

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

NEWS ABOUT SANGAMO WESTON, SARASOTA

Vol. III, No. 9

AUGUST, 1981

## FAIRCHILD AVIATION RECORDERS COMING TO SARASOTA PLANT

Employees of Sangamo Weston's Data Systems Division and Fairchild Weston Systems are preparing to welcome a new product line and some new colleagues from Fairchild Industrial Products, Commack, N. Y.

General Manager S. Kent Morgan announced on August 17 that Fairchild aviation recorder business from Commack will be moved to Sarasota gradually over the next several months. The products include aircraft Cockpit Voice Recorders and Digital Flight Data Recorders.

"The Fairchild aviation recorder business has been very successful in the past and I consider it to be a very attractive addition to our over-all operation. It is currently larger than the Sangamo Data Recorder line, and the prospects for the future look very good," Mr. Morgan said.

Aircraft flight recorders and voice recorders are used to unravel the mysteries of air accidents. Fairchild's voice and data recorders business has grown to make Fairchild the largest manufacturer in the field, enjoying the majority of the world market. Currently, over 350 domestic and foreign airlines, and private aircraft fleets, are customers for Fairchild aviation recorders.

**COCKPIT VOICE RECORDER (CVR)** -- Since the mid-60's, a voice recording system has been mandatory for all large passenger aircraft. The Fairchild Cockpit Voice Recorder, which will be produced in Sarasota, weighs 22 pounds. It  
(Cont'd on Page 8)



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## RDAPS SYSTEM IN VAN NEARS SHIPPING DATE

A large Real-Time Data Acquisition and Processing System (RDAPS) has been installed in a huge van, located in our South parking lot, and is now being prepared for shipment to the U. S. Army Aviation Engineering Flight Activity at Edwards Air Force Base.



In the van, Dick Haase, Mike Hutchinson and George Phillips (standing), with Bob Moore and Vic Boucher, seated.

The RDAPS system is mounted in a 10' x 40' trailer, which is identified by a red horizontal stripe. This system is one of two identical systems we will provide for helicopter testing at Edwards Air Force Base, Calif. The second van, currently located inside the building near Shipping, will differ from the first trailer only in the color of the stripe on its side -- a blue stripe instead of red.

The two RDAPS contracts, valued at over \$3.8 million, were awarded to Sangamo Weston in 1979. These new aircraft flight test systems will replace the EMR 6135 computer-telemetry systems supplied by EMR over 10 years ago.

Included in the RDAPS systems are 700- and 4000-series equipment, integrated with a DEC VAX computer, in addition to other purchased equipment.

(Cont'd on Page 7)

# INTRODUCING THE EMPLOYEES IN . . .

## TELEMETRY & INDUSTRIAL PRODUCTS TEST DEPARTMENT

The Telemetry and Industrial products Test group, supervised by Bill England, is responsible for testing approximately 170 different models of standard products. These products consist of both analog (FM) and digital (PCM) designs.

The department ships about 8,000 units annually. About 30% of them are sent to Engineering for integration into custom-designed systems to fulfill specific customer requirements. The remainder are shipped directly to customers. Some of our less complex units take less than an hour of test time, while other very complex models require up to 150 hours each for test and troubleshooting.

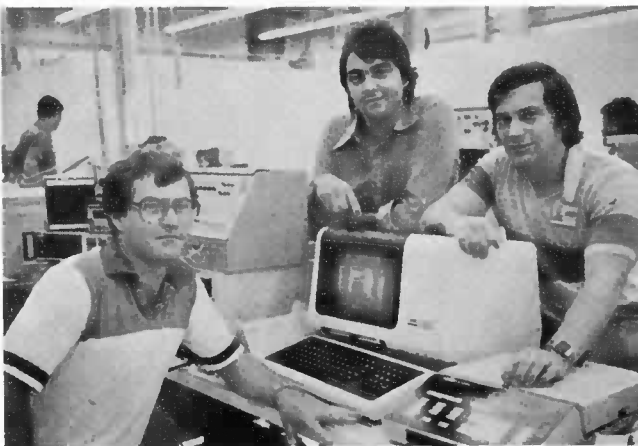
*Dave Clouse*



Dave Clouse  
Manager, Telemetry &  
Industrial Systems Production



Linda Young does repairs in the Test Department, and installs test variables selected by the Test Technicians.



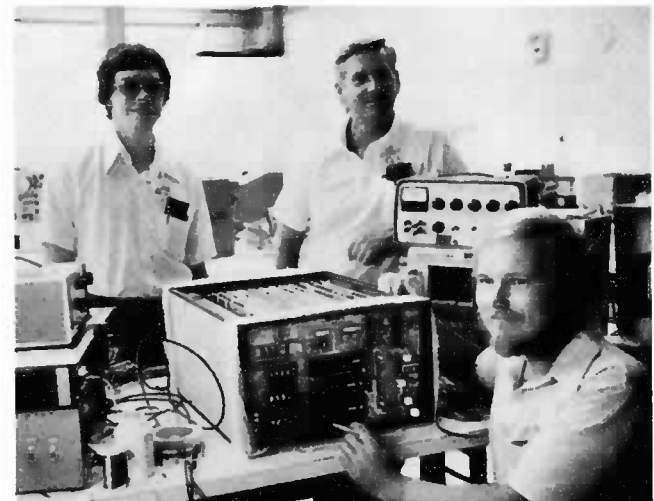
Art Tackman, Tar Goes and Jim Schadt, pictured with an EXPRT PCM Data Processor, test PCM (digital) products.



Industrial products and systems are tested by Greg Sutton, Barry DuFour, Gene Minkus and Terry Vinson. In foreground is a Model 3380 Channel Controller.

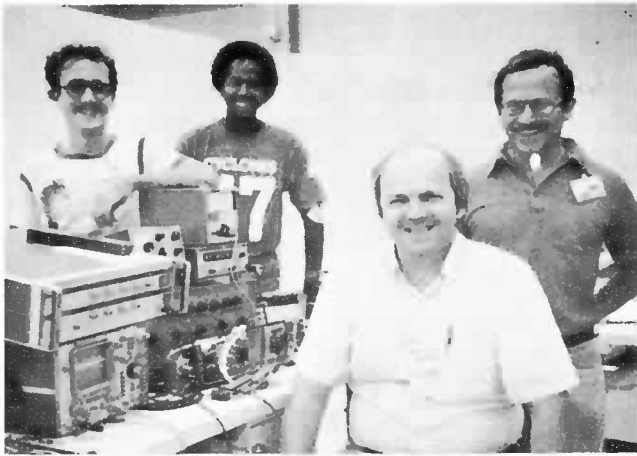


John Brisbin (seated), Dick Bridgman, Nick Ostrye, and Supervisor Bill England are pictured with test set-up for a Model 726 PCM Bit Synchronizer (center). These Technicians have experience on PCM products in the 500, 700, 1700 and 2700 series.



Gil Pelowski, Lonnie Gunter and Ray Thomas (seated) are shown with a Model 410 Universal Tunable Discriminator. These Technicians work on FM and PCM units.

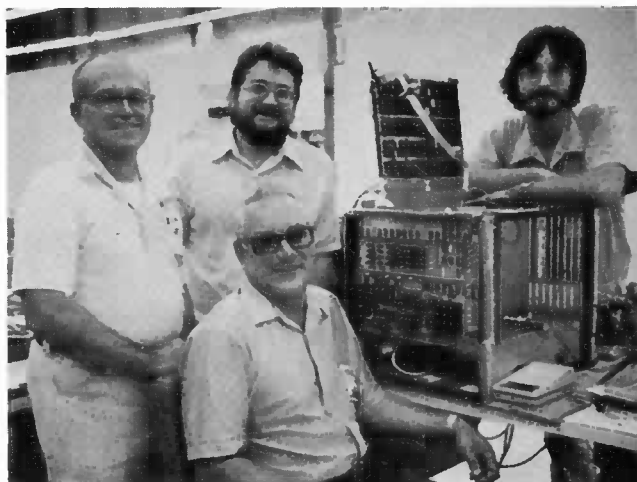
## TEST DEPARTMENT (Cont'd)



Technicians John Burr, Simon Ford, John Fierstos (seated) and John Jaques work primarily on FM models. The test set-up is for a Model 4130 Single Subcarrier Discriminator.



Dale Gray, Matt Neelley, Jeff Garner and Clarence King test FM units. In the foreground is a Model 4142 Tunable Discriminator.



Burt Schmitt (seated) with Model 429 Programmable Multiplexer Encoder. Standing are: Dick Healy (who works on 600-series), and Zoltan Deak and Doyle Jones, who test 720's.

## CONGRATULATIONS !

KEN TUCKER, Data Recorders Customer Service Engineer, Western Region, Fairchild Weston Systems, was married to Marie Nolan on July 17 in Houston, Texas.

LINDA SITTLER (Systems Assembly) and RALPH KRUEGER (Machine Shop) were married in a garden wedding on August 15.

VIVIAN PERRY (SWS Assembly) became Mrs. Gregory Owen at Vivian's home in Bradenton on August 15.

CANDY BARKER (Assembly) became Mrs. Jonathan Esber in Sarasota on August 8.

BETTY JO MATTHEWS (Systems Assembly) and her husband Michael welcomed their baby boy, Michael Allen, on August 24. He weighed in at 8 lb. 12 oz.

MARTHA STEVENS, (Data Recorders Marketing) and her husband Paul are the proud parents of a daughter, Alicia Diane, born July 29 at 7 lb. 6 oz.

BOB MOORE (Systems Assembly) and his wife Clare welcomed their new son Aaron Michael, born July 30, at 7 lb. 10 oz.

ROBERT G. WILLIAMS, of Final Q. C., completed the requirements for his Associate's Degree in Science at Manatee Junior College. Bob is the father of Bruce Williams of Traffic.

## STROCK TRAVELING TO TEACH TELEMETRY-COMPUTER CLASSES

Jud Strock, National Sales Manager, Fairchild Weston Systems, is traveling widely to teach a series of intensive courses on Telemetry-Computer Systems for customers, and potential customers, around this country and abroad.

Jud prepared a 360-page text on the subject, and has presented the two-day classes to management-level customers at Las Cruces, N.M., San Diego and Los Angeles, Calif.; Ogden, Utah; Idaho Falls, Idaho; Dayton, Ohio. Additional classes are scheduled for Dayton, Seattle, and Point Mugu, Calif.

Jud is currently in India for a special series of classes at Poona, Hyderabad, and Bangalore.

After the course is presented, Jud Strock and the area Sales Engineers have follow-up sales discussions with specific customers, as appropriate.

"The customers are showing greatest interest in our Model 714 Data Compressor, Model 715 Multiplex Processor; SABRE series of high-density digital recording electronics; Televent software and Systems experience," Jud reports.

## What Do You Do In Your Spare Time?

### HOW ABOUT A TRIP TO ENGLAND WITH 35 BOY SCOUTS !

Gary Foland and Mark Stuart, of our Stock Room, accompanied a group of 35 Boy Scouts on a three-week trip to the British Isles during July. Mark and Gary have been active as Scout leaders or Assistant Scout Masters for Boy Scout Troops or Explorer Posts for five years or more.

On the trip, the Boy Scouts ranged from 11 to 17 years of age, but most were 13 or 14 years old. Preparations for the trip began over two years ago when an English group requested Boy Scouts International Headquarters to arrange for an exchange of visits.

Mark and Gary became involved when their Troop's previous Scout Master and the Committee for Troop 24 (Church of the Redeemer) agreed to plan for the exchange. The English group visited Sarasota in April, 1981. There were 51 British Scouts and adults to be housed and entertained.

Meantime, the plans called for the Sarasota area Scouts to earn enough money for the trip-- half to be earned through Troop activities, such as yard work, washing windows, yard sales, etc., and the other half through each Scout's parents or other fund-raising means outside the Troop. Each Scout needed \$900 plus spending money.

The 35 Scouts and eight adults left Tampa for England on July 2, via Laker Skytrain. Their English hosts met the American group at Gatwick Airport, and took them to the Bristol area to visit in various private homes where they were guests for the first week. Next came bus trips to Wales, Scotland and London, and a final week of camping at Gilwell, England, where English scouting had its start.

"It was hectic, but fun," Gary and Mark agree. The Americans learned that Scouting is world-wide; that all people are basically the same, and they learned how other people live.



GARY FOLAND AND MARK STUART

"The McDonald's hamburgers and Kentucky Fried Chicken ain't the same as home," declared one Scout. All were astonished at the difficulty of finding ice for their Cokes and cold drinks.

Souvenirs? Gary collected T-shirts, and Mark invested in kilts and ceramic mugs.

Would they do it again? Well, there's the Scouting Jamboree in Calgary, Canada, coming up in 1983.

### ANNIVERSARY GREETINGS !

Congratulations to nine employees marking major service anniversaries with the company during August.

A special salute goes to Alan W. (Bill) Wilson, Manufacturing Engineer, who joined Sangamo Electric Company in Springfield, Ill., in August, 1941, and transferred to Sarasota early in 1978 with our Sangamo Data Recorders group. Congratulations, Bill, on your 40 years of service with the company.

Another big anniversary was observed this month by Chris Freeberg, Industrial Systems Engineering Technician, who completed 25 years with the company this month.



BILL WILSON



CHRIS FREEBERG



STEVE HOFF

A. W. (Bill) Wilson (40 years); Chris Freeberg (25 years); Steve Hoff (15 years). Steve is in Data Recorders Sales, Fairchild Weston Systems, Conroe, Texas.



Bob Rosa, Doris Joubert, and Nancy Wentz, all complete five years with us this month; Ron VanderVliet, 15 years. Missing from photo are Valerie Fordham (5 years) and Jim Horvath (15 years).

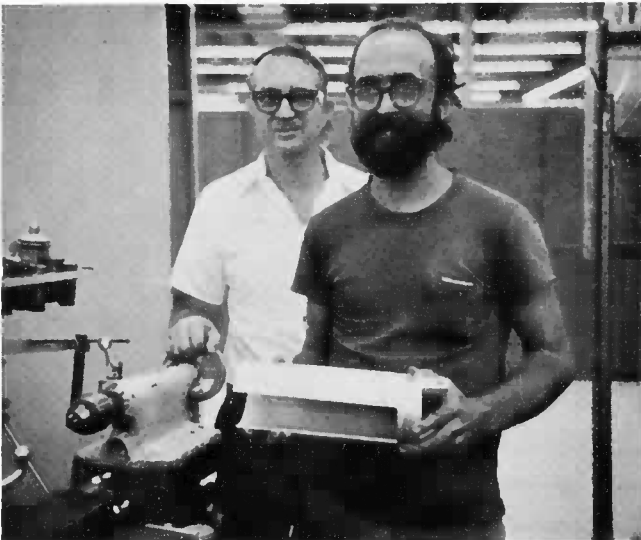
## EMPLOYEES' SUGGESTIONS WIN COST REDUCTION AWARDS

John Sapp, of the Stock Room, and Fred Hittel, of the Machine Shop, became the 15th and 16th cash award winners for their suggestions in our Cost Reduction Program.

John Sapp suggested a new computer program and procedure for clearing shortages in the Stock Room's computerized material handling system. His time-saving idea will yield an estimated annual saving of over \$5,000. John's initial award was \$253.50. He is eligible for the second portion of his award after the suggested improvement has been in operation for a full year and the actual savings are evaluated.

Fred Hittel received a \$50 one-time award for his suggestion concerning the machining of an aluminum casting for SWS. The \$50 one-time incentive awards reward employees for CRP suggestions which may not have long-time measurable cost savings, but which benefit the Company's operations and our customers.

Estimated annual cost savings for the Division through Cost Reduction Program suggestions to date total over \$30,000.



Fred Hittel, holding aluminum casting, and Supervisor Harvey Bundrick.



John Sapp at Stock Room terminal with Supervisor Bernie Cori.

## COMPLETING A BIG JOB

The last of 600 units of the Model 420 Signal Conditioning Amplifiers is pictured here just prior to shipment to the customer -- Physical Sciences Laboratory of New Mexico State University, Las Cruces, N. M.

The order was one of the largest orders for standard products we have ever received. Valued at well over \$2,000,000, the order included large quantities of 400-series and 700-series equipments, plus data recorders.



A Model 420 and part of the Heldaps team: Bob Rosa, Robin Brown, Evelyn Christian, Wyatt Bishop, Delta Wildermuth, Harold Miller (on the last day before his retirement) and Ray Thomas.

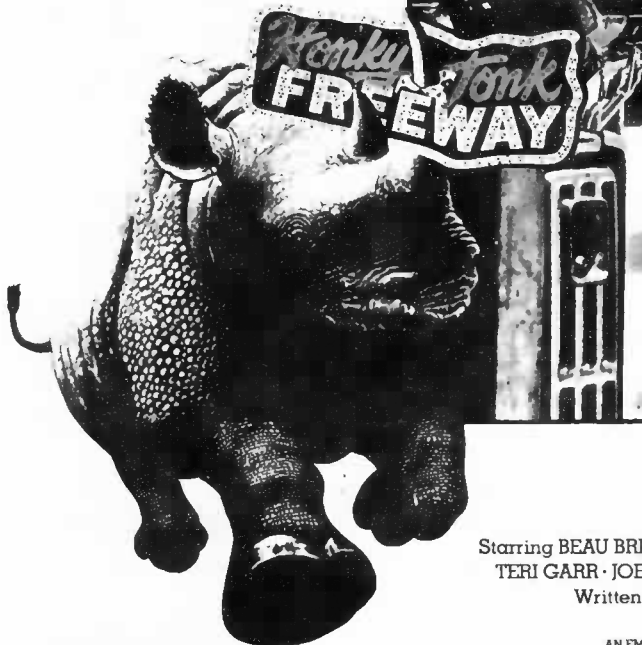


**SCHOOL'S OPEN - -  
PLEASE DRIVE CAREFULLY !**

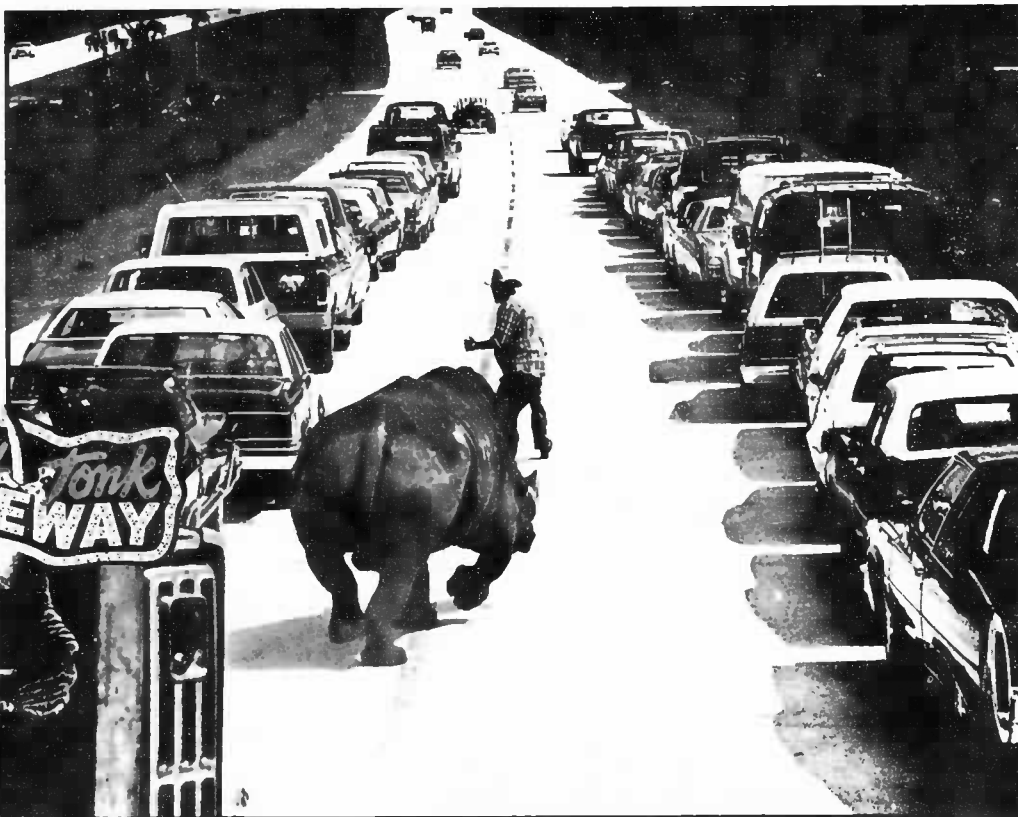
# LOOKING FOR FRIENDS IN NEW MOVIE COMEDY

WHEN IN SOUTHERN CALIFORNIA VISIT  UNIVERSAL STUDIOS TOUR

SOMETHING  
FUNNY IS  
HAPPENING  
ON THIS  
FREEWAY



...GET OFF ON IT!



EMI FILMS Presents A JOHN SCHLESINGER Film


"HONKY TONK FREEWAY" A DON BOYD Production

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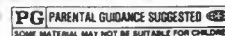
Written by EDWARD CLINTON · Produced by DON BOYD and HOWARD W. KOCH, JR.

Directed by JOHN SCHLESINGER

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SOUNDTRACK AVAILABLE ON CAPITOL RECORDS & TAPES 

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 PG PARENTAL GUIDANCE SUGGESTED  
SOME MATERIAL MAY NOT BE SUITABLE FOR CHILDREN

Have you seen the movie? Did you recognize any of your Sangamo Weston colleagues?

A number of employees were "extras" when the movie "Honky Tonk Freeway" was being filmed at the I-75 location near the plant last summer. Remember when they painted all the nearby buildings pink? And the night they blew up the bridge over Palmer Blvd.? The long-awaited comedy opened at two Sarasota area movie theaters last week, and Sarasotans are having fun looking for somebody they know in the film.

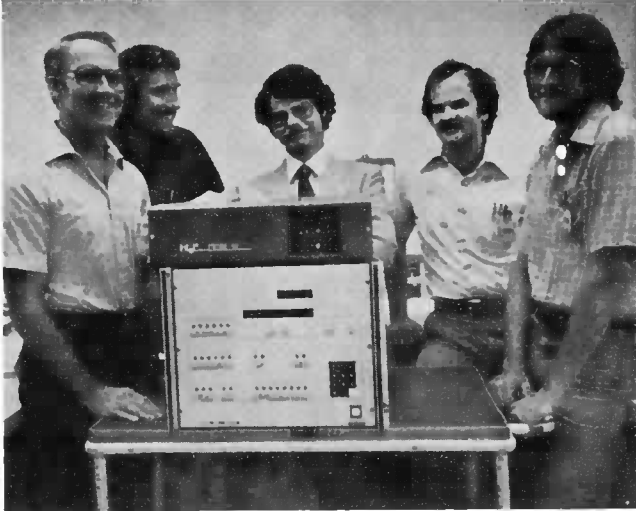
## IDEA WINS PRIZE

Technician James "Woody" Griggs, of Receiving Inspection, is a winner in the monthly Radio Electronics "New Ideas" contest, with his circuit for a CMOS Format Headlight Alarm. Woody's entry is a beeper alarm for the absent-minded driver who forgets to turn off car headlights. His prize is a \$25 check and a PanaVise Work Center, which includes a circuit board holder, standard base, tray base mount, and solder station, so that he can create other electronic devices.

Congratulations, Woody!

## RDAPS SYSTEM IN VAN (Cont'd)

A new feature is the Model 715 Multiplex Processor, one of the most complex products ever designed by Sangamo Weston in Sarasota. The unit is a "marriage" of hardware and software, known as firmware. The unit performs data merging of multiple inputs, time correlation, number conversion, data compression, engineering units conversion, array building, and sorting of output data.



The Model 715 Multiplex Processor Team included: Graham Hildebrand, Joe Lehmann, Chuck Miller, Ron McDeed, and Greg Parks.

"It took the efforts of many departments to successfully accomplish the many unusual tasks associated with installing a telemetry/computer system in a trailer," explained Dick Haase, Hardware Project Engineer. "We would like to give special thanks to Systems Assembly for their good work; the Traffic Department for their congenial helpfulness; Maintenance for their cooperation; the Engineering Model Shop for their quick response for our special needs, and the Test Department for speedy repairs while the van was in the parking lot," Dick said.

The Systems Software Department performed a major programming effort, in cooperation with SAI, a software subcontractor. The Sangamo Weston team which worked on this major project includes: Program Manager Frank Bost, Hardware Project Engineer Dick Haase, Project Technician Vic Boucher, Software Project Engineer Mike Hutchinson, Model 715 Team Leader Graham Hildebrand; plus Mitch Phillips, Joe Lehmann, Chuck Miller, Ron McDeed and Greg Parks.

## HOW SWEET IT IS!

Employees in S.W.E.E.T. -- Sangamo Weston Educated Eaters Team -- are still losing weight and shaping up. S.W.E.E.T. participants have completed 12 weeks of the program, and the scales show a total weight loss of 787 pounds. The program is coordinated by Occupational Health Nurse Debbie Graham.

## CUSTOMER LIKES THE QUALITY WE BUILD INTO EQUIPMENT

One of our customers returned a Model 4530 Dual V.C.O. (Voltage-Controlled Oscillator) for repair recently with the following comment:

### A NOTE OF INTEREST:

From the realm of "Who-can-complain?"

With the exception of perhaps ten power outages this unit has operated CONTINUOUSLY for approximately 6.5 years.

This Model 4530 and other equipment is used by the customer in a biodynamics lab in Louisiana for sled/impact studies with human subjects.



Technician Dale Gray with the Model 4530 praised by a customer. Dale also is holding the tiny transistor which needed replacement.

## EMPLOYEES TAKE CPR COURSE

Eleven employees completed a nine-hour Red Cross course in CPR -- cardio-pulmonary resuscitation -- this month. The class was taught by our Occupational Health Nurse Debbie Graham at the Red Cross headquarters on three consecutive Thursday evenings, and Sangamo Weston paid the course costs.

Congratulations to the following employees who are CPR certified: Ed Burns, Jean Burns, Pavlo Bobrek, Harold Kirby, Dale Woodland, Ed Domrzalski, Lloyd Miller, Marcia Montville, Hugh Mosley, Walt Knopik, and Mike Russell.

## SAVINGS BONDS PAY MORE

Did you know that U. S. Savings Bonds now pay 9% interest, compounded semiannually, for EE Bonds held to an eight-year maturity? Our Payroll Department will be happy to arrange for weekly payroll deductions for your U. S. Savings Bonds.

## FAIRCHILD AVIATION RECORDERS COMING TO SARASOTA PLANT

(Cont'd from Page 1)

records all voice communications originating in the cockpit area, the pilot's station, co-pilot's station and the passenger public address system or third crew member station. The continuous closed-loop tape provides a record of the last 30 minutes of communications, and can be totally erased by the pilot only after a safe landing.

The CVR is housed in an internal protective enclosure with special thermal insulation, and is constructed to withstand a force in excess of 1000 G's. Survivability is assured by a high-strength, stainless steel casing also designed for crush and shear protection. The Cockpit Voice Recorders are fire tested for one hour at 2000 F, and meet and exceed all FAA requirements.

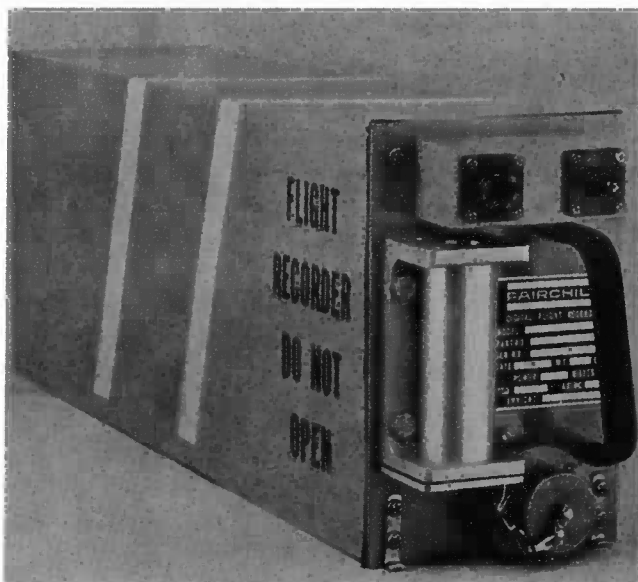
These recorders, commonly called black boxes, are in reality International Orange in color.

**DIGITAL FLIGHT DATA RECORDER (DFDR)** -- A new generation of Fairchild digital flight recorders has recently been developed and introduced. These newest Digital Flight Data Recorders record the flight parameters on magnetic tape. This tape is protected in an enclosure nearly identical to the proven voice recorder module.

The Digital Flight Data Recorders are designed to acquire and convert up to 64 aircraft parameters to digital information and provide a continuous record of this data for the last 25 hours.

The new DFDR is fully interchangeable with the older type of Flight Data Recorder. An internal microprocessor controls all functions and alerts the crew in case of malfunction.

In June, 1981, Fairchild received its initial order from Republic Airlines for almost 200 DFDR systems. Three additional customers have since been added -- Boeing, Lufthansa and Piedmont.



**FLIGHT DATA RECORDERS** -- The original design of a Fairchild aviation recorder was the Flight Data Recorder which recorded four or more in-flight parameters by engraving on metallic foil. Over 4500 of these recorders have been furnished to air carriers throughout the world. Although still a popular unit, the new Digital Flight Data Recorder is expected gradually to replace this analog unit in the future. This earlier design will continue to be manufactured exclusively by the West Coast Fairchild operation in Los Angeles, Calif.

Sarasota employees are looking forward to having our Fairchild colleagues from Commack, N. Y., join us in the near future.

## GOLF LEAGUE NEWS



By Walt Knopik

The Sangamo Weston Golf League recently completed a most enjoyable and successful season. Congratulations go to the over-all League champions, Wiley Dunn and Stu Ulfers, who defeated Bruce Knisel and Ken Triplett in the championship playoff.

Low handicap golfers for the year were Dan Fincher (3), Bruce Knisel (4), Dave Crickette (4) and Orley Vanderwest (4).

In addition to regular trophies and prizes, awards were presented to winners of a special golf tournament held for League members and substitutes only.

This tournament, played at Forest Lakes Country Club, was won by Tom Greinke and Bud Lang, who tied with net 71's.

## GOLF TOURNEY PLANNED

Coming soon -- a Golf Tournament for ALL Sangamo Weston employees. The event is planned for September 26 at Plantation Golf Club, Venice. Notices will be posted as soon as final details are arranged.

Start planning now for a super golf day -- and the largest tournament ever. For more information on this event, call Dan Harriger, Ext. 594, or Orley Vanderwest, Ext. 264.

See you on September 26 !