



**SANGAMO WESTON**  
**Schlumberger**

SANGAMO WESTON, SARASOTA  
P. O. BOX 3041  
SARASOTA, FLORIDA 33578

## NEWS ABOUT SANGAMO WESTON, SARASOTA

VOL. II, NO. 2

FEBRUARY, 1980

### LETTER OF APPRECIATION RECEIVED FROM HUGHES

General Manager Tony Martin has received a letter of appreciation from Hughes Aircraft Company commending the 'dedicated effort' of Sangamo tape recorder personnel. Keith Arrowsmith, of Data Recorders Sales, Irvine, CA, is the Salesman on these Hughes contracts valued at \$800,000 to date. Here's the letter:

HUGHES AIRCRAFT COMPANY  
Aerospace Groups  
Culver City, CA

Mr. Tony Martin  
Sangamo Weston  
Sarasota, Fla.

10 January 1980

Dear Tony:

I want to express the appreciation of the Hughes Aircraft Company for the dedicated effort expended by you and your people in delivering our tape recorder subsystems on schedule. The machines passed their acceptance tests with flying colors and are performing as specified in the integration phase. Field support has been prompt and effective and we are looking forward to continued good support.

We are also looking forward to procuring more Sangamo recorders for the next phase of the program. Thanks again for your dedicated effort and best wishes in the coming year.

Sincerely yours,

(signed) C. V. Smith  
Assistant Program Manager

### NEW FACILITY TO BE BUILT

Plant Engineering & Maintenance is scheduled to begin construction in early March of a 5000-sq. ft. facility to accommodate Data Recorder Final Test, Deck Assembly, and repairs. When completed the facility will have its own air conditioning and heating system for control of temperature, dust and humidity. The location will be in the central section of our building, near the present Data Recorder Test Department.

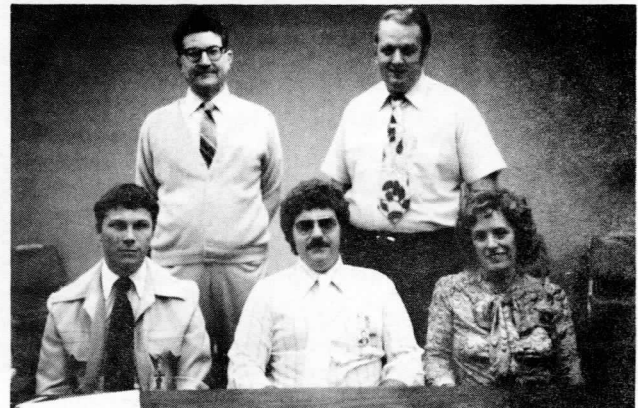
### CREDIT UNION BOARD ELECTED

New members of the Board of Directors and Committees were elected at the Credit Union's Annual Meeting on January 29. The Board now consists of Mike Hutchinson, President; Mike Wright, Vice President; Ed Annaratone, Treasurer, Berenice Henderson, Secretary; Sue Sutherland, Asst. Treasurer; plus Board members Martin Belkin and Don Parker.

CREDIT COMMITTEE: Don Roberts, Chairman; Faye Bragg, Greg Magin.

SUPERVISORY COMMITTEE: Carolyn Cox, Ron Johnson, Carmen Ireson

LOAN OFFICER: Donna Mahler



Credit Union Board: seated, President Mike Hutchinson, Vice President Mike Wright, Secretary Berenice Henderson. Standing, Treasurer Ed Annaratone, and Don Parker. Missing from photo are Board Members Martin Belkin and Sue Sutherland.

### SPORTS NEWS

Bill Whaley, Manager of the Sangamo Weston Men's Softball Team, reports the following employees on the roster for the start of League play about March 10: Robin Speidel, James Hornberger, Gerald Lavelle, Wayne Brinton, Ron Barton, Billy Fincher, Greg Lambert, John Wooster, Russ Winans, Tom Roma, Albert Kamberis, Tom Thomas, David Hart, Kim Sadlowski, Dan Toler, Rob McLendon.

Jess Sotomayor (PC Fab) rolled 107 pins over his average during the recent Sarasota-Manatee County Bowling Tournament, for a high game of 252 and a high series of 576. Others on the team are Jim Huffman, Captain Angelo Jais, Bob Widener, and Bill Whaley, all of the Sheet Metal/ Machine Shop area.

**An Equal Opportunity Employer M/F**

## INTRODUCING THE EMPLOYEES IN ... PRINTED CIRCUIT FABRIC

Our Printed Circuit Fabrication area produces all the printed circuit (PC) boards for our in-house assembly, prototype boards for our Engineering Department, and build-to-print boards for SWS (Schlumberger Well Services) in Houston and France.

There are three dozen, or more, steps involved in the production of a PC board, requiring a wide variety of specialized skills, such as photo sensitizing, chemical processing, electroplating, conventional machining, numerically-controlled (N/C) drilling, N/C routing and inspecting.

In 1979, the PC area produced over 192,000 individual PC boards, or one board every 39 seconds.



*Ed Mongillo*

Ed Mongillo  
Manager, Fabrication



DAVE BROWN (left) and ED CARON are handling boards in the PC Plating area. The process includes plated-thru holes and copper flash.



CLAY OSGOOD (left) is shown working on the gold plating process for the 'gold fingers' (connectors) on the PC boards. Yes, we use real gold at about \$700 an ounce. JESS SOTOMAYOR (right) is working on the copper and solder plating process.



HELEN JACOBS (seated) and Group Leader DOROTHY RICHEY check the boards before the etching process.



RAY ARCHER at etching machine which etches away unwanted copper, leaving the electronic circuitry which is needed for PC boards.



EMMA GREEN (left) and IRMGARD McWHORTER (right) work with numerically-controlled equipment called an N/C Router/Driller, for the very close tolerance hole pattern and board configuration needed in the PC boards.



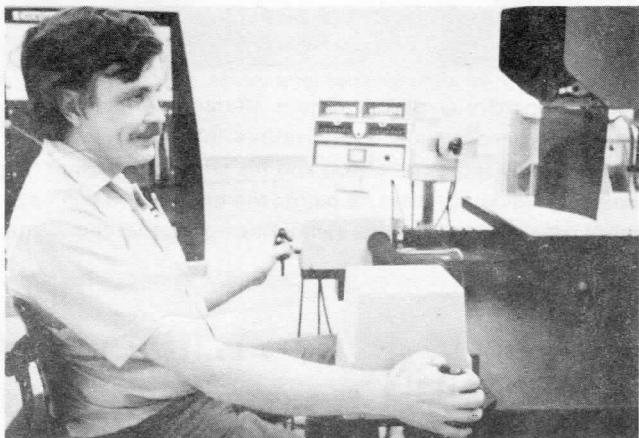
## ATION AND PLATING



Here are the employees on the second shift in our Printed Circuit Fabrication and Plating area. Seated: RUDY MARTINEZ (N/C drill); PAT LAHMERS (Darkroom); JUDY STOLZ (machining and checking). Standing: MARK LAWSON (plating); JOHN THORNTON (chemical maintenance) and RICK RAMOS (plating).

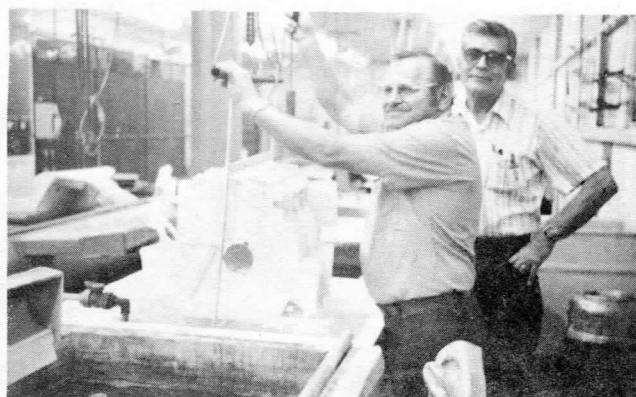


ANN STINTON, at a router, is usually at work in the PC darkroom, where pictures could not be taken. There the copper-clad panels are sensitized with wet or dry photoresist, exposed and developed.



RICK ENGLUND is pictured at the equipment which prepares computer tapes for the N/C drilling machines. Precise hole patterns are needed for the components which will be mounted on the PC boards in Assembly.

→ WES WOODRUFF is shown at the solder reflow machine. Wes is one of our N/C drill operators as well.



JOE EATON, in Plating, with Supervisor LES KOCSIS (right). Our metal plating processes include chemical baths for cleaning, anodizing, cadmium plating, and other treatments for the metal parts used in our products.

## QUESTIONS AND ANSWERS

**Q.** If a spouse reaches age 65 before the employee, what happens to the spouse's insurance coverage under our group plan?

**A.** If your spouse reaches age 65, our group medical insurance coverage ceases, because the individual is eligible for Medicare. However, there is a conversion plan available to employees who retire at 65, or to spouses eligible for Medicare if they have been covered under our group medical insurance plan for at least three months. The plan is 'complementary' coverage and works in combination with Medicare benefits. The conversion plan is a comprehensive medical expense plan, with three types of deductibles available: \$100, \$300, and \$500.

Please call our Insurance Office, Ext. 524, about three to six months before you or your spouse are eligible for Medicare. This is important because you have only 30 days to apply for the conversion plan.

**Q.** How soon before retirement should I go to Personnel to find out what my pension will be?

**A.** You should schedule an appointment six months before retirement to discuss the various options available to you. At that time, an estimate of retirement benefits can be obtained for you. Please call Ext. 524 to make an appointment.

## CONGRATULATIONS!

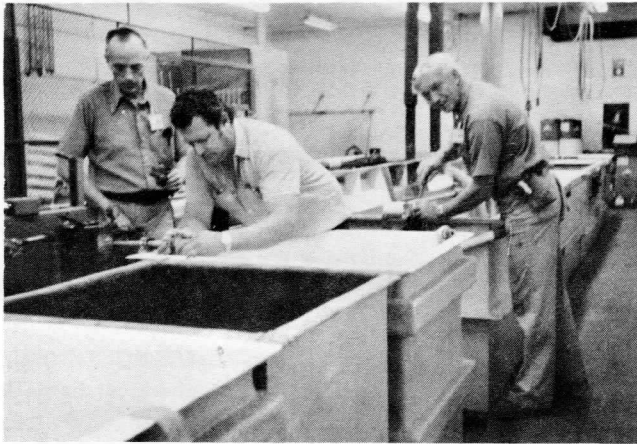
DEBBIE HEATH and GUY UNGARO, both of Data Recorder Test, have selected February 29th as their wedding day.

TOM TONKIN (Data Recorders Field Engineer, Albuquerque) and his wife Sue are the proud parents of Michael Edward, born Dec. 9, at 5 lb., 7 oz.

PIERRE MOREL, of Data Recorder Engineering, has just learned that he is a published author, two years after the fact. The paper, 'Theory of the Circular-Disc Printed-Circuit Antenna' appeared in the Proceedings of the IEE in Oct., 1978. Co-authors were Dr. S. A. Long, Dr. L. C. Shen, of the University of Houston Dept. of Electrical Engineering, and Pierre Morel.



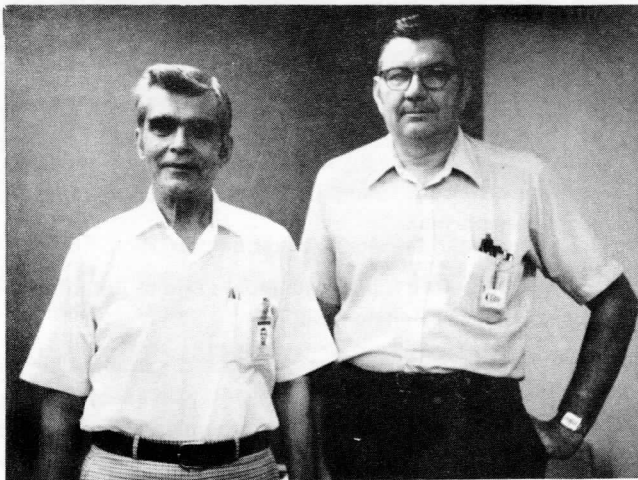
## PLATING ROOM REFURBISHED



Ed Burns, Bob Zieschang, and Horst Scheller, of Plant Engineering, are shown putting the finishing touches on the refurbishing of our Metal Plating facility. New tanks were installed, special skid-proof flooring applied, and the exhaust system was updated.

## HAPPY ANNIVERSARY

Congratulations to Les Kocsis (Printed Circuit Fabrication) and Jack Boehner (Data Recorders Model Room) who are observing major service milestones this month. Les joined us in February, 1975, and Jack started with Sangamo in Springfield, Ill., 25 years ago.



LES KOCSIS AND JACK BOEHNER

## COMING IN MARCH -- SANGAMO WESTON'S UNITED WAY CAMPAIGN

Thanks to you - it works  
- for all of us



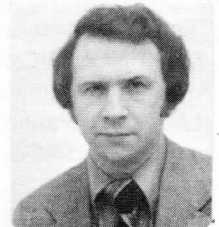
## SALES MEETING HIGHLIGHTS

Bud Thurmond, Regional Manager, Export, for EMR Data Systems, reports that 27 Export Sales Representatives from all over the world met in London last month for an Export Sales Meeting. Representatives journeyed from Japan, Singapore, India, and western European countries, to learn more about our products and their applications. Export sales were up 27% over 1978, Bud says.

Awards for sales went to Takashi Nozaki, of Marubun, Tokyo; Toshio Watarai, also of Marubun; Aspi Kolah and Dada Patil, of J. N. Marshall & Co., Poona, India.

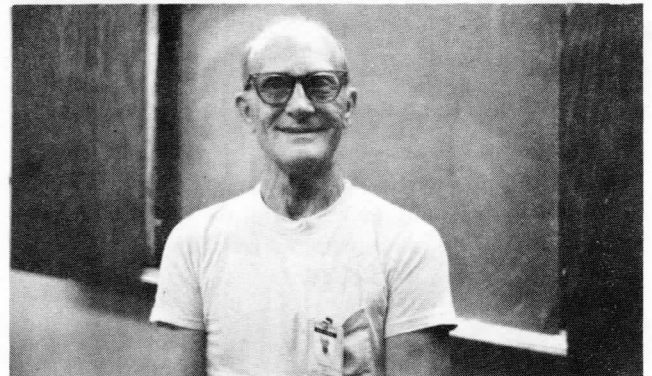
Site of the meeting? The Sherlock Holmes Hotel, Baker Street, London!

Jerry Dow, of our St. Louis Office, received the Top Salesman of the Year award for 1979 at the Data Recorders annual sales meeting in Lake Tahoe on Jan. 20.



Data Recorder Sales and Marketing personnel met with members of management to discuss new products, developments in tape recorder head technology, and tips on doing business with the Government.

## NEW RETIREE



Bob Shepardson, of our Sheet Metal Fabrication Department, became our newest retiree this month when he elected early retirement. Bob and his wife Elinor expect to do some traveling--after he paints the house. Bob will have more time now to enjoy his swimming and gardening. Good luck, Bob.