

PULSE

FAIRCHILD WESTON

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FAIRCHILD WESTON SYSTEMS, INC.
DATA SYSTEMS DIVISION
P.O. BOX 3041
SARASOTA, FLORIDA 33578



NEWS ABOUT DATA SYSTEMS DIVISION

VOL. VI, NO. 1

JANUARY, 1984

LOCAL ENGINEERING EDUCATION PROSPECTS ARE INVESTIGATED

For the past six months Technical Director Bill Waggener has been actively participating in a Bi-County Engineering Education Committee which is attempting to establish an Engineering curriculum at the Sarasota campus of USF.

"The Committee has clearly established a need for undergraduate, graduate and special workshops in several Engineering disciplines, and is working through Dean Robert Barylski at USF-Sarasota to try to obtain funding for a program on the USF-Sarasota campus," Waggener reports.

"Although establishing an Engineering program locally will be a long-term project, I am optimistic that a limited program might be started as early as the fall of 1984," Waggener said.

The needs of the area and primary interests seem to be in Electrical Engineering, Mechanical Engineering and Computer Science, and the first courses offered will probably be in these areas. Both undergraduate and graduate level programs will eventually be offered, together with special workshops designed to address specific Engineering topics, Bill Waggener said.

In January of this year the first courses to be offered under the Florida Engineering Education Delivery System (FEEDS) were started in the Tampa Bay area. The FEEDS program is a cooperative effort of four Engineering Colleges, and offers graduate Engineering programs in Electrical and Mechanical Engineering with a wide range of options. The FEEDS courses are offered both through live instructors, video taped courses, and via microwave link from USF.

"There is an excellent possibility that this program can be extended to Sarasota in the Fall, offering our Engineering personnel the ability to pursue graduate programs without having to travel to Tampa," Bill said.

Although these ambitious plans require funding from the State, Senator Pat Neal is an active supporter of this program and expresses considerable optimism for its success, Waggener said. Bill Waggener will continue to participate in the local Steering Committee and will provide periodic updates on the progress of this program.

CREDIT UNION REPORTING SUCCESSFUL 1983 RESULTS

Year-end results for the Employees Credit Union show the group has had a successful year, with assets up 5%. The Board of Directors declared a 7% annual dividend on shares to members.

"The December dividend amounted to over \$15,000, and when combined with the June dividend of over \$14,000, made a total of over \$29,700 in dividends credited to members' accounts," Treasurer Ed Annaratone reports.

Assets for the Credit Union have increased from \$581,487 to \$614,779 at December 31, 1983. Membership was over 570.

The 17th Annual Meeting of the Credit Union will take place on January 31, at 4:30 p.m. in the Cafeteria. All members are invited to attend this Annual Meeting.

The Credit Union plans to apply to the State for formal approval to change its name to Fairchild Sarasota Employees Credit Union.

NAVY PLACES ORDER FOR NEW PCM SYSTEM

A contract for a Telemetry Decommunication and Processing system has been awarded to Fairchild Weston's Data Systems Division by the Naval Missile Range Center at Pt. Mugu, California. Value of the contract is over \$950,000.

The equipments will include our Model 715 Processor, and other 700-series PCM equipment, together with a DEC VAX-11/780 computer. Carl Steineckert, Dick Vorce, and Earl Studenwalt were among the members of the proposal team for this new business.

OUR SOFTBALL TEAM HAD A GREAT SEASON

Fairchild Weston's Men's Softball Team completed regular season play on December 21 with a record of 12 wins and 4 losses to capture the Division's impressive First Place trophy. In the playoffs, the team took two of the four games to win the runner-up trophy. Congratulations on a great season!

FIELD SERVICE ORGANIZATION MAKING SOME NEW IMPROVEMENTS

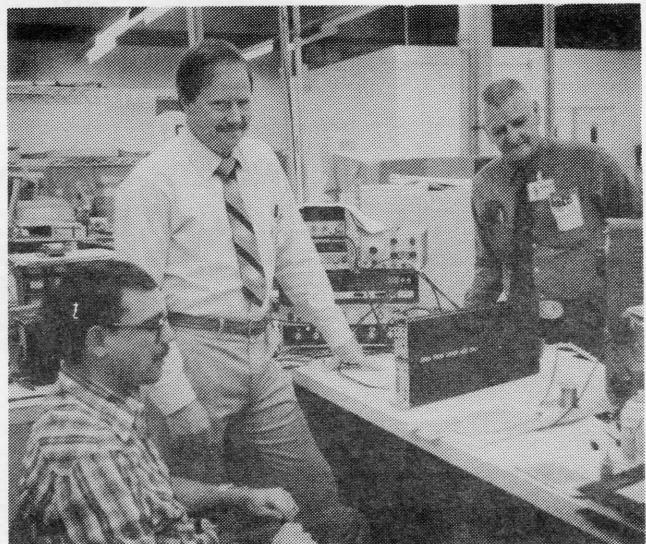
Plans are underway to establish a Fairchild Weston Data Systems Division Service Office in the Cape Kennedy area to provide closer support to NASA-Kennedy Space Center for the wide variety and large quantities of our equipment at NASA-KSC.

Field Service Technician Tom Tatman is transferring from NASA-Lewis, Sandusky, Ohio, to the Cape Kennedy area, after spending the past two years on the NASA Wind Turbine program. Tom is currently in-house for additional training on a variety of equipments and systems before relocating to the Cape Kennedy area.

In another recent move Marlin Beer has relocated from the Sarasota plant to California, where he has assumed the responsibilities of Manager for Western Area Field Service for Instrumentation Recorders and Telemetry. He is based in the Lancaster, Calif. office. The Western Area consists of the region west of the Mississippi.

The Field Service organization is also improving the equipment repair center in our Huntsville, Alabama, office to expedite repair service for customers. Field Service Technician Frank Wakefield will continue servicing older EMR equipments, and will also be working with in-plant

Test Engineers to set up an Automatic Test System in Huntsville to facilitate servicing equipments such as the Model 420 Signal Conditioners, and other equipment.

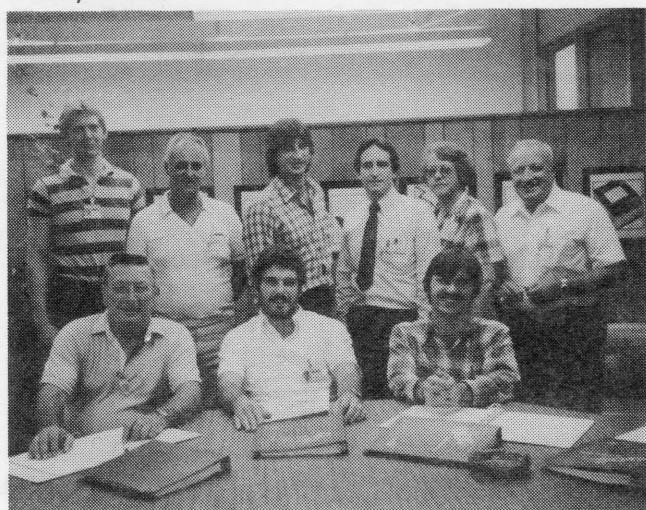


Phil Luquette (seated), Tom Tatman and Frank Wakefield with Model 420 Signal Conditioning Amplifier.

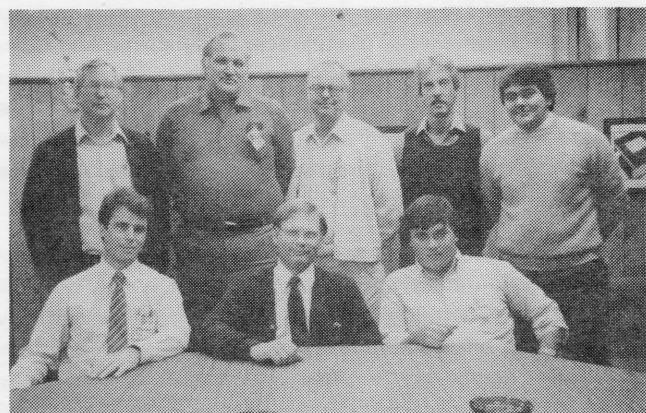
TWO NEW QUALITY CIRCLES ADDED TO CIRCLE PROGRAM

With the addition of two new Quality Circles during January, our Quality Circle program has grown to 14 active Circle groups, and 106 active members.

The two newest groups represent the Design and Drafting area and our Manufacturing Engineering Department. Here are photos of the latest additions to our growing group of Quality Circles.



The FINE LINERS, representing Design and Drafting: seated, Don Norris, Todd Brandehoff, Gary Fuller. Standing are Paul Coyas, Ken Clair, Paul Waldmann, Circle Leader Ben Robinson, Beverly Still, and Ray Wilson.



QC's IE's - representing Manufacturing Engineering: seated, Bob Ramey, Al Marion, Circle Leader Ray Shuford. Standing are Mike Moninger, Bill Gibson, Harry Wendt, Bob Kellett, and Art Acosta.

SOCIAL SECURITY TAXES CHANGED FOR THIS YEAR

Social Security tax changes taking place effective January 1, 1984, will affect employers and some employees.

The maximum amount of wages subject to Social Security taxes will rise by \$2,100 to \$37,800. The tax rate on employees will remain at 6.7%. The employer's share goes up to 7 percent. The most Social Security tax any worker can pay in 1984 will be \$2,532.60.

It even talks . . .

AUTOMATIC FINAL TEST SYSTEM DESIGNED BY TEST ENGINEERS

A fully automatic Final System Test system has been custom designed in-house by members of our Test Engineering Department to aid in testing complex electronic products and systems.

The DEC ATE (Automatic Test Equipment) has already been put to use in testing Instrumentation Data Recorders, and is expected to have many applications in the Telemetry Test area as well.

This type of System Automatic Test Equipment is especially useful in performing repetitive, time-consuming testing. It has the added advantages of being very consistent in the tests it runs, along with showing a printed record of the test results, and retaining a record of the tests in storage on disk.

Keeping the record in its "archives" is a beneficial feature. The "archival" feature will be especially helpful in spotting trends, for trend analysis. It gives a complete record of the tests run on each instrument or system, for future reference by Engineering, Field Service, and Applications Engineering.

The computerized ATE Final Test equipment can also be accessed by modem, over phone lines, from remote Field Offices. This offers advantages to the Field Sales and Service offices which can utilize their computer terminals to "read" the test data, consult the "archives" for the original test results, and in general bring the Field closer to witnessing in-house tests.

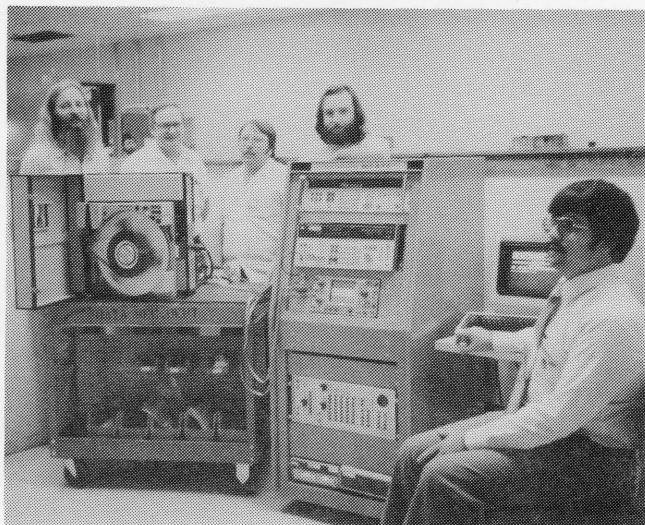
Best of all, the Final System ATE is expected to be a great time-saver in running long, complex tests of sophisticated equipment.

One feature of the new ATE stations is a voice synthesizer, which permits the ATE to "talk." This capability permits Test Technicians to devote their efforts to other projects while the ATE System Test is in process. The voice synthesizer will then alert the Technician in the event of an error or assistance needed condition.

For the technical reader: Software is all menu driven. The ATE system uses an RSX 11M operating system and a PDP 11/34 computer. It is a fully automatic Final System Test system, controlled by the IEEE-488 Bus.

There are currently two new ATE stations, expandable to as many as we need, using one computer -- the PDP 11/34. The system became operational in January, 1984, and has already been set up for testing the Model 12 and Model 80 Data Recorders, and is also being used in testing the Model 420's in Telemetry Test.

Jim Wayda and James "Woody" Griggs, of Test Engineering, are the individuals responsible for developing the software



Test Technician Robin Speidel, with Dick Dungan, Woody Griggs, Sam Virts, and Jim Wayda, of Test Engineering, demonstrated the ATE Final System Test set-up for a Model 80 Data Recorder.

for the ATE system. Jim Wayda devoted his attention to the System Software and device drivers. Woody Griggs was involved in the Applications Programming and test boxes. The high-pass and low-pass filters used in the ATE system were designed by Dick Dungan. Sam Virts helped build the hardware.

The ATE System will be expanded during the year with the addition of hardware and software to automate testing of new and established products in the Telemetry and Instrument Recorder areas.

"The whole Department has been working together on this new ATE concept," said Paul Copen, Manager of Test Engineering. "I feel that these Engineers and Technicians have really given it their all. Many hard, long hours have gone into the project, but it is only the beginning. In the future we will be getting into Distributive Processor ATE Stations. What this means is if the main computer goes down, or any station malfunctions, computer testing can still continue to operate."



PRACTICE SAFETY - AVOID ACCIDENTS

Employees at Data Systems Division reached a safety record of better than 464,500 hours without a lost-time accident this month -- thanks to YOUR safety awareness. One of the best things about practicing safety at work or at home is that it helps us to avoid painful injuries. Accidents can hurt. Be safe.

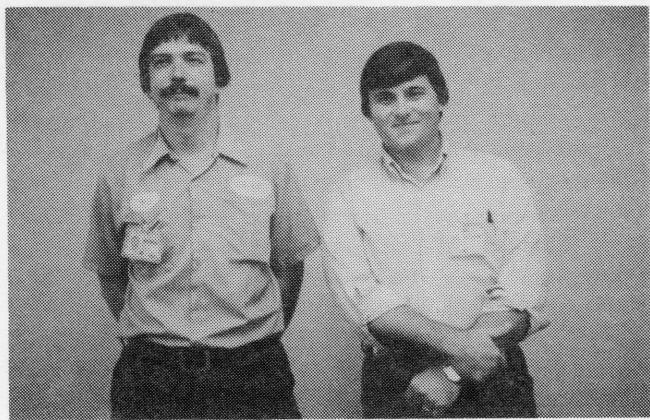


EMPLOYEES MARKING SERVICE MILESTONES

Congratulations to these employees who are observing major service milestones during January.



Seated, George Norton, Sharon Gooch, and Faye Bragg, who are marking 10 years with our company. Standing, Peter Simmons, Cheryl Little, Jack Snider, Ray Sola, and Terry Hurst, all observing their fifth anniversaries.



Ed Morrow (left) completed ten years of service this month and Ray Shuford marked five years with the company. Missing from this photo is Frank Guinn whose fifth service anniversary also took place during January.



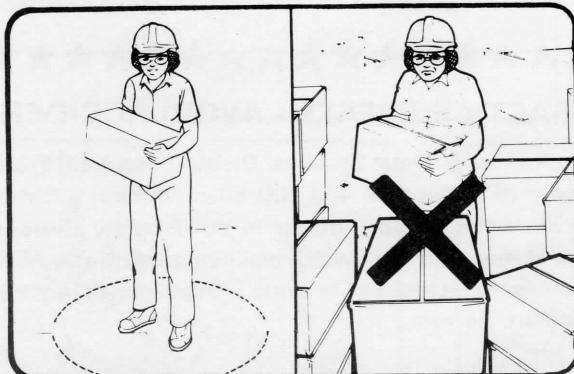
Rose Stroface, of our Lancaster, Calif. office, received her 15-year service pin from Wyatt Bishop (left) and Carl Steineckert.



Tom Bell, of Field Service, in our Albuquerque, N.M. office, rounded out five years with our company during January.

SAFETY AWARENESS

TAKE TIME TO PLAN



GIANT VAN WILL HOUSE BIG NASA LETF SYSTEM

This huge van, located near our Receiving Inspection Department at the west end of the plant, is to be part of a very large system to be delivered to the Launch Equipment Test Facility at Kennedy Space Center.



Bill Cox and Joe Smith started working on getting power for the NASA Instrumentation Van immediately upon its arrival at the plant.

Work is currently underway in Manufacturing and Systems Engineering on the NASA-KSC order, valued at nearly \$3,000,000.

There are two systems involved in the Launch Equipment Test Facility (LETF) contract -- a Data Acquisition System (DAS) and a Data Processing System (DPS). Both are to be used to support the Launch Equipment Test Facility at NASA-KSC.

The DAS will be housed in a custom-built trailer which is 40 feet long and eight feet wide. The Data Processing System (DPS) will be housed in a Kennedy Space Center building.

The two complex systems include a wide variety of equipments -- a DEC VAX 11/780 computer, over 150 Model 420 Signal Conditioning Amplifiers, a Model 715 Processor, three EXPRT systems, four Model 4 Data Recorders, and other items. The scheduled shipping date is late May, 1984.

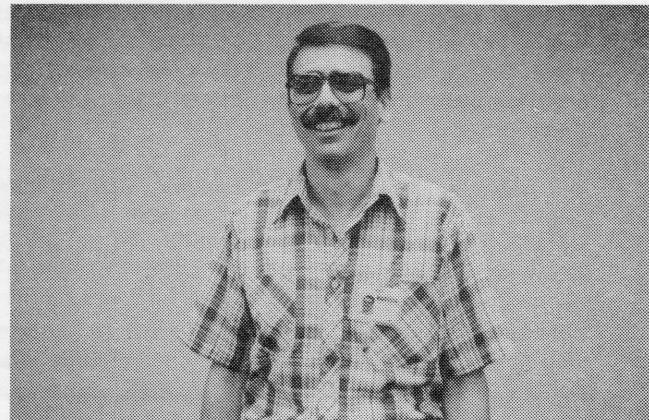
Numerous employees throughout our plant are contributing to the LETF systems. Currently, assembly employees, led by George Phillips, are installing equipment in the van. The LETF Systems Engineering team includes Program Manager Dick Haase, Software Project Leader Mike Hutchinson, and Project Programmer Kathy Bossert; Project Engineer Erwin Lawson, and Project Technicians Vic Boucher, Bill Cox and Dick Van Deusen.

PHIL LUQUETTE AWARDED USAF COMMENDATION MEDAL

Phil Luquette, Test Technician in our Telemetry Test Department, has received the Air Force Commendation Medal and a citation for his service in the U.S. Air Force Reserve. It reads:

"Citation to accompany the award of the Air Force Commendation Medal to Phillip C. Luquette

"Technical Sergeant Phillip C. Luquette distinguished himself by meritorious service as Squadron Academic Training Monitor, 81st Aerial Port Squadron, 315th Military Airlift Wing (Associate), Charleston Air Force Base, South Carolina from 1 June 1978 to 1 June 1983. During this period, the outstanding professional skill, knowledge, and leadership of Sergeant Luquette resulted in an effective and successful unit academic training program. The singularly distinctive accomplishments of Sergeant Luquette reflect credit upon himself and the United States Air Force."



Phil's active duty in the Air Force from 1969 to 1972 included service in communications in Korea. In the Reserves his assignments have taken him to Charleston, S.C., Georgia, Delaware, Spain and Germany.

JIM STEIN, DON WRIGHT ATTEND RECORDER TECHNICAL SESSIONS

Fairchild Weston's Data Recorders group was represented at several technical meetings in Long Beach, California, earlier this month by Don Wright, Marketing Manager, and Staff Engineer Jim Stein. The two men took part in meetings of THIC (Tape Head Interface Committee); the Telemetry Group - IRIG, Recorders-Reproducers meeting, and ANSI (American National Standards Institute).

At the THIC meeting, Jim and Don participated in discussions on the relative merit of longitudinal tape recording vs. transverse recording. (Transverse recording is ordinarily used in TV recording.) At the IRIG Recorders-Reproducers session, the subject was new standards for recorders involving "Double Density." This IRIG group sets the standards to which our Recorders are manufactured.

At the ANSI meeting, Don and Jim participated in discussion about new test procedures for instrumentation recorders.

RENOVATIONS PROCEEDING IN VARIOUS PLANT AREAS

Plant Engineering and Maintenance personnel have been busier than usual with additional plant renovation projects. Recent improvements involved:

- Renovations in the Sheet Metal, Paint Shop, and Metal Plating areas. Here you will notice general upgrading in the appearance of the areas, along with a powerful new independent ventilating system in the Silk Screen Room. Some improvement in the ventilating system and new exhaust hoods have been installed in the Metal Plating area, and an improvement is planned in the "pusher"/ventilating system for certain plating tanks.
- Plants have been added as a decorative improvement to the new Snack Area. Additional tables and seating will be arriving soon.
- Distinctive new signs have been hung to identify the various areas in Manufacturing. Our own Sheet Metal, Paint Shop and Maintenance personnel designed and made the new signs, after it was determined that purchasing them would cost far more than making the signs in-house.
- The Sewage Treatment Plant building and grounds, located at the West end of our property, have been renovated. Carpentry, electrical work, and painting have improved the facility.
- Wondering about the yellow "racing stripes" on the floor in the aisles throughout the Manufacturing area? These have been installed as a safety measure to mark operational areas and the walkways. Aisles can be kept clear for traffic, and visitors to Departments can readily see the safe traffic patterns.
- New paint and other improvements are proceeding as part of our on-going long-term plant renovation plan.

SAFETY TIPS



DIVERS ARE HEADING FOR COZUMEL, MEXICO

Data Systems Division Scuba divers and some family members gathered recently to discuss plans for a Scuba trip to Cozumel, Mexico, May 17-20. Thirty individuals have already signed up for the trip which leaves from Miami.



The trip is open to divers and non-divers, and features opportunities for Scuba training, and an optional side trip to the Mayan ruins on the Yucatan Peninsula. Employees may call Graham Hildebrand, Ext. 283, for more information.

GIFTS TO GIVE ALL YEAR LONG

1. A smile
2. A thank you
3. A hug
4. Say "good morning" even if it isn't
5. Call on an old friend
6. A pat on the back
7. Ignore a rude remark
8. Say something nice instead
9. Talk to someone who is lonely
10. Keep a secret
11. Try to understand your kids
12. Try to understand your parents
13. Tell the truth
14. Tell someone when he/she is doing a good job
15. Say "I love you" often
16. Spread a little laughter around
17. Say "please"
18. Pass on some good news
19. Do a kind deed, anonymously

By Jack Berg, Counselor
Alta Vista School, as
printed in PIPELINE
Sarasota County School System

CONGRATULATIONS!

KATHLEEN CLARK (Payroll) and her husband Michael welcomed their son Michael Martin, Jr., on January 2. Young Michael weighed in at 7 lb. 8 1/2 oz.

DEXTER NASH (Personnel) and his wife Michelle announce the arrival of their baby daughter Heather Lynelle on January 4. Heather was 6 lb. 9 oz. at birth.

SANDRA HATCHER (Data Processing) is the mother of a baby boy who arrived on January 9, weighing in at 7 lb. 9 oz. The baby's name is Rashawn.

JOANIE ODZIC (Systems Assembly) and her husband Richard are the parents of a son, Adam Shaun, who was born on January 14, at 8 lb. 13 oz. Pat Lahmers (Photo Lab) and Bob Lahmers (Machine Shop) are Adam Shaun's proud grandparents.

CHERYL FOSTER (Security) became Mrs. Patrick (Rick) Little on December 23 in an evening church wedding in Sarasota.

JOE DALTON (Signal Processing) married Kari Miller on December 23 in a Sarasota church ceremony.

LINDA ARTELL (Receiving Inspection) and Ron Altice were married in a church wedding in Sarasota on December 24.

SOCIAL SECURITY ALLOWS FOR INCREASED EARNINGS

Effective January 1, 1984, Social Security regulations allow beneficiaries who plan to work to earn more and still receive their Social Security checks. The new information states:

If you are now 65 or older, or you will reach 65 in 1984, you can earn \$6,960 and still receive all your checks. If your total yearly earnings go over \$6,960, \$1 in benefits may be withheld for each \$2 of earnings above \$6,960.

If you are under 65 all of 1984, you can earn up to \$5,160 and still receive all your checks. If your total yearly earnings go over \$5,160, \$1 in benefits may be withheld for each \$2 of earnings above \$5,160.

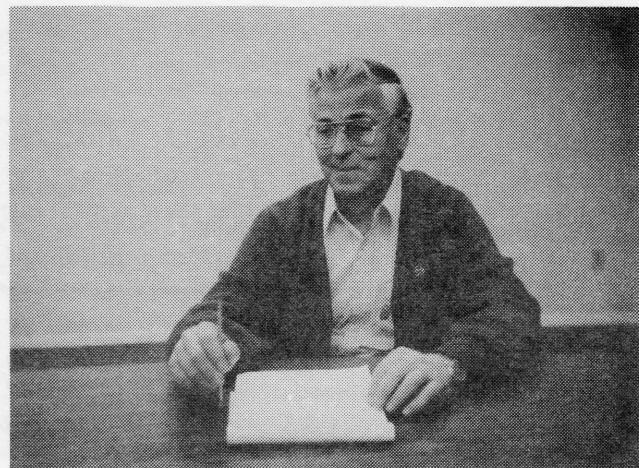
In 1983, the annual exempt amounts were \$6,600 for people 65 and over and \$4,920 for people under 65.

If you worked and earned more than the annual exempt amounts in 1983 while receiving benefits, you must complete an annual report of earnings by April 15, 1984, unless you were 70 or older all year.

NOTE: Beginning with the month you reach 70, you get your full check each month no matter how much you earn.

FRED STIEFEL JOINS RANKS OF RETIREES

Fred Stiefel, of Manufacturing Engineering, has elected early retirement this month after 26 years of service with our company in Sarasota.



FRED STIEFEL

"When I joined the company as Metal Finishing Supervisor in December, 1957, we had just the initial portion of the Manufacturing building. That was before the A & E, L-2 and Systems buildings were started, and it was several years before the Production Building addition was put on for the Machine Shop, Printed Circuit and Plating operations," Fred recalls.

Fred and his wife Leah have no specific retirement plans, except to enjoy more things, including a little traveling.

In reviewing his years of very active service, Fred recalls being part of the equipment selection process as we expanded. He helped introduce many new machines and methods in the printed circuit fabrication and metal finishing areas.

"I have enjoyed working at EMR/Fairchild, and during 26 years we have made many wonderful friends," Fred said. "Even though I will miss seeing them at work, we hope to keep in touch."

All the best, Fred, from your friends and colleagues.

BOWLERS AT MID-POINT

Fairchild Weston's Mixed Bowling League finished the first half of the season with Team #14 in the lead. A three-game roll-off resulted in a win by Paul and Bobbie Copen, Ray Shuford and Kathy Lowe (now replaced by Carol Waters). Runners-up are the members of Team #12: Joe and Cary Faso, Rick Mitchell and Anna Jauschneg.

The 16-team League bowls Wednesday evenings at South Gate Lanes, starting at 6:30 p.m. League Officers are President Larry Foster, Vice President Sonya Carlson and Secretary-Treasurer Debbie Woolard.

A VITAL EMPLOYEE BENEFIT

INSURANCE BENEFITS DATA -- FOR YOUR INCOME TAX

January is the time to collect your data for income tax purposes. As a convenience to employees who are itemizing deductions, there are two charts below. They summarize:

- 1) Medical Insurance premiums for your dependents' medical insurance coverage through our group insurance plan
- 2) The premiums employees pay on our Dental Insurance benefit.

1983 MEDICAL INSURANCE PREMIUMS FOR DEPENDENT COVERAGE

Not including Long Term Disability (LTD)

Spouse only	\$2.58/wk.	X	52 pay periods	=	\$134.16
Child (ren) only	\$1.56/wk.	X	52 pay periods	=	\$ 81.12
Spouse & Children	\$4.15/wk.	X	52 pay periods	=	\$215.80

1983 DENTAL INSURANCE BENEFIT PREMIUMS

(50/50 Cost Sharing between Employees & Company)

If you were in our Dental Plan for all of 1983, your contribution was:

Individual Dental Coverage	\$.98/wk	X	52 pay periods	=	\$50.96
Family Dental Coverage	\$2.82/wk	X	52 pay periods	=	\$146.64

POINTS TO REMEMBER:

- ★ The Company pays 100% of the premiums for the group medical insurance coverage on you the employee.
- ★ You pay only a SMALL PART of the premiums for dependents' medical insurance coverage. Currently, the Company pays over 91% of the total cost of group medical insurance coverage. Employees pay less than 9% of the cost of the medical insurance premiums.
- ★ Our group medical insurance coverage has been improved again and again. Costs for medical services have skyrocketed. Yet the amount you pay toward your dependents' medical insurance coverage has been the same SINCE 1974. Our Company has absorbed the increases.
- ★ Our Company paid over \$910,000 for total group medical, dental and LTD insurance coverage on employees (and dependents) in 1983. Of that amount OVER \$800,000 went for our Group Medical Insurance coverage, which includes Medical, Life, Accidental Death & Dismemberment, and Short-Term Disability coverage.