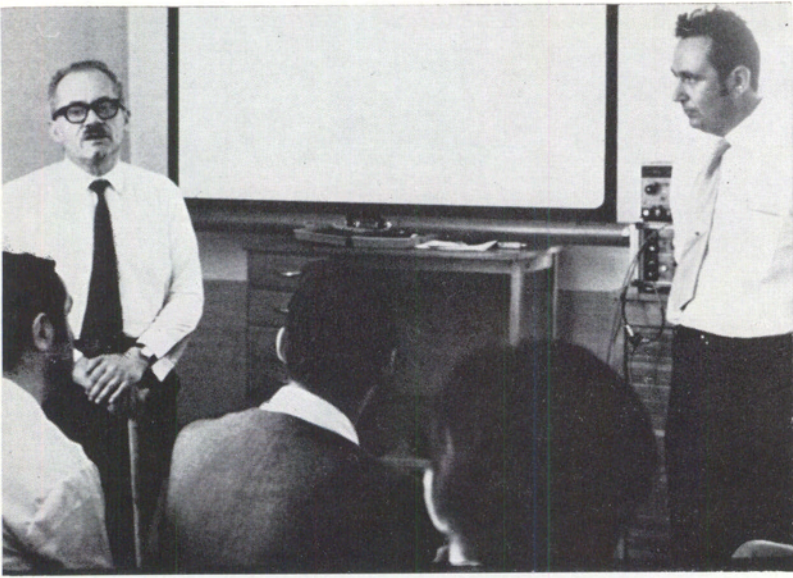
Photo by Art Wong

JIM HERLINGER, project leader for the 7900 Disc Recorder, wanted to get "a few friends" together who had been involved in the research and development of Mountain View Division's newest product, the 7900 Disc Recorder. The group consisted of people from every area from the Engineering Model Shop to the buyers who procured inventory for the pilot run. As we waited to take a picture of the group, more and more people came filtering out of the door, which certainly indicates that the disc project was a true team effort.



PICTURED ABOVE are new graduates from HP's apprenticeship programs. Left to right, they are: MEL BYRNES, product line manager in Mountain View Division; MIKE WIDBY, graduate of electronics technician program, now with Mel doing production testing of portable instrumentation of tape recorder Model 3960A; Vice President RAY WILBUR, who presented the certificates; JEAN CREELMAN, also an electronics technician; JESS VALENTINE, her supervisor in Santa Clara Division; and MERWIN L. JOHANSEN, graduate of the journeyman machinists program, who is working for FRANK GERRITY of the numeric control area. Not pictured (away on vacation) is MIKE LEWIS, experimental machinist, who is working for GORDON SMITH at Mountain View in the model shop.

Jean Creelman is the first woman graduate of HP's electronics technician program. She was with HP for a year and a half before starting on her four-year apprenticeship program. She has six children; two daughters are married and she has one grandson, aged 2 1/2 years. Jean started in the program at 32 years of age and, when asked how she did it, replied, "Keep your goal in mind." She is now in the Integrated Circuit Department.



STEVE ADAM (on right in photo above), Chief Microwave Division Engineer, recently returned from the International Electrotechnical Commission (IEC) Technical Committee #66 (TC-66) Plenary Meeting held in Stresa, Italy, May 10-22. In photo, Prof. George Almassy, department head at the Research Institute for Telecommunications, introduces Steve as speaker at a lecture held at HP's Budapest Service Department, where Adam discussed microwave measurements, dealing with modern techniques, and a separate lecture on the impedance probe, applications of network analyzers (8407), and especially questions which were raised on attenuators, due to a recent article by Steve which appeared in the "HP Journal." The impedance probe and its application as a demonstrator of transmission line properties and other impedance relations, including negative resistance of tunnel diodes, really captured the group's admiration, and Steve relates he was barely able to get the equipment away after 7:30 p.m. that eventful evening.



BURIED TREASURE. Just as there is "more than one way to skin a cat," there is also more than one way to make productive use of formerly useful but now unneeded materials. This was discovered during the week of July 12 when nearly 5,000 feet of 500 MCM copper electrical wire was removed from underground ducting that ran from Building 3L to the southwest property line of the Stanford plant. This cable was originally installed in 1961 as the main electrical feed to the plant, but was replaced by larger service in 1966 as Buildings 5 and 6A were added to the complex. No longer needed in its underground location and unusable elsewhere, the cable was removed by GENE FORRESTER's Technical Maintenance and DICK ELY's Building Services people at a cost of \$300. It was then taken to a scrap dealer who weighed it and wrote a check payable to Hewlett-Packard for \$1973.70!



FISH FRY, ANYONE? BILL LANDIS (right), of Machine Shop Inspection, Cupertino Division, and son landed these magnificent sailfish at Mazatlan, Mexico, on April 12. Bill had his fish mounted and it's now hanging—all 85.9 lbs. and 7'10"—at AMD Division, 7B plant. His son's sailfish was even larger: 98.3 lbs. and 8'6" in length. Good show!

New Generation Calculator

"An Entirely New Approach"—

A new desk-top calculator with six times the memory capacity of comparably priced units, and the first to use plug-in function blocks to expand its operational capabilities, has been placed on the market by Hewlett-Packard, it was announced by Tom Kelley, general manager of HP's Calculator Products Division.

The new Series 9800 Model 10 calculator is smaller, lighter, and faster than any in its class now on the market. Optional accessories are available to expand its memory, customize its keyboard, extend its input/output capability, and provide problem solutions in words, numbers, drawings, or a combination of all three.

"The Model 10 represents an entirely new approach to calculating systems. The basic calculator is a powerful computational tool, and accessories and peripheral products allow a customer to tailor the unit to his own unique needs. The Model 10 is virtually several machines in one," said Kelley.

Full System—

"Nearly any user—businessman, scientist, engineer, or statistician—can, in effect, design his own personal calculator by customizing the machine's capabilities," Kelley added.

The basic Model 10, with 51 registers and 500 program steps, is priced at \$2,975. It can perform all basic arithmetic functions: addition, subtraction, multiplication, division, and square root. Only one keystroke is required to square a number or get its reciprocal. Programming is simply a matter of setting the Model 10 to the program mode, then pressing the keys in the desired sequence. No special language is needed.

HP-designed function blocks (read-only memories) plug into the top of the calculator to provide special capabilities. Each block, about the size of a deck of cards, has its own keyboard template that slips over 15 keys to define their functions. One function block provides alphabet and punctuation printout so that a user can easily identify information and print accompanying program steps and instructions.

Functional Blocks—

A special user-definable block allows a customer to designate functions that apply specifically to his profession. Single keys may be programmed to perform specific calculations and the programs may be changed at any time. Other function blocks provide mathematical and statistical programs.

Many problems can be solved with a single keystroke on the basic Model 10. More complex problems—such as the solution of as many as 17 simultaneous equations—are handled by recording data and program steps on small magnetic cards that slip into the machine.

The Model 10's built-in thermal



NEW GENERATION. Hewlett-Packard's new Series 9800 Model 10 programmable calculator has six times' memory capacity of comparably priced units, and is first to use plug-in function blocks (about the size of a deck of cards) to expand operational capabilities. Model 10 has wide range of optional accessories to enable user to tailor unit to his specific needs. Basic calculator, which sells for \$2,975, has 51 registers and 500 program steps. As a teaching aid, the 9800 Model 10 is designed for broad application in mathematical, engineering, and scientific education and related fields.

printer is the only one on the market capable of printing full alphanumeric information when the "Alpha" function block is plugged in. Light emitting diodes are used in the calculator's display panel.

The new HP Series 9800 Model 10 uses advanced MOS/LSI technology to help achieve reliability and high performance in a small package. The unit is 5½ inches high and weighs only 34 pounds. First customer deliveries are scheduled for October.

Product of Loveland—

The Model 10 is manufactured and marketed by HP's Calculator Products Division, Loveland, Colorado.

* * *

There's only one thing left that will give you more for your money than it did ten years ago—the penny scale.

"I'm Fine"

There's nothing whatever the matter with me,
I'm just as healthy as I can be.
I have arthritis in both my knees,
And when I work I wheeze.
But I'm awfully well for the shape I'm in.

Arch supports I have on my feet,
Or I wouldn't be able to be on the street.
Sleep is denied me, night after night,
And every morning, indeed I'm a sight.
My memory is failing, my heart's in a spin,
But I'm awfully well for the shape I'm in.

The moral is, as this tale I unfold,
That for you and me, who are growing old,
It's better to say, "I'm fine," with a grin,
Than to let 'em know the shape we're in.



PICTURED ABOVE are the European Sales Managers, joined by KUNI OKA (YHP), and TONY JOHNSON (HP Canada), who were in Palo Alto for a recent Sales Management Conference. In photo, left to right, are: PAIT MANN, Microwave Division secretary; EMILE VAN REEPINGHEN, Brussels, Belgium; ROGER ELSTAD, Haslum, Norway; JAN SCHAPERS, Amsterdam, The Netherlands; DAVID BALDWIN, Slough, United Kingdom; KUNIHISA OKA, Tokyo, Japan; AURELIO PESSINA, Milan, Italy; TONY JOHNSON, Pointe-Claire, Canada; KLEBER BEAUVILLAIN, Orsay, France; PETER KOHL, Frankfurt, Germany; DON WOLF, Electronics Marketing Manager for Intercontinental Sales Region; CHUCK WILLIAMS, Geneva, Switzerland; and ROBIN MERCER, Microwave Division secretary.

Helpful Hints

(Continued from page 3)

to save. Find out from the manager when they change the cleaning solution; do yours as soon after that as possible. If you have trouble with garments keeping their shape, try sending them to the cleaners every other time they need clean-

ing. Leave them hanging up so they don't develop unnecessary wrinkles. Caution: Don't leave anything in pockets; one of my girls left a lipstick and mascara in her pocket and the result was disaster!

* * *

Man: the forest prime evil. (Wall Street Journal)

PINK

By JENNIFER BURELLA
(8-year old daughter of "Sandy" Burella, 2L)
Pink is like a rose
Or a sunset sky.
And pink is a butterfly.
Pink is spring.
And pink is a flower just for me.
Pink is a pink jellybean in a bag.
Pink is a soft rabbit.
And pink is a flutter of a bird's wing.
And pink is a heart full of love.

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