



SANGAMO WESTON
Schlumberger

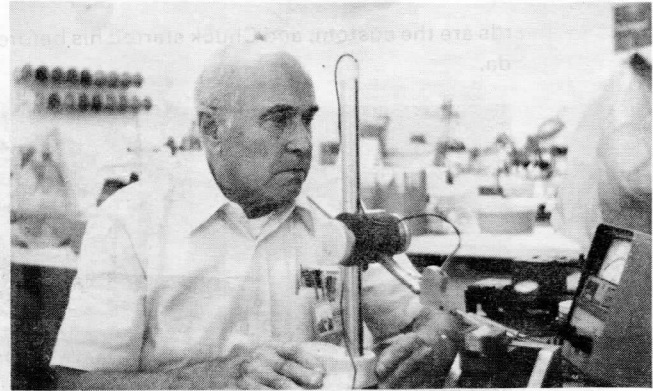
SANGAMO WESTON, SARASOTA
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NEWS ABOUT SANGAMO WESTON, SARASOTA

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HANK FRANZ OBSERVES 40 YEARS OF SERVICE



Hank Franz in the Head Room

On November 29, 1939, a young man named Hank Franz joined Sangamo Electric Company, Springfield, Illinois. Forty years later, here in Sarasota, Hank is celebrating four decades of service with the company.

For many years, Hank has been Supervisor of Sangamo's Head Room--the manufacturing facility which produces the very delicate, magnetically-sensitive component which "plays" magnetic tape in data recorders, much as a needle plays records on a record player.

"When I was hired by Sangamo, they told me they could only guarantee about three months of work," Hank recalls. "Actually, I think they were looking for a basketball player for their team." Hank was a very good basketball player, and his 5 ft. 7 in. height was no drawback. The Sangamo team became City champions three years in a row in Springfield.

Now fishing has replaced basketball as one of Hank's favorite activities. Relocating their home from Illinois to Florida in January, 1978, was no hardship for Pat and Hank Franz. They love Florida, even though their two daughters and two grandchildren are up North.

"Looking back, it has been a short 40 years," Hank said. "I have been involved with several models of tape recorders, starting with the initial Model 470 through Models 4700, 3500, SABRE III, SABRE IV, V, VI, VII and X. Also CME

(Cont'd on Page 4)

INDUSTRIAL SYSTEMS EQUIPMENT TO MONITOR RADIOACTIVE WASTE

Our Industrial Systems Group has been notified of the pending award of a contract by Los Alamos Scientific Labs, New Mexico, for a Radioactive Liquid Waste Management Supervisory Control and Data Acquisition System.

This award, in the amount of \$354,000, is the first sale of the Group's newest system, the RECON III, with Microprocessor Remote and SUPCON-DOS Software at the Computer Master Station. (SUPCON-DOS stands for Supervisory Control - Disk Operating System).

The system will be used to monitor and control the movement of radioactive liquid waste, greatly reducing the chances of overflows and spills--a situation that could endanger lives and property.

"Los Alamos Scientific Labs' selection of this new system should prove to be the first of many," according to Don Turrell, Director of Industrial Systems.

CONVENTION DELEGATE

Thelma Willetts, of Magnetics, was one of 33 Manatee County Delegates to the State Republican Mini-Convention held in Orlando Nov. 16-17. Delegates met the Presidential hopefuls and voted for their first and second choices for Presidential candidate selection. Thelma's husband, Paul, served as an Alternate.



Thelma Willetts

Earlier, Mr. & Mrs. Willetts were hosts to U. S. Representative Philip Crane, of Illinois, at their Oneco home when the candidate visited the area. Thelma and Paul also serve as GOP Precinct Committeewoman and Committeeman.

WINNING IS GREAT

Our Women's Softball Team has started winning. In last week's game the ladies ran up a score of 29 to 3 by the third inning. Members of the Sangamo Weston team include Robin Voss, Johnyé Evans, Evelyn Christian, Lori McClenithan and Becky Church. Coaches are Skip Brawn and Bob Scott. Playoffs begin the first week of December in the Women's Winter City Softball League.

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ASSIGNMENT: ANTARCTICA--9,000 MILES FROM FLORIDA

Chuck Miller, Engineer in Systems Engineering, returned recently from a trip to Antarctica where his assignment was to help install and check out an EMR/Sangamo Weston Weather Data System at McMurdo Station.

The equipment is to be used for receiving high resolution pictures and meteorological information from Tiros-N, a polar-orbiting satellite which crosses both the North and South Poles each orbit. The vital weather information is for Operation Deep Freeze, a scientific research project funded by the National Science Foundation.

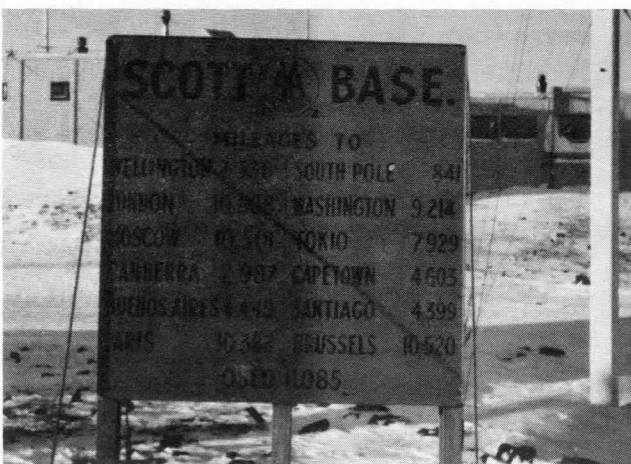
Chuck's trip began in October--Springtime in Antarctica, when temperatures were a mild -10° as compared to the winter average of -50°F .

'First I went to Lancaster, California, to meet Rich Brewster, of Field Service, and to finalize travel arrangements on a military chartered flight to New Zealand,' Chuck reported.

'We left Point Mugu on a DC-8 charter flight heading for Hawaii, only to be forced to return to Point Mugu due to a bomb threat. Once that was cleared up, we started out again on the six-hour flight to Hawaii. After refueling, there was an eight-hour flight to Fiji and then six hours more to Christchurch, New Zealand. We lost a day crossing the International Date Line.

'In New Zealand I was outfitted with cold weather gear and the flight to McMurdo was scheduled,' Chuck continued. 'Meantime, Rich Brewster's scheduled work assignment in Antarctica had to be changed, so he went instead to Australia while I continued to McMurdo in Antarctica.'

When asked about his impressions, Chuck said, 'At this time of the year it's daylight 24 hours a day. During the four summer months, the sun never sets. I was surprised at the amount of contrast to be seen--bare, uncovered ground and rock, volcanos, mountain ranges, penguins, skua (a gull-like bird) and there is marine life under the ice. Plant life is rare, but there is lichen, moss and algae. I had a general feeling of isolation, without phones, for example.'



Signpost in Antarctica -- a long way from home.

Prior to going to Antarctica, Chuck had to have a complete physical and dental check-up before he could be accepted for the trip.

McMurdo Station houses about 1,000 persons during spring and summer. All-told, probably not more than 25,000 people have ever been to Antarctica.

Accommodations were comfortable, Chuck said, although he needed to get used to breathing the cold air. Food was good, with bulk supplies shipped in, and perishables and fresh foods arrived by plane. Ice is melted for the water supply. Stored-up ice and snow covers about 95% of the total land area of Antarctica, and represents 90% of the total world ice.

Yes, beards are the custom, and Chuck started his before he left Florida.



Road leading from the ice runway on Ross ice shelf. In background, Mt. Erebus, an active volcano.



Chuck Miller in one of the recreation rooms at McMurdo.



McMurdo Station, viewed from Observation Hill

100 YEARS OF SERVICE

These five Sangamo Weston employees represent a combined total of 100 years of service. Congratulations and anniversary greetings to our November service anniversary awards recipients:



Donna Watkins, 15 years; Dale Gray, 20 years; Jean Mazza, 10 years; Hank Franz, 40 years; Dawn Hirter, 15 years.

PRESENT ITC PAPERS

Two EMR Data Systems personnel presented technical papers at the annual International Telemetry Conference (ITC) held in San Diego, Calif. Nov. 19-21, 1979.

Roland Olson, Manager of Software Service in our Lancaster Office, presented a paper, "The Problem - Is It Hardware or Software?" This paper presents a logical approach to analyze a very common dilemma in complex computer-based systems: when a malfunction occurs, is it due to hardware or software? Despite Roland's strong software background, he does admit that once in a great while software can be the culprit.

For the second year in a row, Jud Strock, Senior Applications Engineer, presented a paper at ITC. This one is titled "Hardware Compressor Reduces Computer Loading." In it Jud describes the operation of the EMR 714 Data Compressor and gives examples of how this product can benefit the Telemetry user. Basically, a Data Compressor reduces the amount of data that a user needs to process by "throwing away" data points which are not of interest and retaining meaningful data, thus "compressing" the data. Under some conditions over 95% of the raw data can be discarded without losing any data which is of value.

The ITC is the major telemetry conference held each year and serves as a forum for technical exchange and as a showcase for state-of-the-art telemetry equipment. This year we displayed an EMR 708 PCM Data Processor and the new EMR 730 PAM/PDM Synchronizer.

QUESTIONS & ANSWERS

Q. Does our insurance plan cover charges by a Chiropractor? My daughter has been having back trouble since she fell last year.

A. Yes, if the charges cover treatment for an ailment such as a back sprain, and the chiropractor documents his billing with a diagnosis of the problem, the type of treatments, and dates for each treatment. This benefit comes under your Calendar Year Deductible, and is payable at 80%. Vitamin supplements, if supplied, would not be covered since they are not considered part of the treatment itself.

Q. Does our insurance cover Acupuncture?

A. No it does not. At the present time, acupuncture is not accepted by the insurance company as a recognized medical treatment.

Q. If an employee dies, can the spouse continue group medical insurance coverage?

A. Yes, this can be done by request of the spouse to our Insurance Office. Conversion forms will be prepared and mailed to the spouse. When an employee dies, our Insurance Office and Personnel Department get in touch with the surviving spouse to assist in expediting the life insurance payments to the beneficiaries and in handling medical insurance claims, and other benefits such as Growth Plan and Pension plan payouts, when applicable.

Q. Does our medical insurance coverage include treatment for nervous disorders or mental care?

A. If the employee or covered family member is not confined to a hospital or similar institution on an in-patient basis, the benefits come under your Calendar Year Deductible, and are payable at the rate of 50%, up to a maximum of \$1,000 per calendar year. Hospital confinement is covered by our regular hospital and medical benefits plan. A word of caution: Only licensed psychiatrists (MD's) are acceptable under our insurance plan -- not psychologists, unless the psychologist is part of a licensed psychiatric clinic, and the treatment is supervised by a licensed psychiatrist.

CONGRATULATIONS

WEDDINGS

Charlene Niklas, of SWS Projects, became Mrs. **Patrick Parrish**, on November 17. Patrick is in SWS Assembly.

Tim Singleton, of Data Recorder Board Test, and his bride, **Elizabeth Maria**, exchange their vows on November 30.

BIRTHS

Jeanine Brawn, of the Stock Room, and her husband **Hoyt** are the proud parents of a daughter, **Zandria**, born October 28, and weighing in at 8 lb. 1 oz. Zandria is the granddaughter of **Skip Brawn**, of Drafting. Skip was honored at a "Grandfather Shower" given by some of the ladies in Engineering.

BUSINESS INFORMATION SYSTEM -- IT'S NOT ALPHABET SOUP!

AMAPS, BMS, SCS, MCS, and MRP. Alphabet soup? No. They are handy abbreviations for parts of the new business information system gradually being implemented throughout our plant.

This long-range effort includes "modules" of a new management information system aimed at improved operations, greater efficiencies, and better service to our customers.

Manufacturing, Marketing, Accounting and Drafting are all currently working on aspects of the improved business data handling system.

AMAPS stands for Advanced Manufacturing Accounting Production Systems. Bills of Materials (BMS) and Standard Costing System (SCS) segments are being implemented for the SWS product line this month, in pilot project form, according to Doug Bower, Manager of Management Information Services. Daily operations for these "modules" will be effective in early December.

Soon thereafter we should be implementing the Material Control system (MCS) and Materials Requirement Planning (MRP) system.

"We expect remaining product lines will be switched to AMAPS operation by mid-year," Doug Bower explained, "giving Sangamo Weston a vastly improved manufacturing system."

Other manufacturing systems to be developed in the near future involve an on-line receiving system, an on-line issues system for the Stock Room, and AMAPS modules for Purchasing, Process and Routing, Production Floor Control, and Capacity Requirements Planning.

"This means that we will all be seeing more computer terminals in various areas of the plant," Doug added.

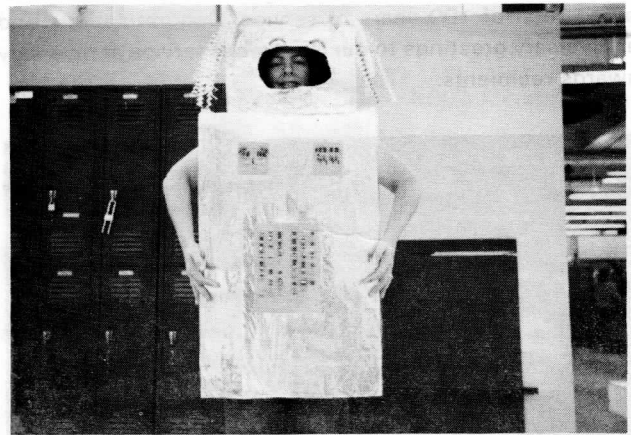
Besides the AMAPS Standard Cost module, a new Accounts Payable System is expected to be operational in Accounting by year-end. Other new systems due early in 1980 include Payroll/Personnel and General Ledger.

In Marketing, a new Marketing Information System is under development to support customer ordering activity from the first forecasting of business opportunities through the order, delivery and invoicing.

Drafting is currently engaged in a major project -- updating Parts Lists -- for better inputs to the AMAPS Bills of Materials system.

"This is a company-wide effort involving many people," Doug said. "And it will probably undergo continuing evaluation and evolution."

ROBOT WINS PRIZE



Brenda McBride's robot design won her a prize for "most creative" costume at a Halloween party held by the Sandslingers Motorcycle Club October 27. Brenda utilized the printed circuit boards she made during her Vocational School electronics course for the female robot's anatomical attributes. Lathe chips from our machine shop formed her robot's curls, and her husband's male robot costume had shorter chips for his hair. Brenda works in our SWS harness assembly area.

HANK FRANZ (Cont'd from Page 1)

(Continuous Monitoring Equipment) and PME (Performance Monitoring Equipment) which consisted of 97 tracks in a two-inch head block."

Tape recorder heads (two heads per tape recorder) are small metal components which form the heart of the tape recorder. Tiny pick-up magnets are imbedded in the head assembly which is built in two halves. Surfaces which will be joined together are first machined very smooth, and then coated in the Head Room with a silicone monoxide coating which varies from 75 to 250 micro-inches (250 millionths of an inch). Incidentally, the price of a purchased head may be as much as several thousand dollars a piece.

Starting up a new Head Room in Sarasota was hectic. There were new employees to be trained in very close tolerance work, plus the turmoil of a building expansion program. Hank summarizes the events in a few words:

"I would like to thank the employees of the Magnetic Tape Head Department. Without your talents and cooperation, my task of the last two years would have been impossible. Thanks a million."

And we thank you, Hank Franz.

ANOTHER FIRST

An initial order for our newest Data Recorder -- the SABRE XII -- has been received for a 28-channel unit. The order, from the U.S. Navy's Keyport Base, Seattle, Washington, was landed by Sales Engineer Tom Kelly of our Seattle area office. The SABRE XII is a new airborne/mobile data recorder currently being introduced to our customers.