

TEK TALK



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The Christmas Story



Merry Christmas

And A Happy New Year!

Now it came to pass in those days, that a decree went forth from Caesar Augustus that a census of the whole world should be taken. This first census took place while Cyrenus was governor of Syria. And all were going, each to his own town, to register.

And Joseph also went from Galilee out of the town of Nazareth into Judea to the town of David, which is called Bethlehem, being of the family and house of David, to register together with Mary his espoused wife who was with child.

And it came to pass while they were there, that the days for her to be delivered were fulfilled. And she brought forth her first-born son, wrapped him in swaddling clothes and laid him in a manger because there was no room for them in the inn.

And there were shepherds in the same district living in the fields and keeping watch over their flock by night. And behold, an angel of the Lord stood by them and the glory of God shone about them and they feared exceedingly.

And the angel said to them,

"Do not be afraid, for behold, I bring you good news of great joy which shall be to all the people, for today, in the town of David, a Savior has been born to you who is Christ the Lord. And this shall be a sign to you, you will find an infant wrapped in swaddling clothes and lying in a manger."

And suddenly there was with the angel a multitude of the heavenly host praising God and saying,

"Glory to God in the highest and on earth peace, good will toward men."

SHOP TALK

By Vern Bartlett

Observing an oscilloscope, the highest point of interest is undoubtedly that intricately assembled mass of electronic components, beautifully etched chassis, tubes and great quantities of wire, all of which produce the green wave forms we see behind the plastic graticule.

But what about the humble frame? It too, has an important function. A scope without frames is like a house without a foundation.

Those who produce them must use accuracy throughout, particularly in cutting legs and backs to length. The dimensions are held to a tolerance of fifteen thousandths of an inch.

Made of three-quarter inch aluminum angle, the frame parts are first sawed square, then beveled to provide a "V" groove for welding. Next small "feet" are cut from one-eighth inch aluminum and welded to the leg ends. These are later drilled and tapped to provide a place to mount the sub-panel.

Welding requires great care since the expansion-contraction factor of aluminum is so high. This necessitates the use of accurately made jigs to hold the parts together so they will be exactly square when finished. All frames are welded by AL FOLEEN, Group Leader.

All other steps — sawing, drilling, tapping, etc. — are done by GEORGE "SCOTTY" AITKEN and ORVILLE RIGGS.

Before welding, the legs and backs must have holes punched and drilled, some counter-sunk, to accommodate mounting screws for such chassis as the vertical amplifier, sweep and delay line. These and other parts must fit perfectly to avoid a bind throwing the frames out of line and making a poor fit for the sub and front panels.

After welding, the frames are taken to the belt sander where the weld is smoothened level with the surface. Etching and lacquering, the next two steps, brings out the beauty of the frame.

Insulating blocks are made of pressed canvas. The etched frame is sawed in two and these blocks are bolted in, leaving a small gap in the back section. This prevents magnetic lines of force surrounding the power transformer from being introduced into the frames and transferred to the cathode ray tube, causing an undesired deflection in it.

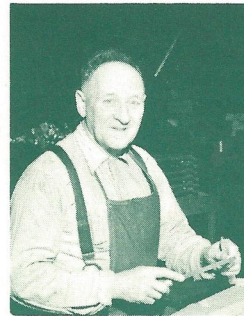
Much material has gone into the production of the frame just over the past two year period. Approximately 24,000 lbs. of aluminum has been used. Were this aluminum used in making window frames, this amount would be sufficient to equip enough small windows for 635 average homes. The angle used would make enough rails to build a two rail fence completely around the Tektronix grounds.

Heading the frame crew is AL FOLEEN, whose private life embraces the three C's — Connie, Carl and Chris. The boys are age four and two, respectively. Al enjoys tennis, dabbling in amateur photography, hiking and mountain climbing. He has been with us since July 1, 1951,

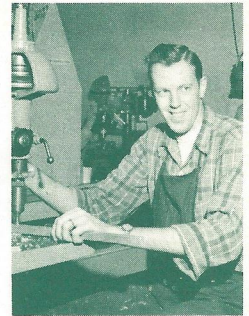
after graduating from Portland University with a Bachelor of Science degree.



Al Foleen



George Aitken



Orville Riggs

GEORGE "SCOTTY" AITKEN was born in Linlithgow, Scotland — also the birthplace of Mary, Queen of Scots. Scotty came to Portland from Canada in 1923, and has been with us since September, 1951. Last December Scotty took a trip to Scotland and in May his bride Elizabeth of five months left the heatherland to join him in a happy reunion. One of Scotty's off-time activities is the remodeling of their home located a mile from the plant.

ORVILLE "SLIM" RIGGS was in the sheet metal trade for four years before coming to Tektronix in October, 1951. Slim claims his hobby is watching TV, but he's more active than modesty permits him to divulge. Many faces (including a pan with a like handle) have witnessed his rolling a mighty pretty bowling average. Slim has a family — Betty and six-month old Jim — of whom he is very proud. If his head appears to be in the clouds, however, it's merely an illusion caused by his 6 foot, 6 inch height. Actually, his legs reach clear to the ground.

SHIPPING DEPARTMENT

By Scotty Pyle

Here lies the responsibility of packaging instruments for safe arrival to the customer. Into each shipping carton goes the correct instrument, the proper accessory items and an instruction manual individually notated to show any "production" or "test" changes. The neat, accurate and complete records maintained in this department

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ment furnishes invaluable information in checking on details of former sales.

PAUL BELLES, who heads our Shipping Department, has been with Tektronix since February 26, 1949. Paul and JACK MURDOCK were among a group of Portland men who enlisted in the Coast Guard on August 12, 1942. Paul served in Alaska and on a troop transport going to Korea and Japan, and after a pleasant excursion was discharged on March 30, 1946.

At home he loves to romp with his two sons David, age three, and John, nine months, and sing duets with their mother Wahnita. In 1948 Paul and Wahnita planned and built their own home, which he has since sold. Right now he is working on plans to convert a good part of the large basement in his new home into a party room.



Paul Belles



Clinton Parmley

CLINTON PARMLEY takes the philosophical viewpoint of his 14 months tour in England with the Air Force. While at times their customs are annoying, he finds that a tolerance toward their way of living makes for a pleasant stay. A must for travelers who like coffee black is that they specify no cream and no sugar, and then accept the waiter's look of incredibility with resignation and also accept the "coffee" with resignation. Tea must be made in a teapot reused for many years before it achieves the "flavor". Because he was there during one of the mildest winters, Clinton found the English climate not too different from the climate at Tillamook. After returning from England, Clinton was released from service in October, 1952.

Clinton joined Tektronix the first of June this year to help in getting out a record number of instruments during the month of October. Clinton and his wife Betty, who is from Hood River, enjoys the Oregon climate. As a sportsman Clinton likes to go fishing on weekends.

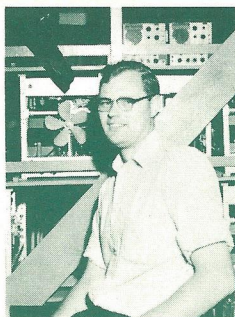
COLMAR BJERKE was born in North Dakota and moved to Oregon with his folks in 1940. During his tour in the Air Corp, Cal was in the Finance Department, and knows the reason for our staggering national debt. In fact, he helped wear out the two tills that needed replacing by Bill Ewers.

After getting out of the Air Corp, Cal promoted the use of Tetra-Ethel and had to make so many trips to the bank with funds that the bank thought he was an employee. One day they asked why

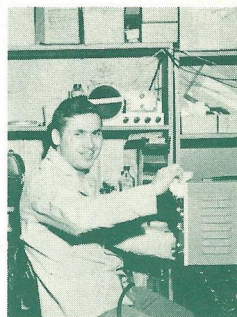
he didn't keep better hours. After explaining the situation, he went to work for them.

Cal joined Tektronix and the Shipping Department in October 1952, and thoroughly enjoys watching the cartons of instruments going out the back door to customers all over the world.

Cal's spare time is spent in doing the countless jobs that need to be done around the house. Still going is a house painting project that has been postponed because of rain. Cal enjoys spending his sparse "spare time" reading deep scientific treatises such as "Argosy" and "True".



Cal Bjerke



Jim Peabody

As an exponent of the golf game, JAMES PEABODY rates among the highest at Tektronix. His bi-weekly golf game keeps his score down in the forties, any lower and he'd need flood lamps to see the last nine.

Jim moved from Manhattan, Kansas with his folks in 1943. He returned to Kansas to attend high school. After finishing he came back to Oregon and worked at Coos Bay for a year before coming to Portland and Tektronix. In 1951 Jim requested a leave of absence to attend Wesleyan Methodist Church College. He returned to Tektronix last year to help in the Shipping Department. Parcel Post shipments occupy most of Jim's time during the day.

Jim and his wife Eileen have a young son, Michael, age 3, who occupies a great deal of their spare time. Jim and Mike play shoe salesman. In case you would like to play the game, select a young son who has a yard stick. You take off your shoe while the salesman measures your foot. What size do you take? Thirty pounds! Thirty pounds corresponds to Mike's weight. When not occupied buying thirty pound shoes, Jim plays basketball and paints.

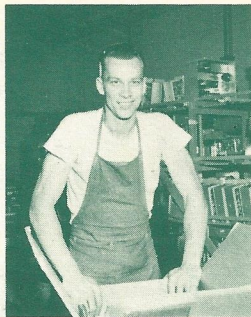
BILL EWERS was born in Cedar Rapids, Nebraska, and lived about a block away from Chuck Rutten. Bill attended a family wedding with Chuck, and instead of the bride being the center of attraction for Bill, a bridesmaid named Betty held his attention. Betty lived in Hillsboro, Ore. and was in Nebraska on a vacation to attend the wedding. After Betty left, Bill and Chuck decided they needed a vacation in Oregon — at least Bill thought so! Two weeks after returning from their vacation, these wandering boys

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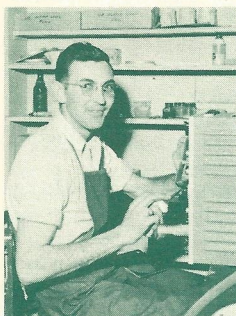
decided Oregon was the place to live. To end this part of the story quickly — Bill married Betty on November 19th.

Bill strayed away from Oregon in 1951, at the request of the Army Engineering Corp. As a sheetmetal specialist, Bill was qualified to produce intricate and complex arrangements of metallic combinations. Precisely, he built two money tills.

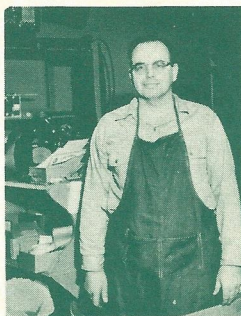
Bill would like, eventually, to join the Test and Calibration Departments, and is interested in learning about electronics.



Bill Ewers



Chuck Rutten



Floyd Stewart

Having heard so much about Tektronix during his tour in the service, CHUCK RUTTEN decided this would be a good place to work. A tour with the Quartermaster Corp in the States qualified him to serve with an Ordnance Company in the 8th Army in Korea. You don't see the connection? Only the Army does. Chuck started with us in April and is presently "cabinetizing" scopes.

When asked about his youth — that is, his extreme youth — Chuck made a veiled reference to buckshot and watermelon, but on closer questioning the conversation diverted to cantaloupe. Oh, yes, there was mention of a doctor probing for little round pellets.

Chuck and BILL EWERS, who are close friends, grew up and attended high school in Cedar Rapids, Nebraska together. Photography and a girl take up the balance of Chuck's time.

FLOYD STEWART, another fisherman, enjoys trips to the Alsea River, where he can spend a weekend of leisurely fishing with a long time friend. The outing includes the entire family, who like the taste of sizzling trout freshly caught by Dad.

Floyd likes to spend an evening reading. He is interested in Theology and likes to trace the effect of religion on society — observing that any lasting society has had a religion that contains a strong moral core.

Owning a dairy herd was the ambition of Floyd when he started a herd and milk route at the age of 14. He continued until he was twenty when the milk control law, with the complexities to the small concern, forced him to sell his herd. Floyd recalls just prior to closing out, he delivered milk in a canvas newspaper bag. One time a milk truck driver asked him what paper he had. Floyd yelled back "The Milkman's Gazette". They both laughed and continued on their way.

In March, 1952, Floyd joined the Shipping Department and lends a hand to the many tasks of preparing the instruments and cartons for shipment.

COSTAL PLANT REVIEW

BOB DAVIS took a two-week trip in November, visiting plants on the West Coast to compare notes on wage structures, job classifications, production methods, etc. On his return Bob said nowhere did he see anyone do a better job as far as quality of work is concerned, or as efficiently, as our own people.

The tour took in Hewlett-Packard Co. in Palo Alto, the largest instrument manufacturing company on the West Coast; Litton Industries in San Carlos, manufacturers of Magnatrons, a high frequency type vacuum tube, where by the way, he found a philosophy similar to ours.

Our Los Angeles representative, Neely Enterprises arranged visits and contacts for Bob in that area. At Hughes Aircraft he took note of sequence wiring. Packard Bell was a revelation in mass production on a high speed operation. Four hundred television sets a day are assembled on a moving track, with sub-assemblers sitting opposite assembly line people, keeping their bins filled with parts. It takes fifteen minutes, for example, to wire a regular AC-DC table model radio. Every one-hundredth of a second is accounted for.

To the other extreme, Bob found custom handling of amplifiers for the movie industry, speakers for radios and television sets at Altec Lansing Corp. in Beverly Hills. Here there are no production runs.

He watched transformers built at Triad Transformer Company for aircraft companies and the television industry.

One other purpose of Bob's trip was to check into a new wire striping machine at the Sequoia Wire Works. He saw how the machine worked, liked what he saw and placed an order — not for the machine, but for the head. Jim Morrow was given the job of building the machine in line with our own specifications.

The tour afforded a better insight into the planning and thinking of other manufacturers and allowed an objective view of our own methods and the results. As Bob says, "Our people are really good".