

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. 9

SEPTEMBER, 1984

SPECIAL CONGRATULATIONS ON A NOTABLE ACHIEVEMENT

Kathryn E. Dilks, an Inspector in Receiving Inspection, has a very significant service anniversary this month -- 25 years of service with our company, and 25 years of perfect attendance.



KATHY DILKS

Kathy joined EMR on September 15, 1959. Thanks to good health and her conscientious effort, Kathy has had no absences due to illness during that quarter of a century. Congratulations, Kathy, on your notable achievement, and happy anniversary!

BIG FAIRCHILD FAMILY PICNIC SET FOR SATURDAY, OCTOBER 13

Tell the kids -- there'll be the moon walk and lots of games and prizes. Gather up your family and head for Elks Park on Saturday, October 13, for our big Family Picnic, from noon to 5 p.m.

On the menu are barbecued spareribs, hamburgers, hot dogs, baked beans, potato salad, cole slaw, chips, rolls & butter, watermelon, soft drinks, coffee, and beer.

Live music will be furnished by the John & Whit Duo who do Country, Country-Rock, jazz and Top 40 tunes. John plays rhythm guitar, organ, drums and bass pedals. Whit plays lead and rhythm guitar, and both sing.

Don't forget all the activities -- games, prizes, bingo, volleyball, sack races, tug-of-war, and horseshoes. Or just relax, visit with friends, and renew friendships with Retirees who will join us for the event.

If we are rained out, the rain date is Sunday, October 21, same place.

RECORDERS ASSEMBLY GROUPS HELP PLAN THEIR NEW LAYOUT

Several major moves are taking place throughout our Assembly area. The Aviation Recorders Assembly group has moved to the Production area near the Cafeteria, in a well-organized move that the employees helped plan.

In another related move, Instrumentation Recorders, headed by George Phillips, is in the process of moving to their new location, just west of the new Equipment Recorders area. These employees also participated in planning the layout for their Department.

"Members of the Aviation Recorders Assembly Quality Circle (the Aviation Flyers) met with Ray Shuford, of Industrial Engineering, and laid out the plan for our work area," said Supervisor Alyene McCoy.

Ray Shuford, Manager of Industrial Engineering, reports, "We had good input from the employees when the Aviation Flyers Quality Circle tackled their work layout as part of their Quality Circle project some months back. Now that we are moving several Production groups, due to heavy systems business, it was logical and very helpful to have the employees participate in the planning."

Systems Assembly will occupy a portion of the area vacated by the Aviation Recorders and Data Recorders Assembly

(Cont'd on Page 2)



Employees in Aviation Recorders Assembly have moved into their spacious new quarters near the Cafeteria. The employees and Industrial Engineering worked together on the new layout for the group.

AN EQUAL OPPORTUNITY EMPLOYER M/F/H/V

RECORDERS ASSEMBLY GROUPS HELP PLAN THEIR NEW LAYOUT

(Cont'd from Page 1)

group. The immediate use is for our current large NASA system contracts. In the not too distant future the Recorders Test area will be relocated to the section just north of the area now being occupied by Data Recorders Assembly.

ON-LINE DISPATCH SYSTEM TO HELP WITH PRIORITIES

A new On-Line Dispatch System has been developed to show priorities of work orders in production. The new system is being tested in the Fabrication areas headed by Eldon Andrews, Manager of Fabrication -- the Machine Shop, Sheet Metal Fab., P. C. Fab, Plating and Paint Shop.

The system is the result of a collaboration among Carol Waters, Peggy Long and Mike Rhodes, with enthusiastic participation of the Supervisors and Group Leaders in the Fab area.

"The On-line Dispatch System takes all the work orders in a work center, calculates their critical ratio, and lists them in order of importance," said Carol Waters, Master Scheduler in Production Control. "Critical ratio divides time remaining until due date by the standard time remaining to finish a part."

Supervisors and Group Leaders in the Fab Shop are very enthusiastic about the system, and one day this system should eliminate "hot lists" and "red bags" which are currently used to indicate emergency or priority situations, Carol states.

"As work moves through the shop, the priorities are recalculated nightly to update any changes in priority," Carol explained. "The system is being tested in the Fab Shop, and we expect it will be expanded to include all of manufacturing in the future."

EDWARD P. BURNS

Edward P. Burns, of Plant Engineering and Maintenance, died on September 9, 1984. Ed joined our company in 1978, and worked in Plant Engineering & Maintenance, and in Manufacturing, and most recently in the Maintenance materials and tools area. He was a native of Pennsylvania, and served in the Army, 1943-45. He is survived by his wife Jean, who was formerly employed here, a daughter Susan, and two grandchildren. Ed will be greatly missed by his many friends at Fairchild Weston.



QUALITY CIRCLE PRODUCES SOME HANDY IMPROVEMENTS

Members of the Aviation Flyers Quality Circle can point with pride to a number of improvements introduced as the result of Quality Circle projects in which Aviation Recorders Department employees participated.

"Everyone in the Department has taken part in producing these new improvements," said Circle Leader Alyene McCoy, "and I think we have all benefited."

Ideas for the improvements were suggested, brainstormed, and analyzed. Then the idea was turned over to Eldon Andrews, Manager of Fabrication, to evaluate the steps in fabrication. Toolmakers Arnie Papanti and Dick Veigel, of our Machine Shop, produced the items -- a harness board holder, chassis holder, wire holder, pin holder, connector pin cutter, and control unit holder.



Aviation Flyers Quality Circle members are: Juanita Rose, Shirley Terry, Teresa Smith, Marlowe Lymer, Alyene McCoy, Terri Hughes, Vi Blair, and Steve Creech. Improvements made through this Quality Circle include: front row -- control unit holder; pin holder, and connector pin cutter. Second row -- chassis holder, wire holder, and harness board holder.

VAL FORDHAM, CPIM

Production Planner Valerie Fordham can now sign her name "Val Fordham, C.P.I.M." The letters indicate she is certified in Production and Inventory Management.

To earn this distinction, Val had to pass four three-hour tests in the fields of Inventory Management, Production Activity Control, Capacity Management, Master Planning, and Material Requirements Planning. Val is now one of five CPIM's in the Sarasota-Manatee Area APICS group, and one of two at FWSI. Don Parker, of Procurement, is also certified in Production and Inventory Control. (APICS stands for American Production and Inventory Control Society.)

Congratulations, Val!

ELECTROSTATIC AWARENESS SEMINAR PRESENTED HERE



Pictured is one group of employees who attended a Static Awareness Training Seminar September 5-6 at Data Systems Division. Standing are Pervis Sanders, of Manufacturing Engineering; Cal Warriner, of 3M and Rich Bryndle, of Deanco, who participated in the seminar. Over 300 employees were briefed on the need to control electrostatic discharge in areas where static sensitive devices and materials are used. These devices include FET's, MOS and CMOS integrated circuits.

FINE LINERS QUALITY CIRCLE IMPLEMENTS FIRST PROJECT

Members of the Fine Liners Quality Circle, representing the Design/Drafting and CADDs area, have successfully implemented their first Circle project, resulting in improved convenience and time saving. The Department's project addressed the need to consolidate and control drafting supplies.

Supplies were formerly obtained from several different sources -- EDC, Stationery Stockroom, or purchased outside. The Fine Liners and members of the Department went through the analysis used in Quality Circle projects, and came up with the recommendation to consolidate drafting supplies in our Stockroom. One employee now has responsibility for stocking supplies for the Design/Drafting and CADDs group, making for a good saving in the time.

"We want to thank the people who handled the physical implementation for the project -- Ron Basham and Terry Workman in EDC, Bernie Cori and Rita McCrea, in the Stockroom, and Bev Still and Paul Waldmann, of Drafting," Circle Leader Ben Robinson said. Only vellum and mylar are still available through EDC. All other drafting supplies are now available through the Stockroom.

Fine Liner Circle members who worked on the project are: Todd Brandehoff, Ken Clair, Paul Coyas, Gary Fuller, Don Norris, Bev Still, Paul Waldmann, and Ray Wilson.

BRAINSTORMING THE PROBLEM PROVIDES A GOOD SOLUTION

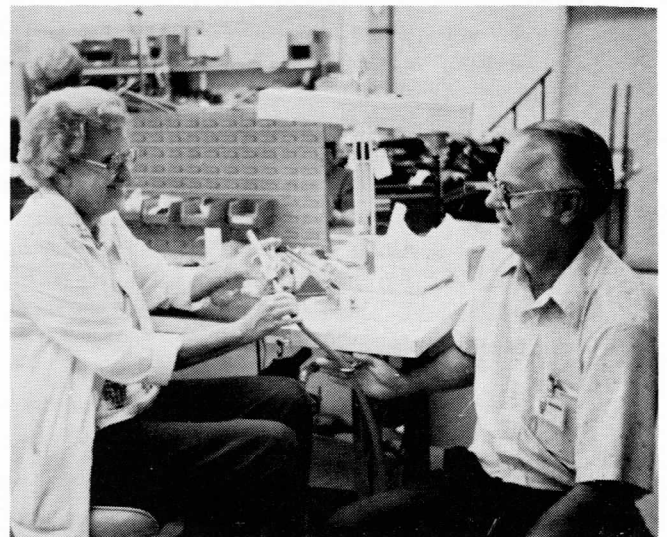
As part of our electrostatic discharge control program, a special ionizing air nozzle and ionizing air gun are among the tools being used in Assembly. The air gun, attached to a hose and compressed air source, lifts dust from surfaces while eliminating the static charge.

Keeping the tool within easy reach at a busy work station called for finding a convenient place to store the tool -- without having the nozzle and hose slip off the table and drop to the floor.

Edie Himes, one of our long-time Assembly employees, suggested, "Why not rig it up like the water hose at my kitchen sink at home?"

Manufacturing Engineer Harry Wendt took that suggestion and did some brainstorming. With the assistance of Don McCrea, of Machine Repair, Harry converted a simple, heavy metal hook into a loop to hold the air gun, and attached it to the edge of Edie's work table.

The result? The air gun is now conveniently located and securely fastened. Another successful solution to a day-to-day problem -- thanks to the suggestions and know-how of employees working together.



Edie Himes demonstrates how the air nozzle is safely within reach. Harry Wendt's right hand indicates how the sturdy hook holds the ionizing air gun and hose.



SAFETY AWARENESS PAYS



A REAL TIME SAVER

COMPUTERS LINKED TOGETHER FOR SCHEMATIC DESIGN SYSTEM

An innovative design system has been introduced in our Design & Drafting and CADDs area to help in producing schematics, net lists, and parts lists for printed wiring boards. Printed wiring boards are a vital, basic part of our very sophisticated electronic products. (CADDs stand for Computer-Aided Design & Drafting System.)

The FutureNet Schematic Designer system uses an IBM Personal Computer for interface between the CADD System (using "Crosstalk") and the AMAPS IBM computer main-frame system (using "Irma"). "Crosstalk" and "Irma" are computer programs which facilitate the user's ability to "talk" to the computers.

This linkage provides the capability of transferring parts lists from AMAPS to the FutureNet system, and reformatting them into a component insertion table suitable for CADDs.

"This provides a cross reference of the physical characteristics of components to our ten digit number and eliminates the very tedious task of typing in the name for each component," explains Jay Boardman, of CADDs. Jay has been working on the early stages of the FutureNet installation.

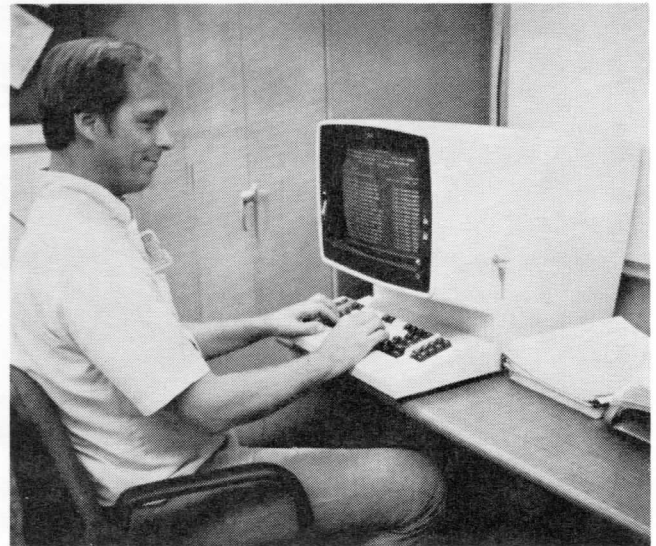
"The FutureNet system provides electrically intelligent schematics from which a net list can be extracted," Jay explained. A net list provides the pin - to - pin connections on a printed circuit board. Through the use of Crosstalk, net lists can be reformatted and transferred to the CADD System, enabling the CADDs autorouting program to be used more efficiently.

(Autorouting is a computer program by which the lead from one component can be connected to the proper lead of another component via an automatic computer process -- rather than the time-consuming process of manually laying out the lines on P.C. boards. When there are many components and many pins or leads to be interconnected, the process is complex and tedious.)

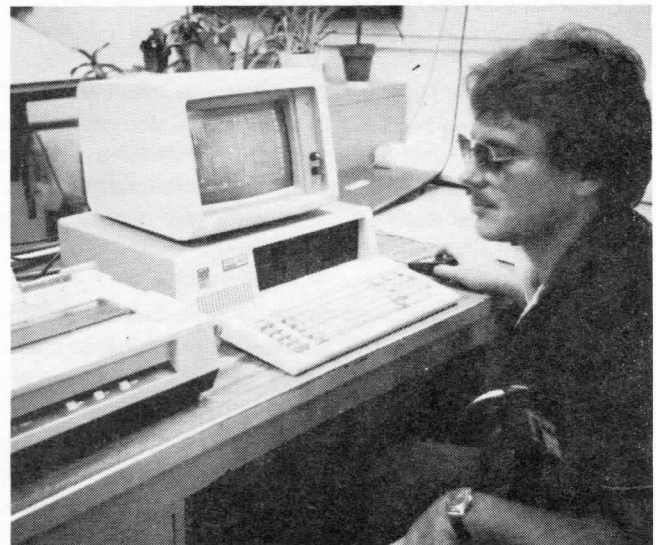
Formerly a net list had to be typed into a text file for use in autorouting a printed circuit board. This new method saves time and eliminates typing errors.

A sample of this new method was recently accomplished on an Auto Frequency Control Board with a density of 2.5 sq. in. per integrated circuit (not one of our denser boards). A 100% route was accomplished. The placement of components took eight hours, and the autoroute took 15 minutes to hook up all the leads. It is estimated that this autorouting is a saving of four or five days (32 to 40 hours) of manual effort on this one board.

"We hope to add additional equipment to expand this FutureNet Schematic Designer System before long," said Greg Purdom, Manager of Design & Drafting.



1. *Parts List Retrieval -- Jay Boardman uses the copy/edit function of AMAPS to retrieve a parts list. A software program implemented by Jay and Mike Rhodes (MIS Data Processing) will then allow the parts lists to be sent on-line to CADDs. CADDs stands for Computer-Aided Design & Drafting System.*

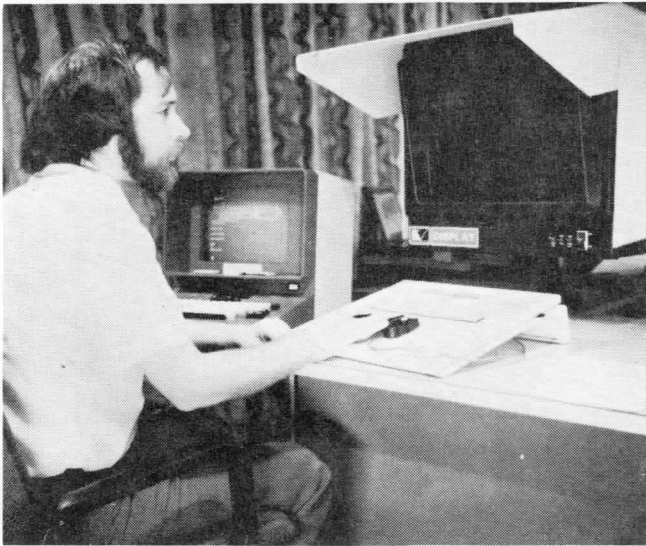


2. *Ron Zoerner, of Design & Drafting, is pictured at IBM PC/XT computer waiting for copy of schematic (visible on CRT) just completed with the FutureNet system.*

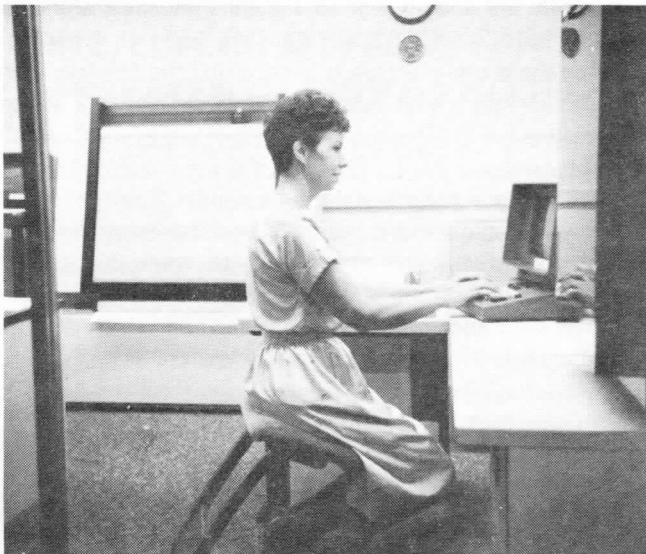
In addition to the net lists and parts lists, it will also be possible in the near future to produce a wirelist for our wirewrap machines directly from a schematic and transfer this wirelist to the wirewrap machines in Assembly. Jim Hornberger, of Telemetry R&D, is currently developing this procedure.

COMPUTERS LINKED

(Cont'd from Page 4)



3. Printed Circuit Board Autorouting -- Chuck Arterton begins autorouting procedures on a PWB (printed wiring board) using data entered into CADDs from FutureNet and AMAPS. The saving comes from not having to enter parts lists and net lists by hand.



4. Final Documentation -- Darrell Powell is shown generating the artwork, drill tape and CADDs drawings for a package to be released to Production. The computer room in CADDs was recently centralized for temperature and humidity control. Notice Darrell's "ergonomic" chair.

LOBBY RENOVATIONS TO BEGIN SHORTLY

Major improvements are scheduled to begin shortly on the front entrance, main lobby, and downstairs conference room area of our building, according to Frank Bloechl, Facilities Manager. The architectural drawings are complete, and approval for construction has been received. Contractors are bidding on the job, and work is expected to start very soon.

A temporary lobby, reception area, and switchboard will be set up at the southeast corner of the Administration section of the building. When lobby construction starts, access will be via the doors at the southeast corner of the Administration building, at the Blue parking lot.

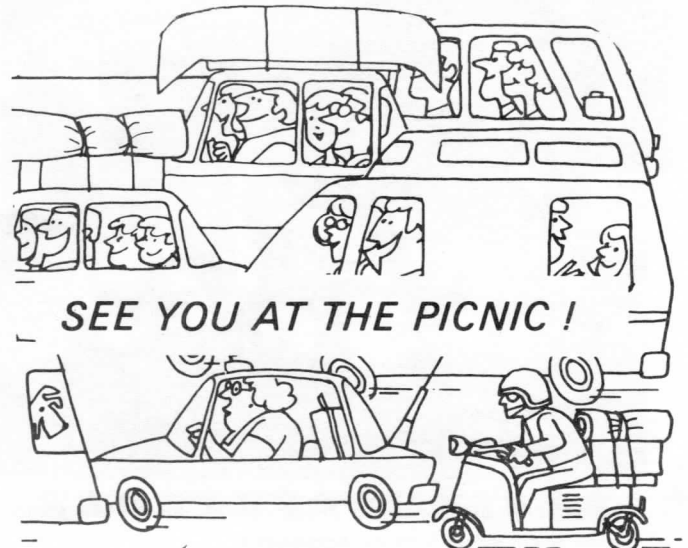
Announcements will be made to all employees as soon as a firm construction date is established.

STUDENTS COMPLETE GED TUTORING AND TAKE TEST

A group of 24 employees completed the GED tutoring course given at Data Systems Division during the past several months, and took the examination this month. The State-supervised battery of tests were given on September 4 and 6, and ran for seven hours. Students will be advised of the outcome of their tests in several weeks.

GED stands for General Educational Development and the GED program leads to the equivalent of a high school diploma. The tutoring classes were sponsored by Data Systems Division in cooperation with the Sarasota Vo-Tech Adult Continuing Education group.

"We are very proud of the employees who conscientiously pursued their studies for the GED exam, and want to congratulate each and every one for an outstanding effort," said Dexter Nash, of Personnel.



SAFETY AWARENESS PAYS

Safety awareness and safe practices are your best bet to avoid painful injury. Accidents hurt. Be careful, and be safe!

THESE EMPLOYEES TAKE "ONCE-IN-A-LIFETIME" VACATIONS

Joe Faso (Equipment Recorders Engineering) and his wife Caryl are equestrians who take vacations that give them the opportunity to enjoy riding as much as possible. This year it was a ride on horseback through Andalusia -- a section of southwestern Spain -- where they literally rode their way over the countryside July 6-20.

The couple flew to Madrid and then Seville -- delays and airline strikes notwithstanding. There they met their fellow horse lovers. The Rutas A Caballo group consisted of eight guests and a guide, plus some attendants who cared for the horses at the various stops along the way.



Walking horses through town of San Jose del Valle

Each day was planned for five to eight hours of vigorous cantering which at times extended to a flat-out gallop. It was hot and dusty, but a good breeze made it pleasant. Lodging was at old, historic ranch houses, or small hotels, and there were picnic lunches on the trail.

"We had to stop at the small village bars during the day because we got so hot and thirsty," Joe said. "On some



Breakfast at 500-year-old Finca (farm) where the group began their adventure on horseback.

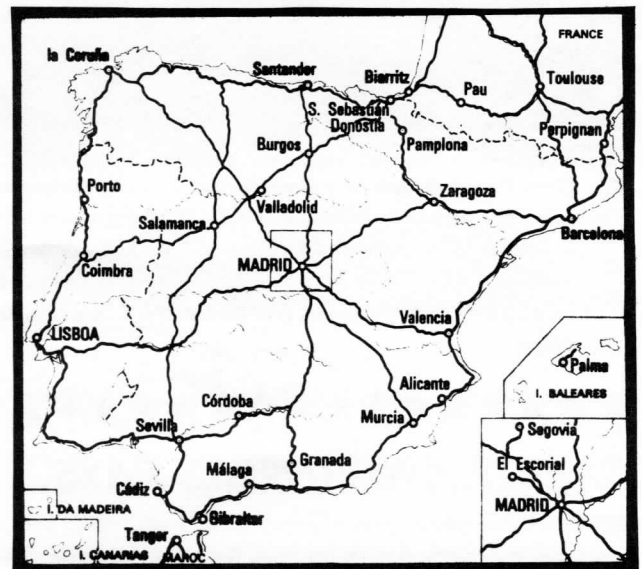
days we rode through the middle of towns or villages, and all I could think of was the movie, 'The Magnificent Seven.' Part of the country side was rugged and mountainous, and some Clint Eastwood 'westerns' were filmed in this region," Joe said.



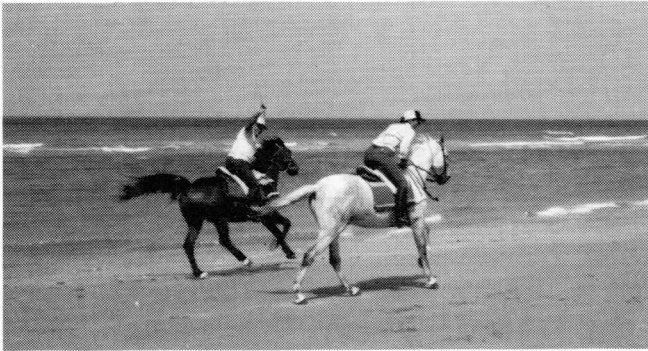
Plaza at Medina Sidonia, province of Cadiz

Along the way they saw huge cattle ranches, and stopped at a farm that raises bulls for the bull ring. People were friendly and waved at the mounted strangers as the group passed through the towns. For four days they rode along the magnificent Atlantic Coast beaches west of Gibraltar -- along the water or on roads overlooking the Atlantic. In the distance they could make out Tangiers and the African coastline.

Caryl's journal described the countryside: "Farms had fields of wheat, yellow sunflowers, and bright green sugar beets, and gray-green olive groves. There were thistles, and brambles of morning glories and fig trees. Snails covered fenceposts, and some of the trees had bark which had been cut for cork. In the distance a small town of white buildings dotted the hillside."

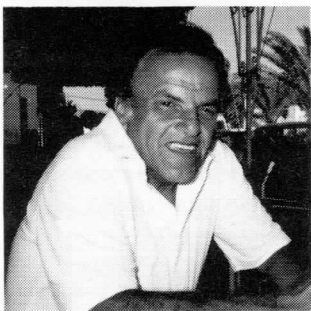


"ONCE-IN-A-LIFETIME" VACATIONS



Joe and Caryl Faso canter on the Atlantic beach.

The group rode English style and gained much respect for the great endurance of Spanish-bred horses. It was a strenuous 13-day trip, but a once-in-a-lifetime vacation.



Joe Faso



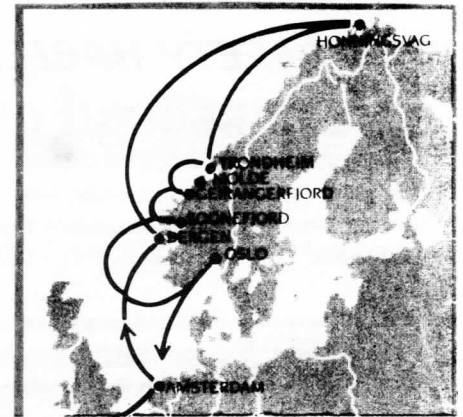
Caryl Faso

Nancy Du Plantier (SPS) and her husband Ty took the luxury route for their vacation of a lifetime. They were scheduled to fly to Amsterdam on July and board the S.S. Norway, the biggest cruise ship in the world, for a 14-day North Cape cruise beginning on July 28. A hail storm in Atlanta kept them from their scheduled connections, so they flew to London, and then Bergen, Norway, to catch up with their ship two days late.

The 1000-foot-long cruise ship, complete with lavish entertainment, and elegant food and drink, became their

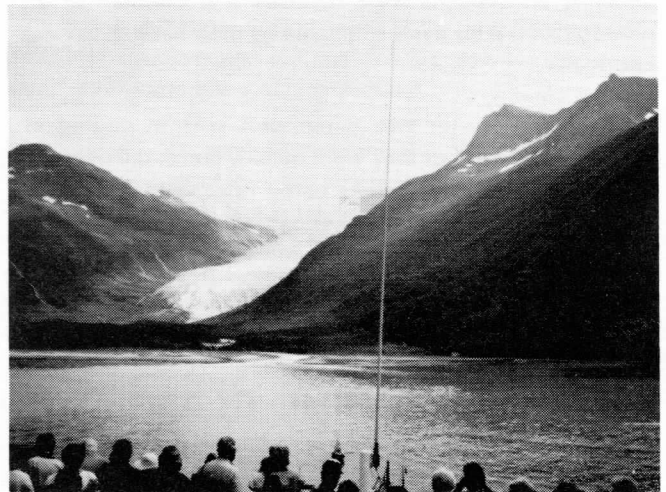


Nancy and Ty Du Plantier with trolls



home as they visited the scenic wonders of Norway -- awesome glaciers, sheer cliffs rising above ice blue fjords, medieval stave churches, and the Midnight Sun. There, above the arctic circle, from May to August the sun does not drop below the horizon for 79 consecutive days. Their sightseeing included ancient Viking long boats in an Oslo museum, and Thor Heyerdahl's original Kon Tiki raft.

After the cruise Nancy and Ty toured from London to Amsterdam, Germany (including a Rhine cruise), Luxembourg, Paris, back to London, and finally home, for a grand total of 27 glorious days.



Norway's magnificent glaciers and fjords.



Nancy and Ty Du Plantier took a Hovercraft from Dover to Calais.

THE SAFETY HABIT -- SAFETY RECORD GROWING

Our plant safety record at press time stands at 543,856 hours without a lost-time accident -- thanks to YOUR safety awareness.

Do you know your Safety Representative? Members of the Data Systems Division Safety Committee are: Eldon Andrews, Bob Boyer, Skip Brawn, Wayne Brinton, Bernie Cori, Ed Domrzalski, Bill England, Gene Flagg, Debbie Graham, George Keegan, Alyene McCoy, Dexter Nash, Jim Norton, Fred Paine, Bill Shaw.

Please get acquainted with your Safety Representatives, and make them aware of your safety concerns and recommendations. Safety awareness needs everybody's support.

DIRECT DEPOSIT A SUCCESS

Our new payroll direct deposit system went "live" as of the pay date August 31. According to Payroll Supervisor Beth Jenkins, all deposits were received and credited to the proper account for each employee by their bank or savings and loan.

"There were one or two minor problems in coding of account numbers, but they were quickly corrected over the telephone, with no deposits being rejected or returned," Beth said. If you have questions about the electronic transmission of your weekly payroll to your personal bank account, please call Karen Peterson, Ext. 372, or Beth Jenkins, Ext. 145.

SERVICE TRAINING CLASS ON MODEL 9 GIVEN HERE

A Service Training Course was presented at Data Systems Division September 17-28 on the Model 9 Tape Recorder. Representatives from Marubun, Japan; Sangamo Electric, Germany; and Enertec, France, attended the sessions. In addition, our Field Service group was represented by Joe Lazarony (Manchester, N.H.), Tom Kelly (Puyallup, Wash.), Rick Phillips and Jerry Stubbs, of Field Technical Support, based in Sarasota. Tech Writers Mike Eddins, Roy Gibson, and Gene Zeak also attended the course which was taught by a team of 10 of our in-house experts on the Model 9 Data Recorder.

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IT'S ALMOST TIME FOR OUR PICNIC!
SAVE THE DATE -- OCTOBER 13TH
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CREDIT UNION NAME OFFICIALLY CHANGED

Official approval has been received from the State of Florida to change the name of our Employees Credit Union. The Credit Union is now known as the FAIRCHILD SARASOTA CREDIT UNION. The organization was established on January 4, 1967, as the EMR Sarasota Employees Credit Union.

New employees are eligible to join the Credit Union 90 days after joining the Data Systems Division. For more information about the advantages of Credit Union membership, stop in the Credit Union Office, or call Lillian Conway, Ext. 535.

EMPLOYEE ACTIVITIES ★★★

★ SOFTBALL TEAM DID WELL

Fairchild Weston's Women's Softball Team finished in third place for the season with a 6 and 6 win/loss record. Despite injuries, the team made the tournament, but lost the tournament game in the extra inning, 14-12. Congratulations on a successful season to players and coaches!

★ SCUBA OR SNOW SKIING?

The Data Systems Division SCUBA group is sponsoring a new entry level SCUBA class starting on Monday, October 1, at 4:45 p.m. There will be class sessions, pool and beach sessions, and plans for a 1985 diving trip, similar to the 1984 Cozumel trip. Under consideration are Jamaica, Haiti, or Cozumel. For more information call Graham Hildebrand, Ext. 283, or Dick Van Deusen, Ext. 220.

★ DIFFERENT CLIMATE, JUST AS MUCH FUN!

David Payne, Ext. 471 and Beth Putnam, Ext. 435, are interested in forming a group to go snow skiing this winter. A skiing trip out west or to Austria is a possibility. Please call Beth or Dave if you have any interest.

★ WINNING TEAM

Todd Brandehoff (Design & Drafting) and Rick Mitchell (Telemetry R & D) competed in the City Best Ball golf tournament at Bobby Jones Country Club September 8-9. They finished in second place in their flight, missing first place by one stroke. The team won a \$100 gift certificate. There were 100 teams in the competition.

SAFETY AWARENESS PAYS