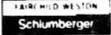




**FAIRCHILD WESTON
SYSTEMS INC.** 

FAIRCHILD WESTON SYSTEMS INC.
DATA SYSTEMS DIVISION
P. O. BOX 3041
SARASOTA, FL 34230

**CELEBRATING OUR 31st YEAR
OF PROGRESS IN SARASOTA**

VOLUME X, NO. 10/11

OCTOBER/NOVEMBER, 1988

JUD STROCK PUBLISHES NEW TELEMETRY BOOK

Jud Strock, Telemetry Applications, has just published his third book on Telemetry. The 384 page hard-back *Telemetry Computer Systems -- The New Generation* by the Instrument Society of America (ISA) supersedes his *Telemetry Computer Systems -- An Introduction* which was published in 1983 by ISA and Prentice-Hall. PULSE interviewed Strock recently, and brings you his story.

Jud told PULSE, "Telemetry technology changes so rapidly that a five-year span is about the limit for a book on the subject. This one uses several of our products for examples--products which were not available when the earlier book went to press in 1982. These include our 5000 Series Airborne PCM, 8000 Series Ground PCM, 8715 Pre-processor, 8470 Digital Discriminator, and database software. In all, the book has photographs from about a dozen manufacturers to illustrate current applications of the technology. As you might guess, our products are used most frequently."

Because of many suggestions from readers of the first book, this one is expanded to include FM Telemetry and SCADA Industrial Systems. The chapter which Jud says was the most fun to compile was one on telemetry history in the United States since 1943.

Incidentally, you may recall that Jud wrote another book entitled *Introduction to Telemetry* in 1986. That book is very basic, and was prepared at the request of ISA to be part of their "independent learning module" series. It is not in the same class as this new, more thorough coverage.

"Even though only one name is shown on the cover of this new book, I consider it to be a product of the entire telemetry group in Sarasota," Jud says. "The world expects our company to lead the way in books as we lead the way in hardware and

software. There is no way that a book from anyone in any other company could have the acceptance of a book from our division."

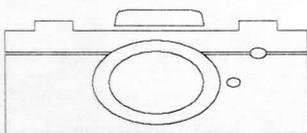
A technical book is not a sales document, of course. However, many of our customers and potential customers have copies of Jud's first book, and we know that several substantial sales have been influenced by the book. This is perhaps most noticeable in overseas agencies, where there is a lack of technical information on telemetry, and a book on the subject is appreciated even more than in America.

The acknowledgments preface to this new book includes this tribute to FWSI employees:

"I am indebted to my associates at Fairchild Weston Systems Inc., including fellow Applications Engineers Wiley Dunn, Tim Gatton, Ken Slezak, Art Kelley, Gary Schumacher, and Joel Weber for their day-to-day consultation. Others in the same company include Chief Scientist, Bill Waggener, Design Engineers Jack Snider, Hal Roberts, Mike O'Brien, and others; and Programmers Dale Roedger, Jim Massing, and others."

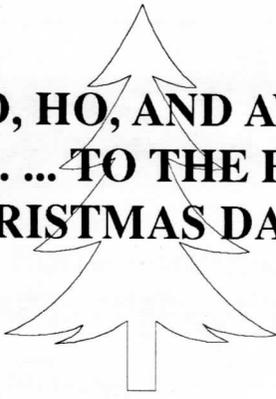
"Among my enthusiastic supporters were the Sales Engineers of the same company, led by their Manager, **Bud Hinkel**. **Wyatt Bishop** and others reviewed the draft manuscript and made helpful suggestions. Others who lent moral support were **Larry Edwards**, **Carl Steineckert**, **Terry Miller**, **Bob Sayre** and **Paul Mears**."

"Our Export Manager, **Bud Thurmond**, and his assistant **Harry Durrett**, deserve a hand also. Some of my greatest support has come from their agents in other countries... **Frank Grace** in the United Kingdom, **Peter Kirf** in Germany, **Jean-Marc Loeser** in France, **Gianni Legnani** in Italy, **Dave Poleg** in Israel, **Aspi Kolah** in India, **H. T. Liu** in Taiwan, and the entire staff at Marubun in Japan, among others."
(Continued on pg. 3)



PICNIC PHOTOS INSIDE!!

HO, HO, HO, AND AWAY WE GO. ... TO THE FWSI CHRISTMAS DANCE



United Way

IT BRINGS OUT THE BEST IN ALL OF US

This year's theme for our gala Christmas Ball is "THE GIFT OF GIVING".

To make this a special event, the dance committee has decided to try to give some of the area's needy families a Merry Christmas. We are asking everyone who can, to join them in this Christmas project.

There will be large decorated boxes placed in the back of the Cafeteria, all of the break areas, and in the interior lobby by the fish pond. There will also be boxes placed at the entrances of the plant and we are encouraging all of FWSI's employees to donate. There will also be a box at the dance.

We are asking that you bring canned goods and other non-perishable items and toys. If you prefer to give cash, please give this to one of the dance committee members - **DO NOT PLACE CASH IN ANY OF THESE BOXES!** The cash will be turned into gift certificates for food that may be redeemed at area food chains.

If you know of a needy family, please contact a committee member and give them their name and address.

Let's show Sarasota that the folks at FWSI care about the needy families in our area. The greatest gift we can give is to share with those less fortunate than ourselves.

We, as your committee, are very proud of this year's event and we are looking forward to an excellent night out on December 17th with good food, good music and wonderful gifts. See you at the dance ... may you have a very Merry Christmas and a Happy New Year.

To submit a name please call one of the following committee members:

- Evelyn Christian Ext. 5508
- Pearl Jennings Ext. 6867
- Barb Rich Ext. 6827
- Mike Salone Ext. 6903
- Debbie Sutor Ext. 5507

Reported by: **Pearl Jennings and
Evelyn Christian**

Balloons, yellow cards, a chicken and a band, United Way Brochures and "FWSI United Way 1988" blue fuzzies--these are the look of this year's United Way fund drive. Forty volunteers fanned out during the week of November 7th to spread the word and encourage maximum participation in FWSI's only company-wide giving program.

The volunteers are the heart of FWSI's grass roots campaign. Many have personal stories about how United Way agencies have come to the aid of families in need. One told about how she had a Big Sister when she was growing up thanks to the United Way and another wrote about the care, understanding, and therapy provided to a young family member who was brutally attacked and raped. Another worked at the Helen Payne Day Nursery where the United Way provided a trained child care worker and others reported on the many good things being done at the Children's Haven and Adult Center here in Sarasota.

This year's goal is \$40,680. Volunteers were so eager that many had the campaign going even before the official kickoff on Monday. In fact, we had 12.4% of the goal two days before the campaign officially started, and 24% by the kickoff.

Making FWSI's impact on the community even greater is the company's contribution, announced by **Carl Schleicher**. He has pledged \$10,000 to the campaign on behalf of FWSI, or about \$1.00 for every \$4.00 given by employees. If we make our goal, our total gift will be over \$50,000.

Your contribution will help thousands of people in 1989. Money will be going to Manatee, Charlotte, and even Hillsboro County United Ways, as well as Sarasota. Thanks to you, it's working.

Reported by **Marie Keeney**,
1988 Campaign Coordinator

1988 Fairchild Weston Key Technology Symposium - A Real Success!

The Annual Fairchild Weston Key Technology Symposium is a mechanism to recognize the contributions of our own technologists and engineers. It is a conference designed to bring together their ideas and findings on technology with those of outside authorities.

The 1988 Fairchild Weston Technology Symposium was held at the Van Wezel Auditorium. The keynote address, "Evolution of Computer Data Acquisition Systems at the Wellsite" was given by **Mr. Howard Neal** of the Schlumberger Austin Systems Center. He explained how computers acquire data from geologic subsurfaces and other properties of formations through which an oil well has been drilled.

John Mallinson, for the University of California at San Diego, spoke on the future of magnetic recording. **Dr. M. Dancygier**, of Schlumberger Montrouge Research Center, compared magnetic with optical recordings. **Guy Lelandais**, of DAR - Velizy, discussed PEGASE Rotary Recorders, which are being developed in France. **Ralph Wight**, Technical Director of the Electro-Optical Systems group in Syosset, outlined the parameters of electro-optical recorders. Our own **Mike O'Brien** explained the architecture and design of the Model 8715 pre-processor. **Ken Coonce**, also of Data Systems Division, read **Jim Massing's** paper on the use of data bases in telemetry processing systems.

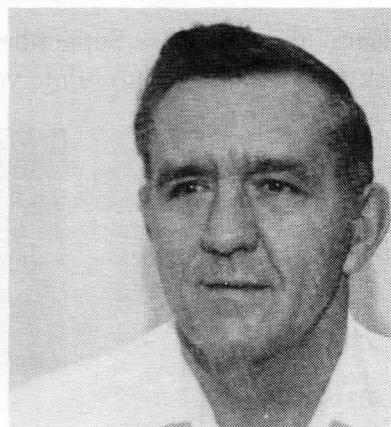
As usual, time constraints made it impossible to invite all qualified individuals to speak. Yet, there was a need to provide more information than could be formally presented in one day. Therefore, poster-papers were displayed at the bayfront campus of the **University of South Florida** at Sarasota. **Louis Andreatta**, **Steve Crabtree**, **Mart Dismukes**, **Jim Fillion**, **Wayne Lockwood**, **Bill Mandakis**, **Phil Van Atta** and **Bill Waggener, Jr.** of DSD, **Steve Chew** of ESD and **Tom Traynor** of EOS summarized their work on posterboards, and made themselves available to answer any questions concerning their projects.

The highlight of the symposium was the presentation of the Key Technologist Award during the Luncheon at the Hyatt Hotel. **Mr. Louis H. Pighi**, President of Fairchild Weston Systems, Inc., presented the prestigious award to **Gene Hart** of Control Systems Division for his many and varied contributions to our corporation and its development.

The symposium was exceptionally interesting and **Bill Waggener, Sr.** says to tell you that a fine time was had by all!

Reported by: **Cathy Kater**

IN MEMORIAM



JAY LAWTON

Aubrey "Jay" Lawton, an FWSI employee for 26 years, died on September 13, 1988. Jay joined our company on February 5, 1962 as a Technician. Most recently, Jay was Supervisor of the Calibration Lab. He was born in Buffalo, NY and came to this area 35 years ago.

Jay is survived by his wife Joan, a daughter, Mary of Sarasota; two sons, Maj. David J. of Castle Air Force Base in Winton, CA; and Lance Cpl. Allen J. of Camp Pendleton, CA; two grandchildren and his mother.

Jay will be greatly missed by his many friends and co-workers. Our heartfelt sympathy goes out to Jay's family.

("Strock", continued from pg. 1)

"In the mechanical details of putting these words and drawings on paper, I was helped immensely by **Jon Wolf** and his Graphics Group, **Kathy Boley** and her Word Processing Group, and **Terry Cori** and **Jim Graham** of the Applications Engineering Group."

Jud says this is his last Telemetry book. He feels that telemetry users need a book of this nature every five years, though, and hopes that someone in our division will be ready in 1993 with the next one (Telemetry III). He is eager to work with that person or persons in making the arrangements with a publisher. Any volunteers???

EMPLOYEES CELEBRATE SERVICE ANNIVERSARIES!!

During the months of August, September, and October, 64 FWSI employees celebrated many years of service with the company. We are proud to salute you and your years of dedication as you celebrate your achievements!



AUGUST

Front Row (L-R): Greg Williams (10 yrs.), Becky Walser (10 yrs.), Sydney Eaton (10 yrs.), Ann Mongillo (15 yrs.), Purvis Sanders (30 yrs.) **Back Row (L-R):** John Belt (25 yrs.), Gary Fuller (5 yrs.), Myron Klineschmidt (10 yrs.), Robert Carlson (10 yrs.), David Kolchakian (10 yrs.) and Adam Leonard (10 yrs.). **Not pictured:** Larry Dunham (30 yrs.), Chuck Jones (25 yrs.), John Keal (15 yrs.), Gary Schumacher (10 yrs.), Barb Rich (10 yrs.), Fuad Ali (10 yrs.), Judy Lamp (10 yrs.), David Richards (5 yrs.), and Cora Hoff (5 yrs.).



SEPTEMBER

Front Row (L-R): Dale Woodland (10 yrs.), Sue Sutherland (10 yrs.), Mellonee Houston (10 yrs.), Miriam Smith (15 yrs.). **Back Row (L-R):** Robert Moore (15 yrs.), Dale Dennis (25 yrs.), Mike Harris (5 yrs.), Arthur Smith (15 yrs.), and Doyle Jones (10 yrs.).



SEPTEMBER

Front Row (L-R): Kathy Ling (10 yrs.), Lillian Conway (15 yrs.), Ann Bassett (10 yrs.), John Elliott (10 yrs.). **Back Row (L-R):** Dick Vandeusen (August, 15 yrs.), Robert Williams (10 yrs.), Fred Paine (10 yrs.), Ronald Zoerner (5 yrs.), and Walter Holmes (10 yrs.). **Not pictured:** Harry Durrett (25 yrs.), Patricia Williams (10 yrs.), and Shirley Smith (10 yrs.).



OCTOBER

Front Row (L-R): Chris Lawson (10 yrs.), Beverly Gill (5 yrs.), Dorothy Berner (5 yrs.), Chris Govaars (5 yrs.), Shirley Strom (5 yrs.) **Back Row (L-R):** Skip Brawn (30 yrs.), Dick Dungan (30 yrs.), Burton Schmitt (10 yrs.), Bill England (20 yrs.), and Cinda Whaley (10 yrs.). **Not pictured:** Jake Sims (15 yrs.), Alma Sanger (10 yrs.), Rita McCrea (10 yrs.), Cheryl Martin (5 yrs.) and John Jorgensen (5 yrs.).



OCTOBER

Front Row (L-R): Nick Ostrye (15 yrs.), Judy Brewer (5 yrs.), Steve Creech (10 yrs.), **Back Row (L-R):** Bill Cox (10 yrs.), Vince Supple (15 yrs.), Murray Bassett (10 yrs.), Hutch Ferrugia (10 yrs.), and Mike Mace (5 yrs.).

ROUTINE BLOOD PRESSURE CHECKS ARE LIFE-SAVING

When was the last time you had your blood pressure checked? If it has been over one year, you are neglecting a simple, quick, and painless test that could save your life. This past September, health histories were obtained from our contract employees. In the event of a medical emergency the nurse would have some basic knowledge of their health problems. As part of the health history, blood pressures were measured. When **Betty Cochran**, a contract employee, had her blood pressure measured, it was found to be in the "stroke range"! This means that Betty's pressure was dangerously high and immediate medical attention was necessary to prevent a life threatening stroke or heart attack.



Betty Cochran has her blood pressure checked by FWSI nurse, **Debbie Graham, R.N.**

Betty had no idea that her blood pressure was elevated. This is why high blood pressure is called the "silent killer". There are no symptoms that something so devastating is going on within your body. Betty was referred to a physician, who saw her that very day, started on medications, and has now gotten her blood pressure down to normal ranges. Betty says, "I appreciate our nurse and think it's wonderful that the employees have someone to go to. I know how lucky I am and encourage everyone to have their blood pressure checked. It only takes a minute and it could save your life." Please won't you call the dispensary today, and schedule an appointment for a blood pressure check? It could save your life.



Fairchild Weston - The Hit Of The Show!

This year, as in years past, Fairchild Weston attended the **International Telemetry Conference**, October 17 - 20, held at the Riviera Hotel in Las Vegas, Nevada.

The booth that we occupied at the show was our newly built 20 foot by 20 foot module, with a walk-through concept. By all accounts, our new booth was the hit of the show.

Data Recorders Division displayed their Model 12, Model 20, and Model 85 Data Recorders. Data Systems Division had the EMR 5500 All-Bus Instrumentation System, the System 90 software package using DEC work-stations, and the EMR 8470 Digital Discriminator.

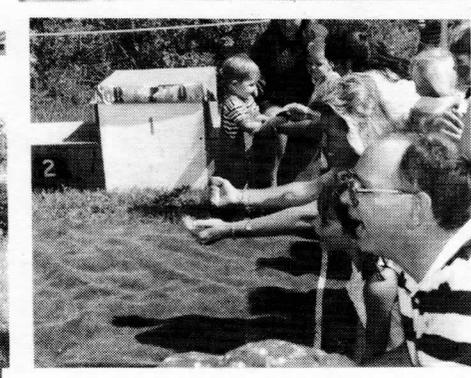
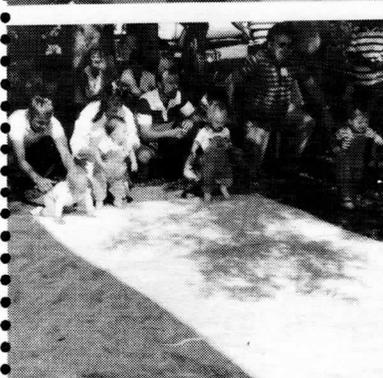
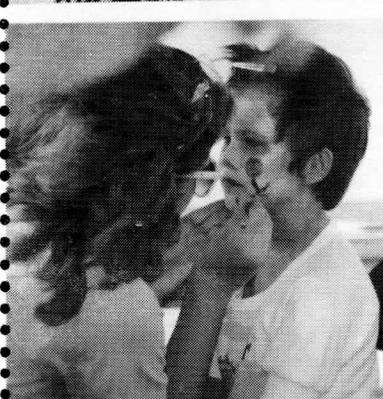
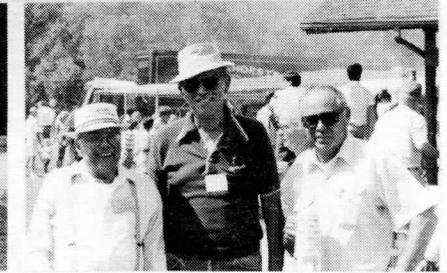
Data Systems also presented several technical papers at the show: **David Payne** on the EMR 5500, **Jim Massing** on our 8715 Database software, **Mike Meesit** and **Scott Rowe** on the System 90 software, and **Art Kelley** on the White Sands Telemetry System. **Jud Stroock** also held a 3 hour tutorial called "Trends in Telemetry", depicting the future of telemetry.

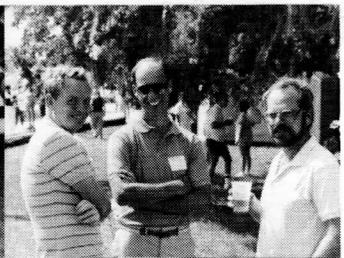
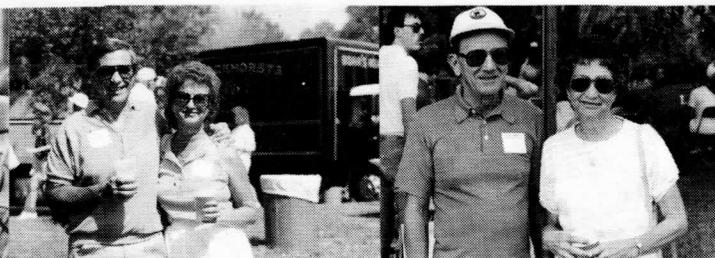
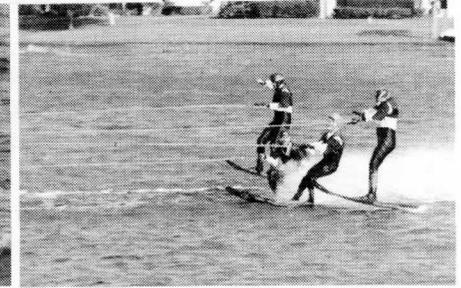
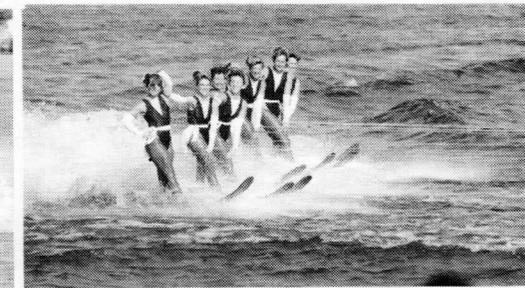
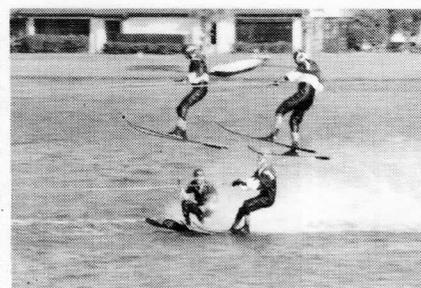
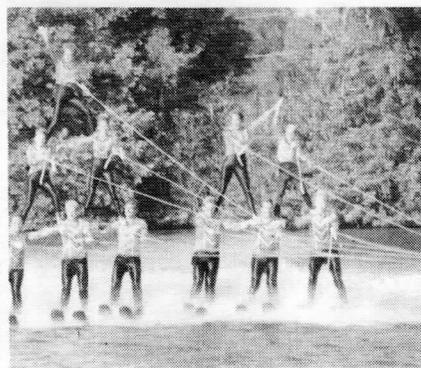
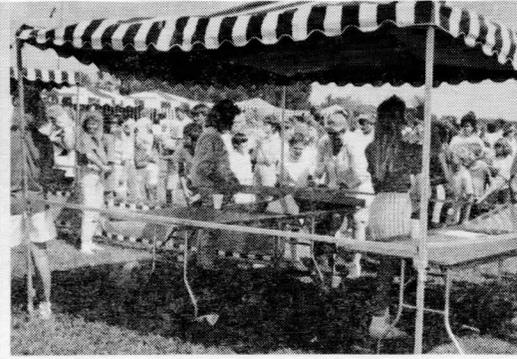
Also at the show, representing the Worldwide Telemetry organization, was the 3700 Decommuation System, which was designed and manufactured at the Velizy, France location. Supporting us from France were **Jean-Marc Loeser** and **Mark Saint-Cyr**.

Data Systems Division employees can be proud to know that they were well represented at the show, and the envy of many. Congratulations and thanks go out to those who put in many hours of hard work to make this year's show a real success.

Reported by **Tim Gatton**

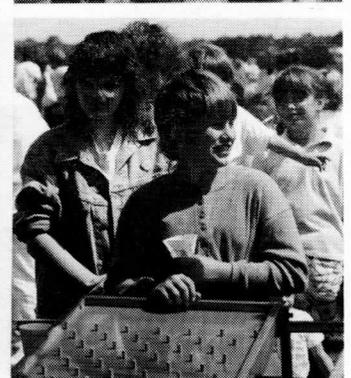
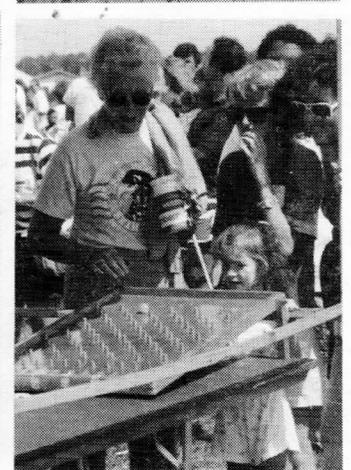
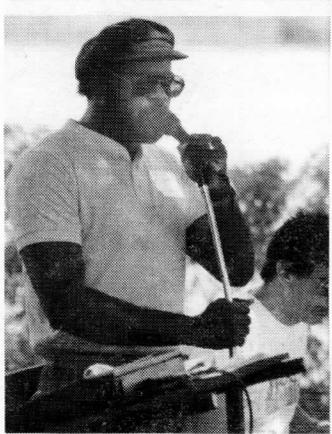
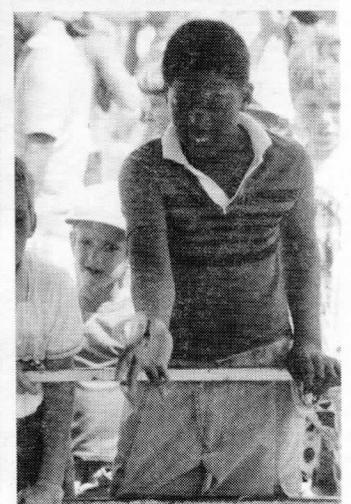
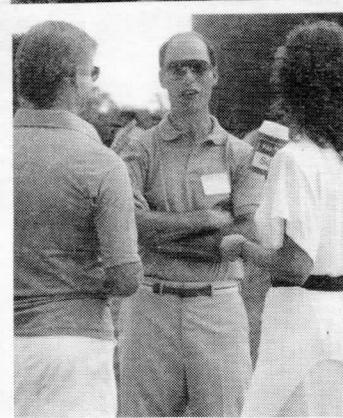
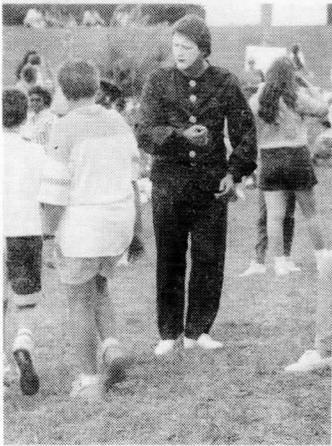
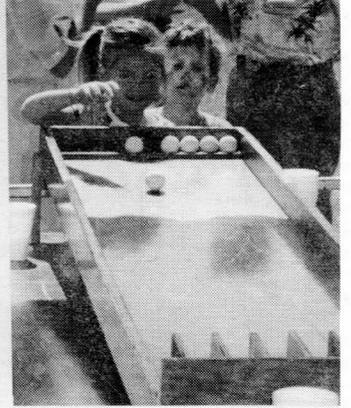
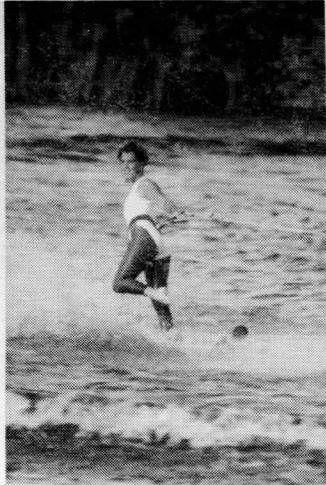
1988 EMPLOYEE PICNIC PHOTOS AND MEMORIES

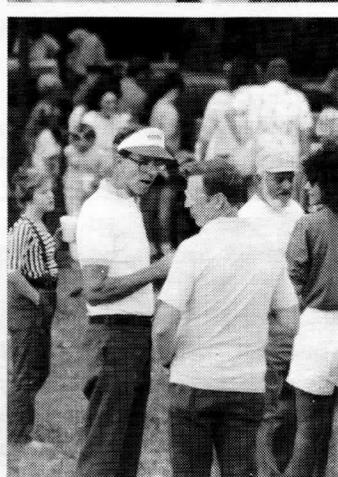
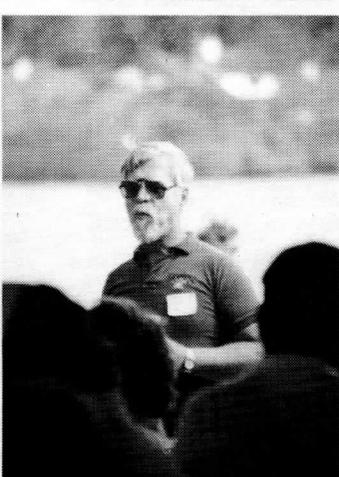
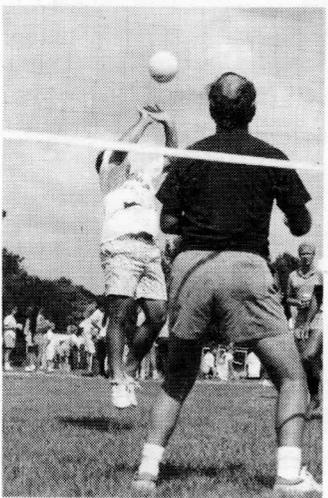
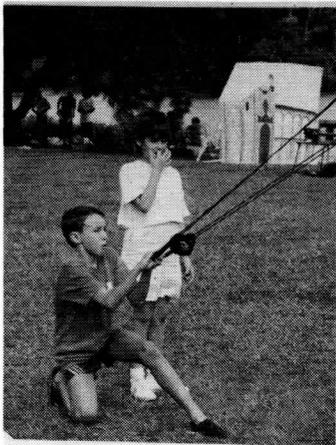




FUN, FOOD, AND FRIENDS!!

1988 EMPLOYEE PICNIC





FUN, FOOD, AND FRIENDS!!

NO LONGER A CHOICE

From the semiconductor manufacturer to the technician who repairs or operates the equipment in the field, Electrostatic Discharge (ESD) is a problem for everyone involved in the electronics industry. In fact, everyone who is involved in the processing, assembly, inspection, handling, packaging, shipping, storage, stowage, testing, installation and maintenance of susceptible parts throughout the equipment life cycle, both at the manufacturer's and the user's facilities, needs to be aware of the damage he or she can do to ESD sensitive devices. While some facilities and locations may have a more severe problem with electrostatic discharge than others; it is still our problem if personnel are engaged in any form of electronic equipment manufacture, test, or repair.

Unfortunately, many people attempt to deny the existence of the ESD problem, or its magnitude for the following reasons:

1. Employees cannot see or feel a static discharge at their work station.
2. People believe ESD is a problem only with CMOS (Complementary Metal Oxide Semiconductor).
3. People believe that protective circuits provided by integrated circuits manufacturer's are sufficient protection.
4. People believe that once a part is installed on a board or module there is no longer a problem with ESD.
5. People attribute failure to other causes.
6. People believe that since we live in Florida and are accustomed to a high humidity environment, they are immune to the effects of static electricity.
7. People are just not informed of the seriousness of the ESD problem.

Awareness, then, is the first step. After a program is set up, the program must be monitored to insure that all personnel continue to follow the proper ESD control procedures.

For a complete ESD control program we need to consider ESD control program guides, the design and construction of ESD protected areas, the preparation of ESD operating, handling, packaging, and marking procedures, the development of an ESD training program, and certification of ESD protected areas, personnel, and grounded workbenches.

To implement a successful ESD control program it is absolutely essential to have the support of all employees. If people are convinced of the need for ESD protective measures, then, they will be willing to adopt protective measures toward ESD protection and make necessary changes in component handling procedures.

The current goal of the Employee Involvement Team, the "Level Two Crew", made up of personnel from throughout the manufacturing facility, is to establish and implement an electrostatic discharge control program at FWSI. In the upcoming months all employees will be exposed to several preventive measures. Employee awareness will be stepped up using ESD pamphlets, videos and training courses. Your cooperation, support, and comments are greatly needed in order to maintain an effective ESD control program.

If you have any questions concerning ESD please feel free to contact me, Scotte Lee Kavanaugh, Ext. 5359, or any member of the "Level Two Crew".

Reported by: Scotte Lee Kavanaugh

CPR SAVES LIVES !! LEARN CPR AT FWSI

This November, CPR Classes will be taught to all interested persons at FWSI. This 4-hour class will certify students in Adult CPR. Included in any CPR class is the Heimlich maneuver, which saves choking victims. The class is open to anyone who is interested in knowing this simple life-saving information. For your convenience, classes will be held here at FWSI, and costs will be paid by the company. The program consists of two, 2-hour sessions and will be held in the FWSI cafeteria, Monday, November 21, and Tuesday, November 22nd. Please call the dispensary, at X-5559, to enroll. If you have a family member who would be interested in CPR, please invite them to join our group.

...NEWS FLASH...NEWS FLASH...NEWS FLASH...

It has just been learned by PULSE that due to popular demand, the November classes have been filled. There will, however, be classes added for December 12th & 13th. Hurry and sign up now before the spaces available are filled.



"The only way Smith would participate in the management presentation was if he could practice his ventriloquism."

JUNE, 1983 - QUALITY CIRCLE DIGEST

HAUNTING HALLOWEEN HAPPENINGS...

October brought out the guys and the ghouls as many celebrated Halloween here at FWSI. In conjunction with the scary day, Wometco sponsored a Halloween Costume contest. The two 1st place winners, **Brian Levanti**, Aviation Recorder Assembly and **Sue Nurczyk**, Telemetry Technical Publications, each won a ham for their creativeness. Appropriate, huh! There were 8 additional winners who each won a free meal at the Wometco Cafeteria: **Paul Waldman**, Design & Drafting (female), **Beverly Still**, Design & Drafting (snowman), **Kathy Lowe**, Receiving Inspection (witch), **Rita McCrea**, Production & Inventory Control (countrygirl), **Rosie Routsong**, Telemetry Assembly (old man), **Jackie Newberry**, Stockroom (bag lady), **Susie Carrico**, PWB Assembly (ape & "ape-ette"), and **Evelyn Christian**, Aviation Recorder Assembly (prisoner). All the other employees who dressed up received a free medium drink from Wometco Cafeteria.



1st Place Female - **Sue Nurczyk**, Telemetry Technical Publications; 1st Place "Male" - **Brian Levanti**, Aviation Recorder Assembly .





BLOOD DRIVE!!

FWSI will conduct a Blood Drive on December 13th, from 8:30 AM until 4:00 PM. Donors are desperately needed. For this drive, all donors will receive a lovely Norman Rockwell tree ornament. In addition, a drawing will be held on December 14th for a \$100.00 Savings Bond and two \$50.00 Savings Bonds!

To schedule an appointment, please call extension 5559. This is the season of LOVE -- share your gift of blood with someone who needs it this Holiday Season!

Reported by **Debbie Graham, R.N.**

FWSI CREDIT UNION NEEDS YOU!



The FWSI Credit Union is presently in need of the following:

- 3 Board Members**
- 1 Supervisory Committee Member**
- 1 Credit Committee Member**

If you would like to help out, and are willing to be a dedicated member of the Credit Union team, please call Lillian Conway at Ext. 5535 for further information.



CLASSIFIED AD FORM

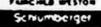
DUE INTO PULSE BY: DEC. 1, 1988

Employee's Name _____

Telephone Ext. _____

Do you want this posted by the cafeteria also? YES ___ NO ___
Mail to: PULSE, M/S 11 or call Ext. 6903

FAIRCHILD WESTON SYSTEMS INC.



Excellence in Defense Systems Technology... Worldwide

COMMUNICATIONS GROUP
DATA SYSTEMS DIVISION
P.O. Box 3041, Sarasota, Florida 34230-3041
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Fax: (813) 378-1893

Address Correction Requested

EDITOR: MIKE SALONE (x6903)

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- DEBBIE GRAHAM, R.N.
- PEARL JENNINGS
- KATHY CATER
- SCOTTE LEE KAVANAUGH
- MARIE KEENEY
- ALMA SANGER
- JUD STROCK

