



Our Business Is Producing High Quality Instruments

A recently published article in the American Management Association, monthly entitled "What should Top Management expect from Quality Control", written by Mr. Wayne M. Biklen, states the following thoughts in part:

"Competition is making quality an increasingly important factor in business. In many instances, a high-mortality results among businesses because the quality factor has been eliminated or ignored. Anyone can turn out junk and many companies are doing just that in the mistaken belief that the public is generally unconcerned with quality. However, within a relatively brief period of time, these 'short term' producers find that survival is closely dependent upon a reputation built on quality. We are fortunate that modern control methods have been growing with machine complexity. The consumer is demanding higher quality through increasing competition."

TEKTRONIX' BUSINESS IS PRODUCING HIGH QUALITY INSTRUMENTS. We are in the market for future business and the kind of job we do on our products at the present time is one of the factors which cannot be overlooked. A high production rate is desirable, but more

important is the excellence of performance and workmanship. Appropriately enough, our plant motto might be: "It's not how many units, but how many good units we deliver to the customer each month." Each employee has a part in this goal, and each is important in his relationship to the finished product. High quality has to be built into an instrument by every production worker; it cannot be inspected into a product by an inspector or test-calibrated in by a Test Engineer. The most efficient inspection of work in process can only be done by the person performing the work.

To help you maintain this standard of high quality a new department was formed called Production Quality Control, in September, 1954, for the express purpose of evaluating problems concerning manufacturing results. To accomplish this, the department has Component Inspection, Instrument Inspection and Unit Inspection. Kenny King is in charge of this group and works with Vernon Walker, Bill Sedig, Hallie Todd, recently from Kit Prep, Ed Kiepeke, Betty Glasnapp, Anna Jacobs and Dave Easton, who is now a part-time employee while attending Portland University.

Material Control Maintains Parts Supply

The Material Control Department is a production staff department reporting to Bob Davis. It includes the Requirements, Purchasing, Stock and Customer Service Parts groups. The individual departments were recently combined to squeeze out overlap in many of their functions and to integrate their closely related efforts. It is the responsibility of this department to see that all approved material, parts, tools and supplies are available to the departments using them as their schedules require them. The establishing of requirement lists, the purchasing of materials, the scheduling of plant made parts, and the pick-up, storage and disbursement of these parts is the primary responsibility of Material Control. The Customer Service Parts group is a supply operation that services parts requirements of customers and Field Engineers, rather than in-plant operations. Most of us are familiar with the general operation of the other three groups and space does not allow detailed descriptions at this time.

The Material Control Dept. operates somewhat as a committee. That is; the head of Requirements, Hawkin Au; Purchasing, Scott Foster; Stock, Bill Lee; Material Control, Bob Fitzgerald and representatives of Customer Service sit down together at least once a week and discuss mutual problems on scheduling, routing, data handling, storage, material flow, etc., and come up with a course

of action that will satisfy production needs, and is operable by the group. Material Control responsibility could be classified as inventory control and inventory accounting. Inventory control involves the estimation of units of materials needed and the measurement of performance against these estimates. The results are studied and attempts are made to improve the estimates of the performance, for the following period. Closely related to the control, yet not identical, is inventory accounting — here the stress is on the dollars rather than production units and requires an additional amount of system and procedure to see that invoices are paid and recorded properly and that inventory is monitored effectively. Many of the records used for control purposes are also used for accounting and each of the four groups is responsible for some aspect of the material or related record. As you may know, the group is now involved in studies of IBM data processing methods. It is presently using the IBM service bureau for calculation of requirements, and have on order several pieces of equipment that will enable us to do a more complete job, here at our own plant. It is hoped that this equipment will afford us a means of keeping up with and ahead of our Marketing and Production Divisions in order that you will have a better availability of materials and supplies when you need them.

The Case Of The Thoughtful(?) Thieves

Perry Mason would enjoy this caper, no doubt. 'Who took the white side-wall tire, complete with wheel, off Marie Weisenbach's pink and black 1956 Catalina 4-dr Pontiac?'

The best is none too good for them it seems. The only nice thing about it, they left the hub-cap and nuts so Marie could mount her spare and get home. She was so stunned when she saw her car with that list to port she just stood there looking at it. She still doesn't know whom to thank for

putting on her spare, and she wants it understood 'whom' refers to dozens who gathered 'round to lend helping hands.

Here we should add: P. S. They took Martha Anderson's white side-wall cleaner, too.

We regret this happening very much, and we can all discourage such going-ons by locking everything securely and keeping a watchful eye out for any suspicious happenings.

Retirement Trust Gil Schuricht Awarded Honor

Most of you know by this time that the Retirement Trust has invested a considerable sum of money in a tract of land near Beaverton. This land, some 300 acres, lies due west of the Beaverton airport, and is bisected by the S.P.&S. railroad tracks. This land was purchased because we felt it was a good investment. It is the current plan that this land can be developed into an industrial area. It was not purchased primarily to provide a future building site for Tektronix, Inc. However, if the company should be interested in acquiring a portion of it, the Retirement Trust would be very happy to talk business with them.

The area has many features which make it a promising industrial site, such as railroad trackage, and its location between two major highways. The future plans of the highway commission indicate that a North-South Freeway would pass along its western edge also. It is within a half mile of a large PGE substation and the same distance from a natural gas trunk line. A private airport bounds it on the East.

This investment seems to the members of the Administrative Committee to be a particularly desirable type. Not only does it offer the opportunity of a substantial return, financially, but the influx of desirable industries into the area in which most of us make our homes will substantially increase our property values, add to the tax evaluations which support our schools, roads, and parks, and in general, will stabilize the economy of this metropolitan fringe area.

Christmas Spirit Early This Year

Maybe Christmas, 1955, is just a pleasant memory now, but the 1956 occasion looks like a wonderful day.

Corrine Johnson's happy thought of calling the Christmas Bureau last year for names of individuals and families who didn't anticipate a very merry day, spread quickly until seven families became guests, so to speak, of seven departments of Tek. Han Bok Mi's adoption by Cable group also came as part of the warm and friendly spirit.

In looking back on the happy 1955 Christmas Season, crt and finals checked with Tek Talk asking procedure, references, etc., for 1956 participation. Yvonne Moran contacted United Fund's Eleanor Herven, who is Chairman of the Christmas Bureau this year. This is the gist of the conversation: The Community Council meets in October and they will have the lists of families who need help, out by the middle of November and possibly before. These names are gathered from various organizations such as the Visiting Nurses, public welfare agencies, private agencies, schools and others who know the individual circumstances. Churches and clubs and civic groups often register the names of families, also.

To avoid duplications, and to make sure that all needy families and individuals are remembered, the Christmas Bureau acts as a clearing house. There were over a thousand names listed in 1955, with very few duplications.

For people who want to give enduring pleasure to groups of children or adults, the Christmas Bureau has the information of hospitals, children's homes and other institutions where larger items such as sturdy



Presentation of Scroll was made by Dr. Alfred Schilt and Rex Eastman of the Multnomah N.E.P.H. Committee. Gil's group gathered around to share in the honors accorded him. As you can see, Howard, Jack, Bill Webber, Bob Davis, Johnny Taylor, Don Kepler, Harold Edmondson were there to take part, too. We're all very proud of Gil!

Tektronix is justly proud of the choice of Gilbert Schuricht as 'Citizen Of The Week,' by the Multnomah County National Employee of the Physical Handicapped.

Gil was born with cataracts on both eyes, and during grammar and high school his vision showed a tendency to weaken. When 23 years old, the cataracts were removed, leaving Gil with limited vision, called tunnel-vision, with a radius of 4 inches. He now has 20-70 and 20-80 vision, this means that he can see at 20 feet what one can normally see at 80, and then in only a limited area.

'Gil,' to everyone who knows him, works in the Mechanical Assembly department, assembling 25 different types of rectifiers, each rectifier being different, according to its particular use in one or more of the 12 different instruments requiring rectifiers. Gil also does his own scheduling according to supply and demand. His present job requires dexterity, accuracy, and good judgment in that the rectifiers must be built correctly

for dissipation of heat, space limitation, and the correct positioning of lugs, spacers and associated parts. He was employed by Tektronix in June, 1955, and has since well proved his ability to do the job. His work attitude is an excellent indication of his character and is noticeable in the lack of self-pity due to his handicap. He has had a nearly perfect attendance and his compatibility can be judged by the warm friendship everyone in his department feels for him

Off the job, Gil's many projects and hobbies include music (violin, guitar, piano and trombone), home repairs and remodeling, Scouting activities, and helping with the rehabilitation of other handicapped people. He is a past member of the Board of Directors for the Multnomah Association Council of the Blind.

Gil, his wife Gladys, and their two boys, David and Danny, live in Beaverton. Gil has just finished building a garage and putting in a new driveway. There is a new home planned sometime in the future.

play equipment would be most welcome. There are also suggested schedules for caroling groups, so that hospitals and homes of shut-ins will not be missed.

Sharing in the fun of gift buying, wrapping and tying; planning hearty Christmas dinners; and all done with the blessing of prayer for future prosperity for them, will add to our Christmas Joy and add much more meaning to our Thanksgiving Day, also.

Long Live Tek's Christmas Spirit!

Polio Shots Covered

SAY— There has been a lot of questions asked about polio shots. Bankers Life pays \$3.00 per office call to employees. Dependents do not have this coverage, we're sorry, but employees do, and that helps some.

Chest X-Ray Mobile Unit Kept Busy

Over 900 were examined during the visit of the Mobile Chest X-Ray Unit on its scheduled stay at Tektronix on October 9th. It was a nice day, sunny and pleasant, so everyone enjoyed the few minutes of fresh air and visiting during their wait. We were very pleased with the voluntary turn-out.

We can't resist putting in this little poem:

TB or not TB

TB or not TB.
That is the congestion.
Consumption be done about it?
Of cough! Of cough!

Tek Talk

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A Thanksgiving Prayer

God, ev'ry year about this time,
according to routine,

I've bowed my head in the accepted way
and offered thanks, like some well synchronized machine
that prayed because it was the time to pray.
But, God, this year is different, this year I seem to feel
America's Thanksgiving is my own,
that in my nation's gratitude I have a part that's real,
a part that until now I've never known.
And, God, this year a deep humility has filled my heart,
a newborn pride rings true thruout my soul
because I do belong, because I have and am a part,
a tiny part of one tremendous whole.
I think I know the feeling of those first Americans
who said, "We must give thanks for this, our land."
I cherish now the rights that are each woman's, ev'ry man's,
the rights I've just begun to understand.
This year my heart has learned what all Thanksgiving Days
are for,
true thankfulness at last I realize,
but, God, I'm sorry that it took the tragedy of war
in other lands to open up my eyes.
Again I bow my head but this time deep within me stirs
a mighty prayer, part of one vast design,
"God, help me make America as proud that I am hers —
as I am proud, and grateful she is mine!"

— Kathryn Kay
"If The Shoe Fits"

Thanksgiving Day — Let us all . . .

"PRAY FOR PEACE"

PERSPECTIVE . . .

This article was taken in its entirety from a weekly letter called "Perspective" that is circulated to business men and any who request it. It is sent out from Los Angeles by a pastor.

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Dear Friend,

TAKE GOD OUT OF GOOD — WHAT DO YOU HAVE LEFT? You have "0" left — exactly nothing. There's a lesson in that!

There's much more to life than just being good. Plenty of people are good — like a statue. They never make a mistake — never make anything else either. They never do anything wrong — don't do anything else! It's not enough to be good. One must be good for something.

Examine the goodness of the average man today. What are his reasons for being good? He's afraid he'll get caught if he does something bad — or it pays him to be good — he's too timid to be bad — or afraid of losing his reputation. He's good — but he's utterly selfish in his goodness.

Way to test real goodness in a man

is too see what kind of a fellow he would be if there were never any danger of getting caught. What would you be like if you knew that you could get away with most anything? What would you do — if you were sure of never being found out? That's the true test of morality.

There's a lot more to being moral than just behaving right. Being moral has to do with a man's spirit — with a man's relation to God. In fact — a man's relation to God is infinitely more important than his relationship to his fellow man.

Back of real morality is spirituality. Morality is between man and man — spirituality is between God and man. A moral man is not necessarily spiritual — but a spiritual man will be moral. The spiritual man is the key. Spirituality is the root of which morality is the fruit.

Trouble with much of our morality is that it has been cut from its roots. Man is concerned only with his relations with other men — and that concern is primarily selfish.

A man acts right in order to be looked up to — in order to guard his reputation — in order to be credited

JA'ers Forging To Success

Several years ago a group called Junior Achievement was formed to teach a practical business education to young people interested in discovering the meaning of hard work and still get a glimpse of the soaring spirit of free enterprise. In JA a group of teenagers forms a working company — their successes or failures can only reflect upon themselves.

These young men and women are developing a sound knowledge of business — on their first jobs through JA activities. Production ordinarily gets under way two to four weeks after the corporation is created. More than 2000 of these miniature corporations now operate in 61 industrial areas. Their life span is only about 30 weeks, yet this brief period gives bright young people opportunity to develop ingenuity in grappling with the same problems of production, sales, and management that are encountered by every business.

Most JA companies move into full-swing production in time for Christmas sales. Doing most of their selling in person, the JA's see that sales don't just happen, but have to be made. They appreciate the value of incentive and realize that the man who contributes the most deserves the most pay.

Tektronix is a sponsoring company to Junior Achievement, Inc., the nationwide organization. Tek is also a counselling firm in that they have three advisors who set up a JA Co., and act as counsellors through the company year. The advisors this year are Al Foleen, business advisor; Vern Walker, sales advisor; and Lloyd Olson, production advisor.

This year the Tektronix sponsored

JA company is off to a roaring start. The time and effort that the advisors put in during the weeks before the company was formed has payed off admirably. Some of the accomplishments of the first two meetings are complete registration, arrangement for banking facilities, transaction of lease for company working space, formation of company charter and preliminary by-laws, voted capitalization plan, election of officers, completion of stock sales, selection of company name (The achievers chose the name SILK TEKS from their many suggestions), selection of company product, and production and sales of their starter product.

The achievers compose the company's board of directors and all company policy is determined by vote.

This year the company is in the silk-screening business. Major product until Christmas will be an assortment of Christmas cards, hand screened by the achievers. Price will be \$1.00 per dozen. The cards with envelopes will be packaged in an attractive folder. Sometime in November the achievers will visit the plant to conduct sales.

To get an idea of how aggressive the SILK TEKS are, they have already made sales of their "quickie" product which is a 9" x 11" sign that reads, "BE SURE TO VOTE FOR THE CANDIDATE OF YOUR CHOICE" selling to businesses for fifty cents. This timely sign was produced by the achievers to fill in the gap that all companies have before they can get into production of their selected product. The SILK TEKS plan to be in full scale production and sales of their starter product (Christ-

France Has A Word For It

Gil Angenieux has been giving the traffic police of Portland a bad time. Riding his bike at night without lights on it and 'G-crossing'. The fellow that stopped him about the 'no lights' problem had such a lot of trouble spelling Gil's last name he just gave up and left after a mild admonition.

When Gil was caught G-crossing he tried to explain to the officer about the custom in France, namely, if the traffic warranted and the need arose — cross the street wherever you are. He explained his lack of knowledge about our red and green light system, and, truthfully, the officer tried very hard to understand Gil's views. The only trouble was Gil's very French accent was too much for him and he gave up too, but not entirely — he presented Gil with a ticket to a movie — a traffic movie. Perhaps he felt visual education is the most effective, after all.

You can picture the poor officer on a visit to France. All the hustle-bustle of the Paris streets and byways, the erratic taxi driving and complete disregard the French seemingly have for life and limb. The funny part about it is, there doesn't seem to be too many accidents and the French are a lively bunch and still G-crossing anywhere.

Have you figured out G-crossing yet? Jay-walking. I like Gil's description of it best, don't you? Note: and just after that article on traffic safety, too!

mas cards) before the other local JA companies produce their starter product. Hats off to these seventeen teen-agers who are going at it "TEKTRONIX" style (Get there firstest with the bestest mostest!).

Looking For Excitement?? - -

Join Our Field Engineering Forces!



Following is an excerpt from Dick Ellstrom's August Call Report containing highlights of an interesting trip to a copper mine in Mexico:

"Made arrangements with Juan Squaro, Liaison Officer, to have the 535 transported across the border down into Mexico about 45 miles to the site of the Cananea Mines. It took us over two hours to travel the 45 miles between Naco, Mexico and Cananea where I was to demonstrate the 535 in conjunction with the Million Ton blast. At one point in our

with his goodness. He's good so he can get ahead. Even his goodness is dictated by the tyrant of self.

When a man's morality never reaches beyond that low level — God is not pleased with it. He is displeased with it! Goodness for the sake of self advancement is abominable to God. It is worse than badness — because it is masquerade — hypocrisy — deceit.

The goodness that really counts before God and man — that has depth and finish to it — is that which reflects the glory of God. The man whose moral living flows out of devotion to Christ is the true Christian. "The Lord seeth not as man seeth; for man looketh on the outward appearance, but the Lord looketh on the heart." — 1 Samuel 16:7

Cordially,

Richard C. Halverson

Editors Note: Emphasis was provided.

journey, the road had been washed away to the extent that I had to fill in some of the deeper ruts with my bare hands. Unfortunately, I didn't have the foresight to throw a shovel in the trunk. We were about 15 miles this side of Cananea when in the distance we saw a truck alongside the pathway, which they call a road, with several men all sleeping in the shade of the truck. We had to disturb them to get by and from their gestures they were waiting for someone to come along and help them patch their flat tire. Their English was no better than our Spanish so the best we could do was to give one of them a lift into Cananea. All our attempts in corresponding with each other was in vain — a very frustrating 15 miles. After arriving in Cananea, I called on Mr. A. W. Ruff, the engineer who originally inquired about Tektronix instruments.

The next day we went up to the mine and I was shown the areas that were to be affected by the forthcoming blast. This was the first time I had ever been underground and it was a very interesting experience watching the ore, or as they call it, "muck", being extracted and processed.

It was late afternoon before our 535 got into Cananea. It had been held up at the border by Mexican Custom Officials for lack of sufficient itemization of the accessories. Consequently, Mr. Squaro had to pass the probes and the rolls of polaroid film as: One can of peaches and six cans of pears! It was fortunate we had someone who knew the ropes to help us get this equipment into Mexico.

The blast, which was scheduled for 11:00 AM Sunday, was the largest blast of its type ever attempted. Consequently, there was much tension in the entire camp, and along with this tension there were many festivities planned to counteract it — very enjoyable festivities, indeed. We spent Saturday setting up the oscilloscope near the summit of the 7,000 foot hill in an area which wasn't very far from the area to be blasted but which was in a relatively safe place. One of the purposes for which the scope will be used is to evaluate the various methods of connecting the caps. We measured the detonation time of many different type caps and combinations of cap hookups.

Sunday — this was the morning of the big blast. We got up at 5 o'clock in the morning and got situated by about 9:30 AM and had all the final preparations completed. The next hour and a half was spent in rechecking all our connections and just plain waiting. One of the biggest thrills that I've ever experienced came at 11 AM, when I gave the final signal to close the switch to detonate over 55 tons of explosives. After waiting half an hour, we went over close enough to the blast area to see that the explosion was a success, making available 200,000 more tons of ore than had originally been hoped for.

The air in the cage shafts, or as we know them, elevator shafts, and the underground, was contaminated, making it necessary for us to make our way by foot down the mountain. Our trip down from the 6,000 ft. level to the 3,500 ft. level took over an hour. At any point along the way we could have fallen and reached the bottom much faster."

More Than One Way To Skin A Cat

Don Ellis and Hawkin Au solved their bachelor status problems by getting a three bedroom apartment and moving Mrs. Hensen in to act as their house-mother. The arrangement is to be envied, we're sure. Meals, to their own liking, on time; and household chores completed under the orderly care of Mrs. Hensen. The boys redecored the place to

suit themselves. Color schemes and furnishings of their choice (except for the womanly touches of Mrs. H., of course). Methinks they are becoming a little spoiled with all the attention she gives them, too. Mrs. Hensen has married children of her own living in Portland, but this is more fun than working out and living by herself,

Ceramic Process Featured

A 'thank you' letter to Ted Goodfellow from George Edens resulted in look-see into the article, by Ted, printed in 'Ceramic Industry' magazine. His article gives a complete picture of the manufacturing process of ceramic strips used in Tektronix instruments. George says, in his letter, "It answers a lot of questions which are frequently asked of our people in the field."

Perhaps a reprint of Ted's article will help all of us understand about the little white ceramic strips we see in our 'scopes'. We recognize the neatness, ease of wiring and the accessibility which distinguishes our workmanship and design, but a closer look at the processes of manufacture will help us appreciate the large amount of development work that has gone into the birth and growth of our ceramic department.

The ceramic terminal strips described are for use in cathode-ray oscilloscopes. They are porcelain strips of various sizes with notched edges to which the leads of electronic components can be readily soldered. These porcelain strips take the place of the old style bakelite boards with rows of metal posts along the edges.

This new type of construction, in addition to being more efficient electrically, contributes to more compact construction of electronic instruments and is of neater appearance. An added advantage is that the small amount of mass to be heated in each notch when soldering minimizes the amount of heat getting to the electronic components from the soldering iron.

Feldspathic Porcelain Body

The present body is a feldspathic porcelain body with a zirconium opacified raw glaze, single fired, maturing in the cone 10 to 11 range. The body is ground in a rubber-lined ball mill of 40-gallon capacity using high density alumina balls. Parts are formed by slip casting in multiple cavity molds, with the operation being rather highly mechanized.

After forming and drying the strips are trued up by a quick touch on a

SCOOPS FROM SCIMAREC

A cloud of dust descended on Ceramics the other day, but Jack Gaeth soon found the trouble and after he had us all breathing again, he cancelled the order for a replacement crew. Someone opened a door upstairs and the dust blew into the downstairs room thru a pipe—seems anything can happen, doesn't it?

We have several famous personages in our department. Ted Goodfellow and family, as accomplished musicians, graced the cover of the Oregonian Magazine section in a full

slow moving belt sander. Two stud holes are then drilled in the flat bottoms simultaneously on a double drilling machine designed and manufactured at Tektronix.

The strips are glazed in a multiple-dipping operation and allowed to dry at room temperature. The bottoms are sponged to remove any surplus glaze which may have spilled over the edges during glazing.

Sponging consists of a light even touch upon a slowly revolving piece of Wilton carpet mounted vertically on a metal disc and partially submerged in a pan of water. An adjustable roller squeezes the water out of the carpet leaving just the right amount of moisture and at the same time washing the carpet constantly. This machine is powered by a sewing machine motor and variac.

When the pieces are thoroughly dry notches are sawed on a small gang designed and built at Tektronix. The dry glaze is cut through to a depth of about 5-sixteenths inch into the greenware.

This sawing operation is one of the most efficient processes. For each of the cutting wheels two small rubber-bonded fine-grit silicon-carbide dental wheels are cemented together, making a single wheel fifty thousands of an inch thick and two inches in diameter. These wheels are mounted on a shaft with the proper spacers between each wheel. The motive power is a sewing machine motor which is activated through a micro-switch attached to the carriage upon which the ceramic strip is cut.

The operation is very fast. Several thousand strips of any size can be cut per day per girl. The whole machine including motor is only about 4" x 6" x 10" long.

It is much more expedient to saw through the glaze and single fire than to form the notches before glazing, and then have to mask the notches or clean them out again after glazing. As sawing is the last operation before firing, the pieces are placed directly upon the silicon-carbide batts ready for firing.

(Part II to appear next issue.)

color family portrait. That's our Ted! Janet Hoodenpyl finished 4th in the Oregon Woman's Bowling. Even tho she lost the top spot, she had the high game of 227. There were 90 competitors. Pretty good bowling, says I.

Any of you gals want to play basketball? No age limit (this I have to see). Anyway, Monttie Wallis will furnish the basket if you just sign up.

Rose Archer went deer hunting and came back with poison ivy. Anyone got a back scratcher?

WANTED

TOP EXECUTIVE — Unusual opportunity for an imaginative (but not unconventional) planner who thinks quickly (but isn't impatient), acts aggressively (but ruffles no fur), and can get things done (through channels without stepping on toes). Should have an A.B. in Business Administration (preferably from an Eastern University), but the equivalent in experience will be considered (for blood relatives of management). Applicant should have varied and broad background (yet be a specialist) and have a work record demonstrating job stability (i.e.: without being a "job-hopper" he must nevertheless have acquired "a varied and broad background"). The man chosen will be a member of an executive committee (team) jointly responsible (he'd better "fit in") for company policy.

CRT Sport News

There's a variety of sport interests in crt—Those who bowl for Tek are Emma Lanctot, Ann Sullivan, Dee Blohm, Doris Urich, and Helen Thome. Others bowling for other leagues are Clara Knox, Minnie Coughlin, Marge Earlywine, Rose Duane, Marion Peterson, and Eve Kilpack.

Crt is proud to have Vilma Leeto and Laine Pettai on the Estonian Volleyball team. Along with Harda Kauk, Helmuth Kalmann, and Olev Adamson from Tek they flew to San Francisco and played volleyball over Labor Day.

Marge Earlywine and Minnie Coughlin are our top women bowlers. Marge and Minnie both rolled games of over 200 and are the proud wearers of "200" pins from Beaverton Bowl. We understand our Thursday afternoon league is doing very well, but they aren't talking about their position until they are more sure of their standing.

New Members Of The CRTeam

Jeanne Rouse: Started to work on September 26 in gun assembly. She is married and has four children. The youngest is six months. Her hobbies include music, piano and voice. Majored in music in college. She is a native Oregonian.

Alice Fleskes: Started to work September 24. She is putting her husband, a senior at Pacific U., through pre-med school. She likes cooking and dancing.

Maxine Hoggatt: Started work on September 26. Her husband Kenneth works here in test. She is originally from Iowa and was graduated from Nebraska State Teachers College. Her hobbies include cooking, photography, and Hi-Fi.

Ruth Myllenbeck: Started on October 1st. Lists sewing and cooking as hobbies (much to the delight of other culinary artists in crt). She's a Michigan girl and, although she received her M.S. degree in bacteriology from U. of Washington, she still roots for the U. of Michigan football team.

The Archer's Angle

A Sylvan Interlude

Up on your toes, ye Bow-Hunters Bold,
Muster anon for your turn.
The archery season is on again
In the deer-studded Tillamook Burn.
So away to the hill, the hilly hill hills,
Strike out for the Western lands;
Off in a cloud of exhaust fumes we go
With our bows in our little hot hands.
O'er brushy slopes sneaking, with
trick knees a-creaking
(apologies to Wilhoit, see Darryl.)
Is that a buck that I see, with a rack
like a tree?
Nope. Only a snag and a barrel.
Climb the steep slopes with puffing
and hopes,
Where civilized man ne'er has strode.
Up on the top, in dismay we stop;
For there, friends (HA!) is a road!
There with motor a-strain and the
clanking of chain,
A car chugs into view,
And scares off the deer both far and

Cathode Assembly Exacting



Three members of our CRT Department, Aileen Hayward, Martha Gibbs, and Vilma Leeto who grace the Cathode Gun Assembly room, are located in the cathode section of our tube department. Theirs is the very exacting operation of positioning the cathode inside the control grid cup. The cathode is the heart of a cathode-ray tube, and furnishes the electrons which in turn make the trace on the face of the tube. These electrons come from the cathode coating when it is heated.

The cathode, which is about 3 mm in diameter, is first cleaned and then fired in a hydrogen furnace to be made ready for the coating which is sprayed on. The thickness of this coating is measured under the microscope and the cathode is then placed in the grid cup with a spacer. The grid to cathode distance is carefully measured, and extreme accuracy is required in order to assure the complete uniformity characteristic of our tubes.

Vilma Leeto, one of the cathode trio, has been with Tektronix for four years, formerly in kit prep. She claims Estonia as her birthplace, having come to the States with her family in 1950. Her husband, Raimond,

CRTeasers

SCAN

Ella Hansen and Marion Peterson were hostesses to a baby shower for Mary Lou McCleary at Ella's home Wednesday, October 17. Delicious casseroles were served to most of the day and swing CRT women. Gifts for the new addition, due December 14, were very practically wrapped in diapers.

Marge Claus, our new swing shift CRT personnel committee representative spent several days at good Samaritan for an operation. We are all happy to see her back and as well as ever.

NOTE: The CRT department is not starting a school for aspiring hash-slingers it's just that we have recently acquired new uniforms.

On Friday, October 12, coffee and cookies were served in honor of Eloise Helmer. She has left to join her family in Los Angeles. A gift was presented to her from the CRT department.

near.
It should never happen to you.
A thousand deer to the mile,
To judge from the tracks on the ground,
But nary a deer could an honest man see
Though we scan all about and around.
Cigarette wrappers, coke bottles and scraps,
A season ticket to last year's fair;
Stumps and snags and bulldozer tracks,
But nary a deer showed his hair.
Now, home is the hunter, home from the hills.
In his quiver are still bits of fern.
That laughter you hear is the laugh of a deer,
All safe in the Tillamook Burn.

Lloyd (Empty Handed) Sharp
Test

joined her at Tek ten months ago, to become a member of the maintenance force. Other family members include Vilma's mother, who resides with them in Aloha, and their son Arvo, 9. Vilma enjoys volleyball and swimming, while Raimond's interests involve car motors.

For nearly a year Vilma has been ably assisted by Martha Gibbs, who makes her home in Beaverton with her husband Elton, both of whom are native Spokane residents, prior to 1941. Martha and Elton's projects are coordinated most congenially. Martha helps Elton with his leather craft, while he aids her in her gardening. Then they both find time for fishing.

The most recent member of this congenial triangle is Aileen Hayward, coming to us from the Portland Canning Company, after working there seven years. Her husband, Bill, is a buyer for that firm at the present time. They make their home in Forest Grove. Photography is their hobby, and two very interesting subjects are their two children, Dale, 13, and Dianna, age 9.

In addition to their technical work, the cathode trio frequently brighten up the department with their beautiful cut flower arrangements and plants. They would welcome a visit and an opportunity to answer your questions.

Tek's Super Sleuth

We are printing this letter in hopes of saving those unwary people who might fall into this trap. Crime does not pay! Dumm-da-dum-dummmmm.

To: Harriett Daily
Employment Office
Tektronix, Inc.

Dear Mrs. Daily,

We regret to inform you that the preliminary report on the location of your missing typewriter spool has once again been bogged down by the quantity of work which this department has to handle. However, this does not mean that we have neglected your case. We have endeavored to find the owner of the cup in which your spool was located. This person will be charged with first degree typewriter spool hiding after the facts. We have only one lead thus far. The cup has the name Barbara painted on it. We realize, as well as you must, that this vicious racket of typewriter spool hiding must be stamped out before it spreads out to become national.

Therefore, we would ask that you remain patient as we plan to throw our full weight into the problem of this heinous act.

Sincerely,

Ron Norgard

Chief of Investigators,
Dept. of Missing Typewriter
Spools

Ron mailed this, but Harriett had to pay 3 cents postage due.



THE

LET'S GET ACQUAINTED!

BIN

SHORT CIRCUITS

Unit Wiring, Assem. II, Swing.

Every working night of the week you'll find the family tree in Assem. 2 packed with nite owls, glassy eyed and hooting, slaving away.

Lots of gab floats around—lots of events take place so we'll endeavor to keep you posted.

Betty Hune married her Ivory Tower, Lester Hunter, and left for Texas. Betty's sister Phyllis joined us shortly before so we'll keep in touch with her. We miss Betty but are glad to have you aboard Phil.

Dick McKinnon, another newcomer, was married Sept. 22. Leona Caldwell was the lucky girl. We hope Dick enjoys being with us.

As for bowling news—Artie Nelson has high score in the league and Mollie Veale has high series. Are we proud!

Jean Pearson, one of our girls who has been ill for some time, is now in the Physicians & Surgeons hospital and would love to have visitors.

Tom Sly and Bud Rasmussen have not had any luck deer hunting. We hope they'll get a break soon. Bud's wife spent two weeks in California recently and he was looking sad for awhile. Now that she is home things will return to normal.

That's about all this time from the one department that can boast a girl who sings "Cow Cow Boogie" to the tune of "Honky Tonk". Come in and see us some evening.

PLASTIC CUTUPS

We're glad to welcome new members Edgil Panian, Mae Hallelwell, and Valeria Arczynski to the swing shift.

Chuck Kauffman made a hurry-up trip home the other night when his three year old daughter, Lea Ann, got her head caught in a chair. Everything calmed down after Daddy took over.

Eddie (Edgil Panian) came out second best when she wrestled a machine the other day, but is back at work, bandages and all.

Grant Buchanan has his chest way out to here because he and his family bagged their limit of deer.

NOTICE:

Russell Stover Candies will be available again this year. The assortment of boxes isn't as large, but the candy is wonderfully fresh and there is a wide assortment in the individual boxes. Orders may be filled out and turned into Norma Caufield in the First Aid Room. All orders must be in by November 14th. Delivery will be on December 19th. Watch for the color advertisements on the bulletin boards.



STOCK AID NEWS

Don Wilson saw Dick Millington coming up the isle with a cup of coffee during coffee break one afternoon and thought that he would play a little joke on him by holding the door to the stockroom shut so that he couldn't get in. Don felt someone push against it a couple of times and also try the door knob. He let loose of it just in time to see Bob Davis come jumping through the window saying "You can't keep me out". Don's only comment was "I'll never do that again".

The Millipedes Will Get You If You Don't Watch Out

Velma Mengelkoch's 28 legged bug had everybody guessing. She found it in her living room and, since then, all the family has practically been climbing from chair to chair. Research finally located the Bureau of Entomology (BE 4-8211) who described the little monster as a millipede (because it has two legs to each segment of its body). It is considered a scavenger because it feeds on decayed leaves, etc. Has a stinger, so watch out and don't handle. Hides under things like flower pots and lumber. Is more native to forests than gardens, but does feed on roots, tubers and seeds. Can be eliminated with the use of 5% DDT spray or powders. With the description and 'cure' found, quite a few of the gals showed an active interest in Mr. Mil-leporina (dictionary description, no less) and are fast considering the study of Entomology as a hobby.



For He's A Jolly Good Fellow!!

Biggest birthday of all was Al Maxwell's October 16th. He had six huge birthday cakes, ice cream, greeting cards, balloons and lots of sincere good wishes. Al sent out a few thank you notes to express his pleasure at everyone's thoughtfulness to him.

FIELD ENGI-DEARS

Judy Giesbers was very happy over having Doug home for his leave between training and Engineering Sch. at Fort Belvoir. He'll have approximately eight weeks training in 'structural drafting' before his permanent assignment. Judy hasn't made any plans for the future as yet.

Everyone is marveling at Eileen Searle's prize collection—10 Grandchildren and they are—GRAND to have. It is agreed they come out of a story-book, they are so good looking, nice mannered and so full of fun. We can all appreciate this more when we find out there are five boys and five little girls—all under five years old.

Shirley Heesen is improving after her bout with surgery on October 8. She's anxious to get back with us, but is practicing patience. We'll all be glad to welcome her back, tho, she's been missed very much. The gals have been sending her a card every day to make them pass faster.

SHOP REPAIR

Ben Brazauski, Gene Zirschky, George Kolibaba and the other fellows in repair are keeping a guard around their new milling machine because each time they get a new machine, production claims to need it, much, much, more. Nothing doing this time—it was acquired for repair, and it will stay in repair!!!!

HOW TO WIN AT GOLF—Booklet now in possession of Jack Henderson. Anyone may pursue this fascinating, down-to-earth, short and to the point pamphlet and come away with complete confidence in his or her ability to win at golf!

Assembly II has a great outdoorsman. We don't like to mention names—but he went hunting recently and a snowstorm sent him to the nearest motel.

(How about this, 'B'. R?)

This Gal Has Rocks!

Anna May Jacobs, of Quality Control is quite the fossil and rock collector. On one of her recent hunts, high on a hill, she lost her footing and dignity, but made a three point landing at the bottom—with rocks in hand!??

FINALS

John (Swapshop) Neal: If you can't find it downtown, John has it! What and when and where is your next sale, John?

Corrine Johnson flatly refused to kiss Doug McKay (as announced over the loud speaker) when he came through the plant. She's a real good Demo!!

Bill Mayer, known to his buddies as 'IOU', is in the market for a crying towel—he lost two-bits on the series!

Bill Mayer is leaving for Fort Monmouth, New Jersey, on the 30th of November. He is going to Signal school, and with his past record of R.O.T.C. in college, will come out a 2nd Lieutenant. Good luck, Bill!

Wayne James spent a week in the Steen Mountains deer-hunting and fishing with his brother and father. Between them during the season, they brought home 5 deer (two on a special hunt tag) and 60 trout. Wayne bagged a 'spike' and a doe, as did his father. His brother got a doe. The trout up there measured 10½ to 16¾". They planned to do some bird hunting, but no time, and anyone can see why.

PURR-FECT PARTY

Vera Collins gave Harry Eklof a six-week old kitten; she's white and cuddly, and she has one blue and one green eye. The girls in Mechanical dubbed her "Stinker" at the shower they gave in her honor, and presented her with such fine gifts as a sleeping basket, feeding dish, a catnip mouse, two cans of cat food, a box of sand (with which Harry was most pleased), and a cupcake and candle. "Stinker" was allowed to attend too, and purred her pleasure over the affair.

CLASSY CHASSIS'....

(Assembly I Unit Wiring)

Helen Berger, Cathy Gillenwater and Joyce Davis EACH got their deer. Viola Miller tried, but all she got was a traffic violation ticket for backing into a angle-parking space in Hillsboro (cost her \$1.00, too).

Wilma Stapleton, having never missed a day's work in two years, missed Monday, October 8th. Bad cold. But she's OK now.

Rhoda Chalupa has joined the ranks of grandmothers with the birth of Pamela Marie Ness on September 24th. Christmas isn't far away and Rhoda will probably have the stores cleaned out by then.

Moral: Do your Christmas shopping early or grandmother will get it if you don't watch out!

CRTeasers

Bob H. Johnson has finally sold his house in Corvallis and as soon as he locates a residence nearby he will move his family here. We will miss his flying Friday night departures.

Friday, October 5, the swing shift gun room crew breathed one huge collective sigh of relief. For nearly three months they have been sweating out a new arrival—Ruby Hutchinson's new Volkswagen. After breathing this sigh of relief they are settled down to the job of trying to plant Ruby's feet back on the ground.

Rose Duane is heading for the Rogue River country to try her hand at the salmon down there. We are anticipating salmon-steaks, as her famous last words were, "I'll bring some back, even if I have to buy it!"

After all, she has a large reputation as a fisherwoman to uphold.

We were quite pleased to see the return of Libbie Getgen. She has had a long seige with a quite serious burn. As part of her recuperation, she and her family took a 6000-mile jaunt covering Salt Lake City, Pike's Peak, her home in Marshall, Missouri, the Grand Canyon, Hoover Dam, and San Francisco. Wouldn't we all like to recuperate that way? It's good to have you back, Libbie.

Ann Sullivan enjoyed a vacation in San Francisco. While there she took a scenic Grey Line tour through Muir Woods, San Francisco and surrounding towns.

SCREW CREW'S NEWS

Seven couples from Mechanical Assembly day shift went dining and dancing at Rossini's on Friday, Oct. 12th. They serve Italian and American food, which pleased everyone, in that respect. The seven couples included: Minnie and Ed Berger, Lois and Sam Aulger, Vi and Fred Hawes, Lucy and Floyd Davis, Marion and Sherman Guffy, Stan and Margaret Saety and Bill and Betty Wall (Bill's to be found in QC right now—Production Engineering things). Rossini's had the Castle Jass Band to entertain the diners and swing dancing predominated. It was a little noisy for relaxed conversation, but everyone had fun and hope they can plan another in the near future. They expect a larger group next time, too.

Everyone is wild about Harry! Harry Eklof, that is. He is the youngest member in our department. He's our 'get it, bring it, and take it away' boy. And Harry, keeping all those girls satisfied isn't easy. You're doing a fine job and they appreciate it very much.

Those pipes overhead are not for decoration or to hang up wash, as some people have been suggesting. The Mechanical Screw crew is getting air guns. They will be used as spintights on #2, 4, and 6 size nuts on tube sockets, condensers and ceramic strips. There will be some screwdrivers, too, and the gals and guys are looking forward to using them. (We'll expect some funny stories out of this, too.)

Kay Newman is keeping in touch with us and reports she's just taking it easy and being patient waiting for the visit from Mr. Stork. She sends everyone regards.

SHOP

Group leader, Clyde Feitush, just bought the family a new Buick, Pink and White, no less!! Won't they be picturesque driving down the highway with their "Lavander" boat in tow!?!

We all have weaknesses. But I have figured that others have to put up with mine so tolerably that I would be much less than fair not to make a reasonable discount for theirs. It is no use to wait for your ship to come in, unless you have sent one out.

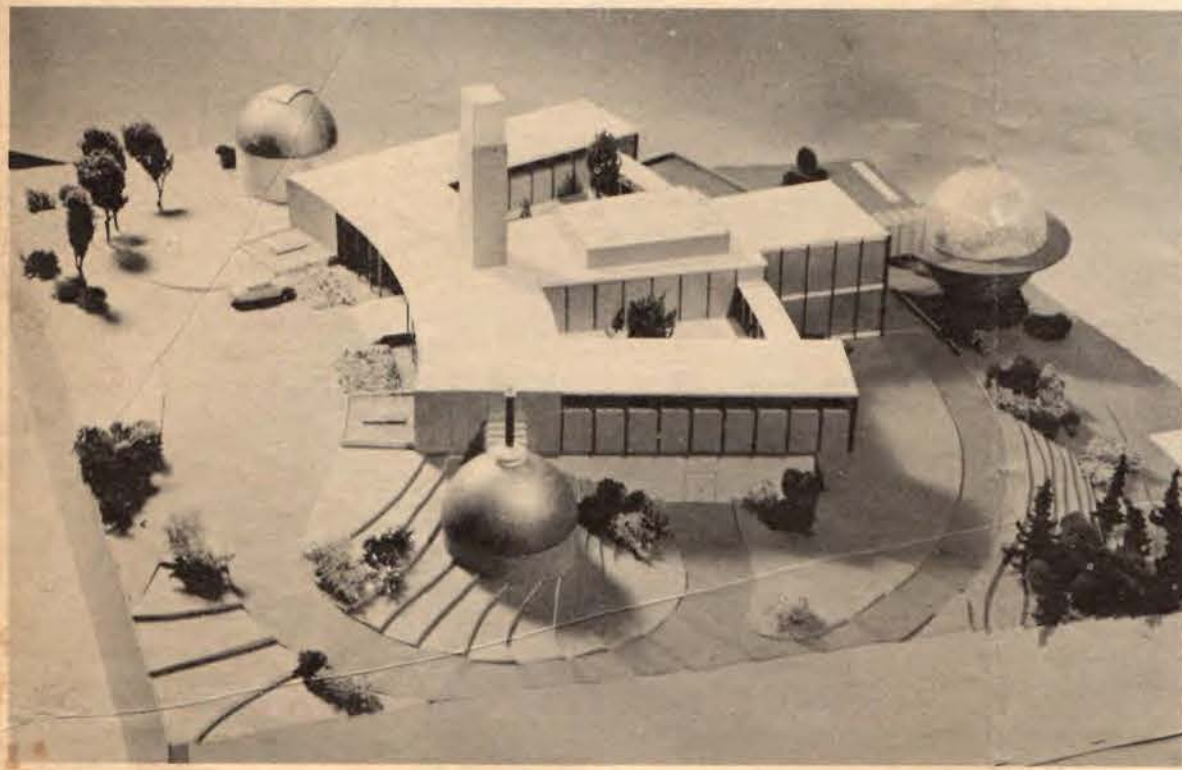
There are two things in life that you cannot waste, one is time, and the other is money. You always get something back—even if it is only remorse.

LET US
ALL
GIVE
Thanks
NOV.
22

Francis Frost
439 Prospect Ave.
Manhattan Beach, California

BULK RATE
U.S. POSTAGE
PAID
Portland, Oregon
Permit No. 740

New Science Center Progressing



Recent Figures Show Judgement Good In His Name

Tektronix people have done a good job of recommending relatives, friends, and acquaintances as potential employees. A check of the figures from January 1st through the end of November revealed that 438 out of the 625 people hired for the period, were recommended or referred by present employees. This is 70% of the total hired—a very gratifying and truly amazing record. It speaks well for the good judgment of our people in being particularly careful whom they send to our employment office for consideration.

This is to be expected in a way, because they know that another good employee will work hard, get along well with others, be on the job regularly, and make his contribution toward a continuing high profit share for all of us. A poor employee, on the other hand, will not pull his weight, may not get along well with others, and in fact could turn out to be an agitator, or otherwise unreliable, and so contribute toward a lower profit-share. Looking at it from this viewpoint, everyone benefits when we add another good employee, and everyone suffers when we add a poor one.

Why Do We Not Hire Everyone Recommended by Our Employees?

Although we do not keep a separate record of the applicants recommended by our people who are not hired, we feel that the figure is not large by comparison. However, several of our people have wondered why their friends were not hired, and have been asking questions about it. One or two of them have been downright unhappy.

Here Are Some of The Reasons

Some of the applicants are not able to give reasonable assurance that they will be able to work swing shift regularly for an extended period. Some do not have adequate care for their children. Some do not have transportation and live in an area where we are presently having trouble finding rides for our present employees. Some do not have good finger dexterity or eye-hand coordination. Some do not have adequate

vision for the fine, exacting work we do at Tektronix. (These are not rejected, but are referred to their opticians for eye examinations, and are asked to return when it is corrected.)

The above are some of the more obvious reasons that are not hard to talk about, and there is little need to keep them confidential. However, in some cases there are reasons, or combinations of reasons that we feel we are not at liberty to reveal to their friends, without the applicant's permission. We try to look at it from the applicant's point of view—how would I feel if I were the applicant and you were to give out some kinds of information about me to my close friend, neighbor, or relative. (Particularly if I hope that my friend did not already have the information.)

We have found that knowing a person socially, as a fellow club member, or as a neighbor, is a valuable bit of information to have on a potential employee, but is not necessarily enough to ensure that the person will be a good employee in our work environment, or doing our type of work. The only way our people can know about this is to actually work with him in a work environment like ours, doing the same type of work we do at Tek. However, working with him in a different work situation is much better than only knowing him socially, but still does not tell us all we should know. The friend may have been a good worker in a highly structured or autocratic work situation, but if transplanted to our democratic, loose and informal or laissez-faire atmosphere, he could be pretty unhappy. We have several people here now who feel this way and are unhappy at Tek. We do feel that we should not add people to our group who we feel would be unhappy, or be sorry they had made the change from the old job.

As an example, take the recent case of Mrs. X who was recommended so highly by one of our group leaders. This G. L. has known the employee socially, and has actually worked briefly in the same establishment with her before coming to Tek. She was seemingly well qualified. The

(Continued on page 2)

To YOU who adopted families for the Christmas Season:

Tek Talk would appreciate write-ups about your experiences and your activities:

1. Your most enjoyable moments.
2. Your most humorous happenings.
3. What sharing meant to your groups.
4. Your ideas for 1957.
 - a. Birthdays
 - b. Helping the family help themselves
 - c. What you would do if you had it all to do over again.

The January, 1957, issue will contain your answers to these questions. Your ideas are most interesting to us, because application and combinations may be just the answer to our Christmas activities in 1957.

'Who gives to another, feeds three: Himself, his hungering neighbor, and ME.'

—Lowell
"The Vision of Sir Launfal"

Thanks For Our Contributions

The HOLIDAY SEASON brings thoughts to most of us of the many people who would like to thank us for generous giving, through the United Fund, to help them all thru the year. And we too, must be thankful for having the ability to give when we can help a neighbor who cannot help himself; to help ourselves before we require help, or before it is too late to be helped.

Our Tektronix people can be proud of their 83% participation in the Annual United Fund-March of Dimes campaign, as they are assisting the agencies in doing a tremendous job, for the benefit of all. It is important that we have our own community agencies and take part in them as much as possible by attending their meetings and United Fund and Red Cross meetings; by touring the com-

Howard New OMS & I Pres.

Howard Vollum was elected President of the Oregon Museum of Science and Industry at their 12th Annual Dinner, held in November. Bill and Mrs. Webber, Jean Berlack and Arlene Swanson enjoyed attending the dinner, and we are proud to join them in offering our most hearty congratulations to Howard! One of Howard's most important acts during his term as President, will be the actual beginning of construction on the new Science Center at the recently acquired Portland Zoo site on Canyon Road. Anyone interested in helping this new project along may see Howard, Bill Webber or the Tek Talk Editor.

New Field Offices

Congratulations to Jack Cassidy, Harry Allison, Marion Rothfuss, and Joe Vistica on the efforts put forth which have resulted in the opening of the new Union, New Jersey office on November 1. This step represents a division of work from the Bronxville office and will at the same time bring Tektronix closer to our customers in the New Jersey area. Another important advantage to be realized from this split is to make it possible for our people to live in reasonable housing areas close to their work headquarters and close to customers. If any of you have ever made the trip from Bronxville into Union, New Jersey area by car you will be able to appreciate the relief Harry must feel at not having to buck traffic and shell out tolls for a solid hour (light traffic) to make this trip. We all hope you folks will now have time for at least one hobby.

Big Flash From The Field

The Thundermakers



Standing 15 feet from a bolt of lightning is not one of the duties prescribed for field engineers in the Employees Handbook. At least this is what I thought until I. R. Compton of Hawthorne Electronics and I were requested to make tests on the pot-line circuit breakers of the Alcoa Aluminum plant at Wenatchee, Wn.

Breaking 62,000 amps at 700 volts is a real sporting proposition. We ran six shots of this cataclysmic phenomena and wished each time that there had been a bomb shelter handy to duck into.

For most of us it can be a Happy Christmas if by Happiness we mean that we have done with doubts, that we have set our hearts against fear, that we still believe in the Golden Rule for all mankind. F. D. R.

community agencies in order to observe the work they are doing. We may ask questions and learn more about them, offer suggestions and offer our time to help insure continuing standards comparable to those in our own private lives.

The United Fund Drive ended officially this year on October 19th, with a victory dinner held at the Multnomah Hotel. The \$3,000,000 goal was reached, insuring another year of healthy community progress and security for those who must rely on our help in 1957.

I shall pass through this world but once.
Any good, therefore, that I can do
Or any kindness that I can show
To any human being
Let me do it now. Let me
Not defer it or neglect it for
I shall not pass this way again.
—A Quaker Prayer

The engineers at Alcoa were concerned about the action of the contacts on one of the main circuit breakers supplying the pot-lines in the reduction plant. It was our job to observe the voltage wave form at the contacts of this breaker when it was caused to open.

With our little 515 Oscilloscope set in the midst of gigantic equipment, and only 15 feet from the "muzzle end" of what we were told would be something like a small A-bomb, we waited wondering if we might even be completely overwhelmed by this thing.

When the chief engineer dropped his hand, we had just half a second to open the shutter of our scope camera and duck. They didn't disappoint us a bit; it was strictly out-of-this-world. With a blinding flash (we were cautioned not to look directly at it) and an explosive blast that you could feel as much as you could hear, we were not the least bit embarrassed about making ourselves very small down behind our oscilloscope.

The oscillographs we made for these people gave them information which they had not been able to obtain prior to this time. They were much impressed by the 515 and we were even more impressed by the king-sized 4th of July display they put on for us.

Night Calls

If there is no operator on duty and it is necessary that an employee have an outside call come in for him, the outside party may try one of the following numbers to reach the employee's department, or department nearest him. There may be some one there.

- CY 2-2611 275 Assembly
- CY 2-2612 274 Assem. Office
- CY 2-2613 230 Printing
- CY 2-2614 268 Test 5
- CY 2-2615 231 Model Shop
- CY 2-2616 259 CRT (upstairs)
- CY 2-2617 297 Shop
- CY 2-2618 210 Administration

Christmas symbolizes our deepest aspirations for peace and for good will among men. Peace is the right of every human being. D. D. E.

Tek Talk

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Test — Emil Evans, Chet Murphy	— Molly Veale
Shop — Hank Jones	— Marilyn Wolever
— Duncan Bergeron	— Helen Riley
Plastics — Al Poleen	Cables — Margaret Clymens
— Barbara Byrne	Crt — Laura Lusk
Transformers — Jane Tomkin	Manuals — Audrey Duyck
Panelcraft — Lois Bleschel	Finaling — Don Pratt
Kit Prep. — Vera Sigler	Front Office — Barbara James
Capacitors — Lloyd Morris	— Lois Reser
Ceramics — Rose Peterson	— Ron Norgard

employment office took the application, gave some tests, interviewed the applicant, checked with previous employers, etc., and rated her below average. Our recommendation was to reject the applicant in favor of another one of five we were considering. Our suggestion was that Mrs. X would be happier and better off in the long run if she kept her old job. The G. L. was quite upset, and went to his department head and pleaded the case so successfully that we agreed the department head should hire Mrs. X, on the regular probation basis.

Mrs. X was hired. Near the end of the 90 day probation period, the G.L. said he thought Mrs. X would be all right. Maybe a little slow in learning, but in time would be all right. In five months, the G. L. was worried and mentioned that perhaps we had Mrs. X in the wrong department. Couldn't we try her in another department. More time elapsed. Mrs. X is unhappy, is not well suited to the job, and is rated considerably below average. Since Mrs. X is a personal friend, he doesn't want to hurt her feelings. This G.L. said recently, "Why didn't you stop me from hiring Mrs. X? I didn't think a guy could be so wrong about a person he knows as well as I know Mrs. X." Mrs. X is still here. If we laid her off, it is doubtful if she could get her old job back, judging by the reference information.

Normally, the department head and G. L. have all of the reference information, etc., about the applicants they are considering. But in the case where the applicant is a close friend of his, our question is, should we have told the G. L. what the employer said about his close friend? I don't think so. I think I would not appreciate it if someone told a close friend of mine what my employer thought about me, particularly if it was not good. Actually the question we're asking here is, "should a department head or a group leader hire a personal friend to work in his department at any time?"

This is not an isolated case. Many more could be cited. This is one case where opinion of the employment office turned out to be pretty accurate. The employment office is not always right. There are cases where the opposite has proven to be the case.

It is often quite difficult to give our people all the reasons for not hiring a friend or relative. In some cases, we find that their general intelligence level is too low for the job, and lower than the other people doing the same job successfully. In others, the treatment of their debts is unsatisfactory. (We do not reject applicants for being in debt, because that is the reason it is necessary for many women to go to work, to get out from under a load of debts. The important thing is, do they cooperate with their creditors when they are unable to pay, or do they refuse to answer letters, phone calls, and knock on the door, and then take their cash business to another store or office?) Again, their present or previous employers may give an unfavorable report about the work habits or general work attitude. The applicant may have a history of being a trouble-maker on the job. Maybe he can't get along well with his fellow workers or with his super-

visor. His quality of work may be below average. He may have a poor attendance record, or be late many times, or otherwise unreliable on the job. In one case that we heard of, the applicant was found to be immoral and had a morals conviction on the record. Obviously, the friend knew nothing about this record, even though he was a close neighbor.

In another case, an applicant was found to have been suspended from work for insubordination, after several previous warnings had gone unheeded. In another, the applicant was a known agitator on the job, and worked hard in an effort to stir up controversial issues. In still another, the applicant had been twice suspended for bringing liquor on company premises, and for being intoxicated, in spite of several warnings. Another had a record of repeated accidents with the company car or truck. One applicant recently gave as his reason for leaving his last employer that he thought his future was very limited with that firm. On investigation it was found that his future was really limited. Records had showed that he failed to account for \$190.00 of his employer's money. Fortunately for him, the employer did not file charges, but just dismissed him from the job.

If you were the applicant, would you feel it was right for the above types of information to be given out to your close friend or neighbor? It is our feeling that it is very personal and confidential, and should not be revealed to anyone else.

From another angle, the information we get is given in strictest confidence. If it became known that we did not keep it confidential, our sources of information would soon be dried up. Some of our people have tried giving the applicant information that was given to us in confidence about his credit record. The results were pretty sad for everyone concerned, the applicant, the employee, and for Tek.

So far, our record of selecting employees seems to have been pretty good. One of the statistics commonly accepted as a reliable index of this record is the rate of turnover, or the percentage of terminations from all causes each month. Our rate is just over one-half of one percent per month. The cumulative percentage for the year 1956 is now .61 of one percent per month. For 1955, the comparable figure was .62; and for 1954, .61. Considering the fact that we now have nearly 700 women at Tek, our record is exceptionally good, about one-eighth of the national average for electronic instrument manufacturers, which is about 4 percent per month.

No matter how carefully and successfully we screen and select new employees, they wouldn't stay long if they were not treated well on the job, and were not happy here. As a company, we can be justly proud of our low rate of turnover, because we know it is made possible by the combined efforts of all of us, not by just the employment office.

COMING NEXT ISSUE —

What are the bases and some of the criteria presently being used in screening and selecting new employees?

GUEST EDITORIALS NEW FEATURE

Guest Editorials are always welcomed by companies (and their house journal editors), both because of the variety of subjects covered and the thoughtful opinions expressed.

Hiring--No Easy Task

I laughed when I saw the Tektronix movie of what we make and who we are, for the announcer with quite evident pride told of how we had grown to over 400 people. This was in 1953 and of course right now we are around the 1200 level with more to come.

Along with this growth have come many problems, none of which frighten the "Old Timers" more than that of strange new faces in ever increasing numbers. Nobody has to be a psychologist to realize that this creates tension and—yes, insecurity. Pay rates too are a cause for dissension at times. However, under our system we should welcome workers with different talents and skills, and yes, better skills. Everyone is rewarded in direct relation to his contribution and though I were unable to achieve more than minimum wage I would welcome more employees able to achieve higher wages for they are contributing to Profit Share and this I share in on equal terms with everyone.

How to integrate the new with the old is something that management is understandably concerned with. But, I believe that it is actually not their problem to solve. It's ours, every one of us must handle this problem, and we are the only ones that can solve it.

It is due to having solved it successfully in the past that we enjoy the reputation we have today. There is little that Tektronix as a corporation can do to make new employees become part of us, only Tektronix on a multi-individual basis can do this—and that's us.

Our friendly spirit and easy companionship is the heart and soul of Tektronix and it is only by continuing effort by all individuals that we can maintain this and expand and continue to offer the "friendly jobs" we have a reputation for. Have no fears about a stranger—he or she has been selected by a combination of scientific testing that rates the best in the nation. There is a very important "test" that prospective employees must pass, failure of this test means disqualification regardless of other skills and aptitudes. The test? Compatibility—the art of getting along with people based on a warm personality and consideration for the rights and desires of others. So have no fear about being first to extend a hand in welcome or a smile in friendship, our new employees are capable of returning it and probably can beat you to it.

All the dances and picnics and clubs and get-togethers we could schedule and arrange will be useless as get-acquainted schemes unless everyone who walks into our doors is immediately aware of the warm friendly atmosphere that we have now and must continue to extend in the future.

Most of us, I am sure, would unhesitatingly invest our life savings in Tektronix should the chance be made available to us. Why not invest something that costs nothing and yields tremendous returns a friendly "Hello" and a warm smile to one and all whether new employee, visitor, or friend of long standing.

"Thank you, Bob Newberry."— Ed.

CRTeezers

SCAN

Marjorie Caire started with us on October 30th. Also a native Oregonian, she's married and has 3 children. She and her husband just finished building their own home outside of Aloha. For hobbies she likes ceramics and music.

Ed Cuneo, who hails from California, but who has lived the past seven years in Oregon, started with us November 12th. Previously he was doing chemical research at Reed College. Photography and radio, are two hobbies he enjoys year-round, and skiing and mountain climbing whenever the opportunity arises.

Margaret Berndt has lived in Oregon most of her life. She started at Tek October 24th. Previously she and her husband operated their own logging equipment. A 160 acre ranch at Vernonia is home, and her hobbies of gardening and making braided rugs tie in beautifully with ranch-life. Playing the piano fills leisure moments.

Lothar Frenkel started with us on October 29th. He was born in Vienna. In 1939 he went to England,

where he attended night school. In 1945, he went to Germany as a civilian engineer for the U.S. army. Later he was an interpreter at the war trials. Returning to England in 1948, he completed his schooling, receiving degrees in math and physics from the University of London. During this last stay in England, he worked as a physicist at a lamp works. He came to the U.S. in late 1952. He has worked in the CRT design development department of Du Mont, and he was formerly in charge of CRT development at Stromberg Carlson in San Diego. He is married and has two sons. Travel and general reading are his hobbies.

Ann Bloedon has changed from swing to day shift, and finds she doesn't mind getting up on these dark mornings as much as she thought she would. Welcome to day shift, Ann! Swing shift is pushing its weight around again as another member joins the diet brigade.

Derrol Pennington was honored by day and swing shifts who combined Birthday greetings and their good wishes for his trip. (To which the Michigan snow storm paid no respect.) Derrol is home now, and it looks as though he brought "a wee bit" of Michigan with him.

Greetings From L.A.

Carl Helmer Nov. 25
12106 Ohio Avenue
Los Angeles 25, California

To all my friends in the Test Dept.,

I think that half of the salmon in the Northwest runs should be diverted to the territory of Southern California. In other words, fishing here is very poor, except for deep sea fishing. I shall get caught up on my vacations, however.

Now that my wife is here and on the road to recovery, I can cease my housework, play a little and write letters. This is, of course, an open letter, but individual letters are also on the way. I would like to take this time to thank Frank Lucero, Earl Pahlka, L. S., and the many others who assisted my wife with their time and effort.

I don't know if it is proper to mention this, but the temperature right now is approximately 80° outside, and no rain, no smog, and this being Sunday, no traffic. Actually, we live in West Los Angeles where there is practically no smog??? We are still camping in an apartment and looking for a house to satisfy us. Our apartment is about 5 blocks from the office, and about 30 blocks from the coast. We're so close to everything that so far I average only about 50 miles per week on the car. The more friends we make the more the mileage goes up. People here think nothing of living a million miles away.

Speaking for myself, I surely love it down here; climate, job, and the people I work with. Have been to a few electronic places, air craft, television, controls, etc., and find all of this interesting. On Wednesday nights I go to U.C.L.A. for a transistor class. U.C.L.A. offers all types of extension courses in the evening and it's nice to be able to take advantage of them. Have also been to the color T.V. Studios, on movie studio; visited Knotts Berry Farm, Walt Disney's studio and Balboa Beach. To sum everything up, I have no complaints (except for the fishing being poor).

Jim Cook says hello and he will see you all at Christmas time.

So to all you kind people, 'bye for now and see you next summer.

Carl



Virginia Levens transferred from CRT in October to take a new position with the tube development group including John Liedtke, Lou Bride, Jack Day and Lloyd Maurer. Virginia has been in CRT for 3½ of her 7 years with Tek, and needless to say, she is still missed by the group "upstairs." Her new job sounds most interesting, and at present is primarily concerned with development of dual gun tubes. A new room for the group is being equipped with a glass blowing lathe, spot welders, pumping equipment, etc., to handle most of the pre-production work. Lloyd Maurer, also a newcomer to the group is from Engineering. He is working with the others on development of secondary emission type tubes and very high frequency tubes. Lloyd is a Reed College graduate and did post graduate work at University of Portland. He greatly enjoys his hobby of building electronic equipment, and is interested in trying skin diving in the future. He is married and has two lovely children.

THE

LET'S GET ACQUAINTED!

BIN

Holiday Snacks

JUST THE THING FOR HOLIDAY SNACKS

Others may think they'll have better nightmares by eating strange foods and suffering the consequent digestional hallucinations produced, but John Neal and Joe Drapcak look on this as silly superstition and, being the more daring, try out the delicacies of other lands as Gourmet adventurers. For everyone's edification, these delicacies are canned 'FRIED GRASSHOPPERS' packed and distributed in Japan for Jacob Hamberger Company of Portland, under the 'Finer Foods' brand. The motif is a beautiful green and gold grasshopper. Ingredients are long grasshoppers which have been fried in cotton seed oil, properly salted and with a 'dash' of monosodium glutamate.

Other types of hors d'oeuvres to consider are: snails (French), octopus bits, rattlesnake steaks, fried caterpillars, etc. You should file this information away! You need never have a dull routine party! Just serve something unusual and be the talk of your set!

Helen Berger has confessed developing a taste for 'Fried Grasshoppers'. She was observed licking her lips after consuming one of the crunchy orthopterous insects of the Locustidae family.

Ceramics gals enjoyed the tidbits offered—Fried Grasshoppers, again. They made the remark they were a little like popped corn, only more oily. At least eight of them ate one. Chan Wang said they were properly prepared; altho he doesn't care for them, they are enjoyed in Formosa. Fried Caterpillars from Mexico may be the next treat (this on the promise extracted from John Neal, authority on foreign delectables).

Zella (Betty) Glasnapp suggested the hoppers would be more appetizing if dipped in batter and deep fat fried. They could be put on toothpicks and stuck in an avacado to make your table decorative, too.

Requirements

Marybelle Rash, famous for her inability to remember birthdates of fellow workers (and her own family, now and then), turned over a new leaf when she remembered Charlene Martin's. She asked Dianne Ross to join her in planning a whing-ding surprise birthday party—but the surprise was on them!!! Seems that Marybelle, despite her good intentions, had marked in her calendar the correct day—only one month too soon!!! Happy Birthday Charlene!

Vi Putnam, better known as Rosie the Riveter, is giving the Construction Crew some competition with her key punch machine. (Tis a bit noisy) She has been politely asked to turn the machine off at regular intervals in order to allow fellow office dwellers an opportunity to collect their shattered nerves and regain their sanity.

Just Call Him Thrifty

Warren Collier's students, at the training school, were giving his work at the blackboard their rapt attention. He too, was most engrossed in the problem at hand. Actually, the problem was more in hand than Warren realized, as he had distractedly picked up a 1/4 in. piece of chalk, and suddenly found himself making a school boy pass at the blackboard with his fingernails. That startled, red faced look isn't really necessary Warren. We appreciate trying to use your supplies to the utmost—even to the chalk dust left on your fingers, but the December Bonus looks OK, so go ahead and get a brand new piece of chalk, on us.



Purchasing Patter.... By Lewella Parsnip

With the winds of November finally dying away into big white flakes of snow, Cal Bjerke can at last settle down to work. His attention was divided for a short time when a big gust of wind (nothing to do with the November elections mind you) took a portion of his roof off. However, the roofers were right on the ball and within a day C. B. had his lid back on.

The newest addition to the Purchasing department (another refugee from Munkee Ward's yet!) is Dick Borts. He and his family, consisting of wife Carol Anne, Steven 2 yrs. old, and Susan 6 mos. old, reside on N. W. 29th St. Everyone in Purch. knew Dick was a family man without his even telling us so. All heads were bowed and everyone silently plugged away one day when the whistled strains of "Who's the leader of the band, da dum di dum di daaaaaa, M-I-Ceeee, Kay, E, Wyeeeee, M-O-U-S-E. Was Dick's face red when he realized the eyes of Purchasing were focused on him! Scott Foster then proceeded to lead the group in the last rousing chorus of the Mouseketeer theme and we all collapsed.

You should hear Don Confrey's recipe for fruit cake. AAAGGHH! Seems Don and his mother were collaborating to get one together and mistakenly creamed the FLOUR with the butter and couldn't understand why the texture was so---odd? Needless to say, when they discovered a cup of sugar left over, the light dawned. They tried a second time and ended up with a cup of left-over flour.

Don placed an order with the Ann Palmer Bakery today.

Don't let the Bull-snake whip hanging ominously over Scott Foster's

desk fool you or deter you from your mission into Purchasing Department. Scott keeps claiming it's only an "expediting tool" for sadly insufficient suppliers. However, we, ouch, erk, groan, ooooo, yipe!!, know better.

Can you think of a better Xmas present for Paul Tripp than a pair of roller skates??? Since Paul has taken over his desk in Purch., he duzzn't walk he RUNS to the people clamoring for his services.

It's a "Elvis"?, it's a Porcupine?? NOOOOO it's just our own Woody trying gamely to let his summer crew cut grow out. It isn't enough to... and it isn't quiiiiite long enough to... well, so there you have it. Bets are on that by next summer Woody will have a hairdo to compete with Charlton Heston as "Moses" in The Ten Commandments. (All in fun EW.)

Jim Morrow and Warren Trask have recently moved into new homes and what a struggle! According to Jim, everything they couldn't find a place for, went to the basement and now neither he nor his wife can locate the furnace down there. (It's gung to be a cooold winter Jim ole boy). No comment from Warren regarding basements so we'll assume that they don't use the second floor of their house, if they have one.

Betty Whiting expresses her thanks to all that attended the lovely shower held for her at the home of the Stevens', November 30th. The booties flowed like wine and baby Whiting will compete for honors in the "Best Dressed Contest of 1957."

Shop Shaving

The Forrest Schuh's are expecting Santa Claus and the Stork in a dead heat—any bets?

The Dale Holiday's new little son, Mark Benjamin, will add joy to the Merry Season for their family.

Al Briggs and Steve Huges have increased their families too. Both of their oldest daughters have married.

Tim Kirtley has rejoined Tektronix. Welcome back, Tim!

Stan Vert's evenings are full—baby-sitting while wife, Wanda, is working swing shift.

The Hunters And The Hunted

Herman Boll and Ash Ashenbrenner took a week to take the grand tour of the Blue Mountain area. Re-

sult: one spike Elk. One drumstick for each, there were four in the party.

Ed Taylor, Howard Gault, Jim Kelly and Emil Evans took their toll at Toll Gate. Result: one spike.

Ed Mitchell and Archie Yergen took to the hills of Eastern Oregon for their Elk hunting. Result: one spike.

Well, fellows, at least you were consistent!

The longest face in the shop belongs to Domie Zoucha: he lost Marilyn Hansen from his group. (She transferred to: Ash's office.)

CUPID HAS BEEN BUSY AROUND THE SHOP

Ray Heim, Pierre Philips and Ruth Chiodo fell to his blandishments, and Danny Rohrer can't resist, either. Danny's wedding will be December 22nd. The 'Best' to all you nice people.

STOCK-AID NEWS

Ken Jacobsen has now become a new threat to all bowlers! Last week he had a 240 game, and we are confident of bigger and better scores to come; especially since he got his new bowling ball.

Velma Caldwell's duties include answering the telephone in the stockroom, and the other day was overheard saying, "Hello, Stock Market!" We are all wondering what her sideline is???

The stockroom extends a hearty welcome to attractive Marlys Gosser, who joined their team in October.

We've got a new exemption for the current fiscal year. A mighty cute dependent that we're really glad is here. His name is Mark Vincent, and he weighed in at 8 lb. 5 oz. on December 1st, at 1:40 am."

Ed and Mary Davis

"The Stockroom brings news of a gal who's to wed, Corona is her name and her guy is called Fred. We wish them a life of joy, amen, health and wealth and family of ten. P. S. We shot the poet.

CAPACITOR CAPERS

On November 11th, seven girls from our department entered the bowling tourney at Hillsboro. Two of the girls placed in the money. Kay Bartmess placed in the doubles with 1011, and Ruth Lukens placed third in the singles with 605. The others were Lorraine McNeil, Harriet Anderson, Marcelle Buel, June Wooldridge and Ruby Carter.

On October 25th, 40 of them, including their families, had attended a bowling dinner at the China Lantern and had a wonderful time.

A new face in Capacitors is Oscar Olson who is helping to develop new methods and ideas.

Art Peterson, after three unsuccessful attempts, finally brought home a deer and an elk to fill the family larder for the long cooold winter ahead!

CRT Cookbook

The CRT Cookbook is (at last!!) on the way to the presses. A wonderful collection of recipes has been compiled and edited and will be bound in colorful oilcloth covers. We should have the books ready sometime during the Holiday Season. The price will not exceed \$1.00, and will be computed when we can determine the final cost of printing the books. Enough will be printed to cover the orders we now have, with perhaps a dozen extra to cover our new girls and fella's.

Taint Rough--Haah!

Four stitches, one patch and one big puff, make up Bob Marchino's new look—from the left eye, that is! Seems Bob Newberry needed lots of elbow room during a practice basketball game at Beaverton High School, but something got in his way—you guessed it! Bob Marchino's eye. The doc says it will soon be O. K., and Bob is already looking forward (out of his good right eye) to the next game.

SHORT CIRCUITS

(Assy II Unit Wiring—s. shift)

Here we are again—some old owls, some new: Some can hoot, some can't as the flu bug moved in on us and many have been off work with colds and all the aches and pains that go with it. Now that winter is well on its way in, perhaps we'll get back on schedule and kick the flu bugs out.

Thelma Salvadore was in the hospital for a short time, but is home now and doing fine.

Maxine Calhoun has also been home ill. Hurry back, you two.

Lalah Smock has been off, ill, but is back part time now and we hope she'll soon be back in "full swing".

Marilyn Caven's daughter and father were in an auto accident, over which she was more upset than they were. Both are fine now (except that Marilyn's daughter is recuperating from a bout with the measles). We wish you better luck in the future, Marilyn.

June Meyers left our midst for a rendezvous with the stork—hope it's a boy! She'll be back with us in a few months. June says thanks to all for the lovely shower given in her honor before she left.

Evelyn Dillman is leaving us for a vacation. Reason? She is being married December 13th. Upon her return she will begin working on day shift. We lose more good people to the day shift!

Winnie Ninneman is also getting married December 22, and we hope we won't lose her to the day shift too. In the process of proposing, her future husband broke his leg, but that he will be able to walk down the aisle looks hopeful. Congratulations and best of luck to both of you girls.

Mildred Hess is expecting a new addition (possibly more than one) to her family. Her Poodle "Babe" is going to have little poodles. We've been awaiting this event for a long time and there is quite a story behind it. Ask Millie about it when she feels talkative.

Bill Stout went vacationing on skis and returned with a very red face. If any of you girls are interested in learning to ski we're sure that Bill could be talked into giving some instructions. Thanks a lot Bill, for volunteering to repair some of the toys for our Christmas families and storing them besides.

Donna Ellis had a nice vacation in sunny California, and John McAllister and group enjoyed reading the postcards she sent.

MERRY CHRISTMAS TO ALL AND TO ALL A GOOD NIGHT.

A HAPPY AND PROSPEROUS NEW YEAR!

PLASTICATS

Plastics is growing again: Ella Beaver, transfer from silk screen, Lorraine Allison, Bernice Lucas, Harriet Persels and Leota Peters squeezed in on Swing Shift and are receiving warm welcome from fellow Plasticats.

Norma Christensen was giving a practical demonstration on how not to get hurt when using the air ram. The doctor says that she only needs a month vacation for the wounds to heal properly.

When smaller cars and bigger men are made, Duncan Bergeron will be the first to combine them.

The day shift is amazed at some of the 'sweeping' changes sometimes.

Ida Smith is enjoying her new granddaughter — Daughter Betty's infant.

Lucille Overland is sitting on pins and needles waiting for her son to come home on leave. Christmas will be wonderful!

* * *

Hokapontas Reports — For Plastics

Heap big Chief Hokapontas sees all, knows all and tells all. One moon ago, this moon (26 shopping days 'till Xmas) many pale face squaws from Indian Chief Chippawakee tribe come to big teepee, during big fire ball to see how the rest of bucks and squaws perform in war dance for wampum.

Little butter ball Indian Buck by name of Ridge Runner, catchem new canoe to paddle. Good luck to brave little one.

Indian Chief Chippawakee go on war path and stomp many war feet in teepee. Move household and mountains. Now we got the forward look, too. But we still many moons slow. Indian Chief ASAP still running us down. We soon leave him in dust.

Soon we smoke peace pipe, with big chiefs. Settle all wars for another season. We get much wampum. All braves and squaws will get in on the act.

Brave little ones get birch bark for Great White Father say, "Get teepee in order in one moon (24 hrs.) we can make warrior out of you." Many gray hairs came in. Many think thoughts no can spell at this sitting.

Our teepee (Plastics Shop, day and swing shift) we go out in big canoe, visit teepee of one who lose Brave but have four papoose to gather for. Get small harvest, so we reap (bleed the help) much more to help out. Merry Christmas to you Mrs. Hurdley and children Lois, David, Darlene and Gary from all of us in the Plastics Dept.

Hokapontas will see you all again, "Peace".

Blood Bank In Use

James Cook, 19 year old son of Coena Tacholsky ("Mike," to her friends in CRT) was taken to Tuality Community Hospital on November 21st. His hospital visit during the Thanksgiving season was unfortunate, (for the doc too, as he good-naturedly complained later of having foregone his Thanksgiving dinner to spend some time with Jim). We are pleased that all is well now, and that Jim will soon be home.

It was gratifying to Mike, a blood donor herself, that they were able to draw the 3 pints of blood Jim needed, from the Tektronix blood bank.

SCIMAREC

If anyone wishes to be shot, just drop into Ceramics. There you will find Inge Stromberg hiding behind some cupboard or door with his new camera ready to shoot your picture.

Barb Ruhlin is the proud possessor of a new Mercury (she must have been listening to the Ed Sullivan show). Be careful, Barb, I understand they have a terrific pick-up!!

Welcome to Ceramics, Ann Wind, we hope you enjoy it as much as we do!

Rose Peterson's son, Westbrook, was awarded a Ford Foundation Fellowship recently, for Journalism. He is presently attending San Francisco State College and is planning to teach high school journalism when finished. He has, in the recent past, held the positions of Advertising Manager and Associate Editor of the Livermore News — in a town near San Francisco.

NEW WALK WAYS

We have heard many sighs of pleasure from tenderfoots and high heel wearers as they spied and tried our new asphalt walk. We all want to say, "Thanks a lot!" To those responsible for this thoughtful action.

Then Again — It's Very Handy!

It is heart-warming and world-embracing Christmas hope and aspiration that all of us, the high, the low, the rich, the poor, the admired, the despised, the loved, the hated, the civilized, the savage (every man and brother of us all throughout the whole earth), may eventually be gathered together in a heaven of everlasting peace and bliss, except the inventor of the telephone.

— Mark Twain

SCREW CREWS NEWS

Marge Ryan's passion for earrings was indulged by her son's girl friend, who brought her, on a recent visit, 7 lovely pair—one for each day of the week!

Delores Pewonka is transferring from Mechanical Assembly to Kit Prep. We are surely going to miss you Delores, but we all wish you the best of luck and hope that you'll be really happy in your new job.

Mechanical Assembly is expecting to have their new benches in by Saturday, December 15, and then the swing shift will transfer, en masse, to join them on days. The benches will be smaller and more compact and there will be an additional row. The girls expect to have to synchronize their breathing that V. V. and H. E. will be able to get the work to them and carry things away.

But as everyone knows, there is always room for 1 (or 16) more. Bob J. and Stan S. will combine their duties as group leaders, and the girls agree they will have two of the nicest group leaders in the plant.

We in Mechanical Assembly wish one and all a **Very Merry Christmas** and a **Happy New Year!**

Thanks! To Prod. Tool. Boys

A very hearty vote of thanks is the least we can do for the boys in Production Tooling! Several of the fellows spent 45 minutes out on Barnes Road Friday morning, clearing up the traffic bound by the first snowfall of the season.

The boys pushed some 30 cars up and over the slick area just below Tek's West driveway.

Their only comment—"When in doubt, put on chains!"

CLASSY CHASSIS

Della Fortin is sporting a brand new Forrrd! It's a real beaut, Della.

Mary Jane and Joe Fanning are proud of their new home, located near Newberg.

Welcome back to:

Inge Reustig—looking quite prime after her "surprise" stay in the hospital for an emergency appendectomy.

Bea York—on full shift.

Betty Carter—after birth of baby girl.

FINALS

"Be Kind, but Do Not Feed or Pay Attention to the Animals!" is the way the sign on the benches of (Wolves), should read. These three dwell near the south side of the snack bar. They belong to the Admiration Society and may be observed bobbing up and down with the clickity-clack sound of high heels coming and going.

A HAPPY THOUGHT....

Thanks to Evelyn Johnson for submitting this poem. It was a "Happy Thought", Evelyn!

Wouldn't this old world be better, If the folks we meet would say; I know something good about you, And then treat us just that way. Wouldn't things here be more pleasant

If the good that's in us all Were the only thing about us That folks bothered to recall! Wouldn't it be nice to practice This fine way of thinking, too, You know something good about me I know something good about you!

Anon —

THE PINK AND BLUE PARADE

Greetings to the Tekbabies (four months to a few days old) whom we've not yet met in the Pink and Blue Parade—and Congratulations to their parents.

Edwin Ray	Son of Jackie and Wilson Franck	Sept. 9
Scott Mason	Son of Grace and Ralph Gibson	Oct. 22
Betty Lynn	Daughter of Betty and George Carter	Oct. 21
Susanne Marie	Daughter of Roger and Irma Feigum	Oct. 23
Mike, Jr.	Son of Mike and Dorothy Cavanaugh	Oct. 17
Kathleen Ann	Daughter of Bob and Joy Durkoop	Oct. 4
Kerry Douglas	Son of David and Marjorie Smith	Nov. 1
Mark Vincent	Son of Ed and Mary Davis	Nov. 1
Paul	Son of Kay and Roy Newman	Nov. 3
Steven	Son of Vince and Margaret van Domelon	Nov. 4
Donald Gene	Son of Gene and Norma Buell	Nov. 4
David John	Son of Jack and Neva Neff	Nov. 8
Deane Marie	Daughter of Cathy and Bob Grammer	Nov. 16
Christine Adriane	Daughter of Frank and Jean Kopra	Nov. 22
Mark Benjamin	Son of Dale and Marjorie Holiday	Nov. 23
Judy Lynn	Daughter of Ben and Sakie Aebly	Nov. 30
Carol Lynn	Daughter of Howard and Lucille Daniels	Dec. 6
Holly Carol	Daughter of Harlow and Georgia Loucks	Dec. 8
Lawrence Dean	Son of Larry and Rachel Abney	Dec. 8
Robert, Jr.	Son of Ruth and Robert Wagoner	Dec. 7
Linda Marie	Daughter of Rose and Ed Archer	Dec. 11

CRTeezers

Marion Peterson bowled a 212 at Beaverton Bowl in the HY-LO League, on Tuesday night. We're looking forward to hearing soon, that Rose Duane has also replaced her lucky Safety Pin with a "200" pin.

During Thanksgiving week CRT swing shift was nearly deserted. In the gun room we missed Karen Hayden, who was spending her vacation with her father in Sand Point, Idaho. Rose Duane spent the holiday with her daughter and family in Orange, California. She also traveled down to Mexico, where she especially enjoyed the shopping tours she took. Ron Wold spent a few days in Tacoma with his folks. Dorothy Erdt is taking a vacation (luxurious entire 3 weeks of it) with her family. Their travels, by auto, will take them thru a number of states including Utah, Arizona and California. Bill Boom is welcoming his sister-in-law and her family, who are here from The Netherlands and planning to make their new home in Portland. By the way—Thanks to Bill Boom's clever wife, the girls in CRT had a very special coffee break the night he brought them in a sample of her fruit cocktail dessert—it was delicious!

We're sure that everyone has noticed the tall, dark and handsome young man in our new place, and if you haven't been introduced (gals) his name is Bill Brown. Bill has been busy learning all about CRT and may eventually work with John Liedtke. Marge Caire is another new-comer and is working in "Bottle Prep". Welcome to you both!

Ann King and Marilyn Woolever have just moved into their own little apartment and are quite busy with Ann taking classes, and both of them working, getting settled and doing housework.

WEDDINGS

Our Congratulations to recently married Belles and Beaus to whom Tek Talk has not yet sent our Best Wishes:

Pat Mitchell and Clyde Cole	Sept. 14
Josephine Sanders and Dalbert Bailey	September 21
Raymond Hein and Nina Griffith	October 12
Ruth Howell and Jay Chiodo	Oct. 20
Mary Vanderzanden and Donald Leirner	Nov. 10

Bev Cloninger is back and looking quite spry despite her short stay in the hospital resulting from an accident.

Byron Williams and his wife enjoyed their recent vacation, going by way of the coast, to Santa Barbara, California. They traveled on to Death Valley, visiting such places as Scotties Castle and the Boraxo Company's Museum, during their two day stay. They returned home via Bakersfield.

Dorothy Yoss' son, Don, joined the Marine Corp last July and completed his basic training at San Diego. He is now at Camp Pendleton, and his family is anxiously looking forward to having him home on leave early in December. He is expecting to go to North Carolina early next year.

CRT Welcomes

Carol Weik who began work with us on November 11th. Before coming to Tek Carol was employed testing electronic equipment. Her hobbies include reading, traveling and archeology.

Twylah Stewart who joined our group November 23rd. Originally from Nebraska, Twylah has lived in Oregon with her husband and 2 daughters for about 9 years. She has worked, and taught as well, in the Ceramic Art field, and still enjoys her ceramic hobby, also knitting and rug hooking.

Bill Brown, a new CRTer since November 5th. A native Oregonian, Bill was formerly employed with a firm in watch making, jewelry manufacturing and stone cutting. He and his wife are parents of a darling little girl, five months old. A sportsman, Bill enjoys skiing, hunting and fishing.

Shirlee Vike and D. L. Daughtry	November 11
Terry and Letha Brooks	Nov. 16
Sharon Guthrie and Pierre Phillips	November 17
Bruce Adams and Virginia Ellis	November 17
Pat Feuerborn and Kenneth Millard	December 1
Jackie DeWald and Joseph Jewett	December 1
Evelyn and Paul Dillman	Dec. 13
Corona Barkhurst and Fred Hageman	December 15

Vivian Brown
988 S. E. 14th
Beaverton, Oregon

**DRIVE
CAREFULLY
OVER THE
HOLIDAYS**
The Blood You
**USE May Be
YOUR OWN**
(Tek Blood Bank)



TEK TALK



With An Eye To The Future

Ever since your child learned the attention he could get by asking the word 'WHY', he has been conscious of the many things he could learn more about. A child's natural curiosity (troublesome at times to us) should be encouraged and nurtured. Toward this goal schools, industry and science are extending more than ordinary effort to afford our children opportunities to learn and broaden their field of 'curiosity' as they mature.

The Fifth Northwest Science Exposition will be held April 13-20 this year in the Memorial Union, Oregon State College, Corvallis, Oregon. The Exposition is sponsored by the Oregon Museum of Science & Industry to promote interest in the numerous fields of physical, physiographical and biological sciences. All our children from the first grade on up can enter.

Divisions have been designated as: Elementary Divisions, grades 1, 2 & 3; Intermediate Division, grades 4, 5 & 6; Junior Division, 7, 8 & 9; and Senior Division, grades 10, 11 & 12. Wherever your child is in one of these divisions, he will be associating with other youngsters whose imagination, ingenuity and versatility of thought will stimulate his or hers and add new interest to living. The gratification of being chosen to exhibit is its own reward and any other recognition earned is credit for the thought and work well done.

Your child will do the work himself on a project of his own choosing. Guidance and advice may be secured from whatever source is available, but assistance in exhibit construction is not permissible; it must be a child's own work. His is the work and effort judged—his the merit earned. Ours the pride in him.

He (or she) will be judged on (1) Creative ability (originality), 20 pts; (2) Scientific thought, 25 pts; (3) Thoroughness (completeness), 20 pts; (4) Technical skill (workmanship), 20 pts; (5) Clarity 10 pts; and (6) Dramatic value, 5 pts. Total—100 points.

Copies of Rules and Regulations can be obtained thru the child's teacher, Mrs. Stella Hodges, Director of the Exposition, has offered to help with any questions you may have which have not been answered in the Rules and Regulations brochure. She may be reached at the Oregon Museum of Science & Industry, 908 N. E. Hasslo Street, Portland 12, Oregon. Telephone number BE 2-3807.

Have your child find out about this fascinating experience — DON'T LET HIM MISS THE FUN! Don't miss, either, the chance to help your youngster keep interested in the world around him. Don't stop their asking — 'WHY'. Notices are posted on the Bulletin Boards.

Tekmen In B.E.R.C.



Bob Fitzgerald, Department Head, Material Control, has replaced Don Ellis, Controller, on the Business Executives' Research Committee. This is a committee started by Committee for Economic Development that grew from an idea that we should enlist the services of outstanding people from our universities and from business to work together to solve the problems of how to obtain and maintain highly productive employment in a free society. It is sponsored jointly by Reed College and Lewis & Clark College.

During the three years Don was a member, two research reports were published on the "Forest Products Industry of Oregon". Don E. was Chairman of the Taxation Subcommittee.

As a result of this work, Don was one of the speakers at the 3rd Biennial Oregon State Tax Conference held on the 29th and 30th of November at Oregon State College, Corvallis. He explained the reasoning which led to the conclusions in the report in a speech entitled, "The Influence of Timber Taxation on Forest Management."

More than 250 attended this conference and heard several presentations by members of the State Tax Commission, the 1955 Legislative Intrim Tax Committee, and other informed people.

Bob and the present committee will study the meat packing business in Oregon. He will not only learn more about meat packing, Oregon, and research, but will meet and get to know several other young executives in the Portland area.

log and we appreciate his special consideration in helping us maintain our production. We would also like to point out that he performed an extremely satisfactory job of recalibrating and repairing the equipment as well as cleaning it to the point where it looks off-the-shelf new.

Service of this kind cannot be over emphasized and once again we would like to thank you for your extremely fast and unsurpassed service.

Very truly yours,
Leaming Engineering Inc.
D. W. Baisch

Don Ellis Accepts New Appointment



An appointment to serve as member of the Oregon State Board of Census has been extended to and accepted by Don Ellis, Controller from ex-Governor of Oregon, Elmo Smith. Don's aptness with figures and statistics will be of great assistance. Congratulations, Don, they've chosen wisely.

For what it's Worth
Editor to Don Ellis:

Statistics gathered by 'Direct Mail Advertisers Assoc.' indicates the annual-per-cent-rate in name and address change is: Householders 22, merchants 23, agents 29, advertising executives 39. McGraw Hill's direct mail experience shows that in normal times 497 executives out of every 1,000 move up, out, relocate, die, quit, get transferred or fired each year.

So a good sized mailing list is only accurate about two minutes!

On The Market

About 18 months ago a group of approximately 150 Tektronix people had a general meeting to discuss a suggestion made by one of our employees with regard to the formation of one or several groups interested in the collective investment of money in various stocks, bonds, and other securities or, as we know it today, an 'investment club'.

Needless to say, the suggestion was given an enthusiastic reception and a resultant outgrowth of that meeting was the formation of the Fortune Hunter's Investment Club, one of several here at Tektronix today.

It might be said of an investment club that the main purpose in mind is to make money and (hopefully) lots of it! This is well and good if such is the group's intention and their good fortune.

However, the main purpose in mind for the members of the FHIC and it may well be said for other clubs at Tektronix and elsewhere) is one of education, with the return on their monetary investment being a secondary benefit.

This education is brought about in two ways (1) via periodic telephone consultation with the groups stock broker through the treasurer-agent coupled with group study and discussion of current 'good buys' on the stock market and (2) the reading and study by each member of various pamphlets and publications dealing with the copious intricacies of stock

(Continued on page 2)

A Note Of Thanks

From our four boys from Hungary, comes this note:

'Not only in mine, but in the name of my three friends who, unfortunately, don't speak English yet, I want to say thanks to all the employees of Tektronix, Inc., that they have taken us and given us such a good start toward our new life.'

Our special thanks to Irv Smith who sacrificed many times to help us find a good job.

We have some difficulty with the language but we hope that we are able to learn it very soon. We promise that we will reciprocate your help and confidence with good work.'

Peter Feher—Sandblasting
Bela Kirchberger—CRT
Joseph Varadi—Model Shop
Paul Zergenyi—Transformers

Campship Total Higher Last Year

When winds blowing and ice and snow are piling up outdoors, summer doesn't seem far away when you look over the report from the Campship Project of Community Council, U.F. 309 boys and 292 girls for a total of 601 youngsters, each enjoyed a week of healthy, happy outdoor fun at summer camps in 1956. Names such as B'nai B'rith, Collins, Meehan, Meriwether, Red Shield (for boys) and Namanu, Westwind and Wind Mountain (for girls) soften their faces with treasured memories. Perhaps next summer there will be another week for each of them. We hope so.

The "profits" from the cigarette machines, sale of Russell Stover candies (5% of sales), and other small amounts, are pooled and given to Campship Project to send deserving youngsters to camps. This is part of small contributions used to augment the \$10,000 allocated from United Fund. We have all shared by giving to United Fund last October and this summer, say when you and I are browsing along a creek or loafing at the beach, we will know some youngster is storing up happy memories, building a healthy attitude toward the future. Your summer will be wonderful. That will be enough.

It's A Small Ounce Of Prevention, True!

Paul Belles has lost four hubcaps from his 1955 Dodge. December 21st he lost the first two, and the 'matching' ones on January 17th.

The suggestion by the police department, some time ago, to put an identification inside each cap sounds better all the time. It doesn't take long nor cost much, and it is one way to help prevent such actions by juveniles or adults who have 'taking' ways.

Have you a suggestion that might help your fellow workers?

Field Foibles



Chuck Gibson

The list of automatic computers designed for different applications continues to grow. Each design group tries to compose a name to distinguish its particular design from others. Since the names are long and unwieldy, the different computers are known by their initials: UNIVAC, ENIAC, SEAC, EDVAC, Ad. Inf.

Chuck Gibson of Tektronix, Cleveland, reports that National Advisory Committee for Aeronautics whopped up their own machine, and after searching the alphabet in frustration, came up with OODAC—Our Own Dam' Automatic Computer.

Tax Time

My tax blank came, and I must confess

To me it's just a confusing mess.

(But I'll figure it out and be glad to pay,

And thank God I live in the U.S.A.)

Tektronix Field Relations Upheld

Every once in a while we are reminded that building the best oscilloscopes is only part of the job that Tektronix must do. The attitude that resulted in the following letter is really part of our product—built-in, so to speak, in every scope. This buys us more friends than headlines do.



Attention: Service Manager

Gentlemen:

We would like to take this opportunity to commend Mr. Carl Helmer of the Los Angeles office of your company. We are a small organization with a limited amount of test equipment. Therefore, our test equipment is in operation a major amount of the time.

This week our 535 Scope needed a complete overhaul and we called Mr. Helmer and explained our situation to him. The Scope was delivered, repaired and returned to us within a three day period, which to a small organization such as ours, has proved invaluable. We understand that Mr. Helmer was working under a back-

Today's Thought...

'Small deeds done are better than great deeds planned.'

— Babson's

Tek Talk

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New Worker's Worries

THE EMPLOYMENT COUNSELOR quotes THE FOREMAN'S LETTER on the troublesome subject of what concerns the new worker as he tries to adjust himself to the maze of new conditions, which seem to envelop him during the first week of a new job. Here's the TEC quote:

Management frequently loses sight of the fact that the probationary period for new employees works both ways. From the company's viewpoint the new employee is on probation. From his point of view, however, it is the company that is on probation; he looks the company over to decide whether or not he wants to work there permanently.

To find out specifically what factors influence the new employee, the Owens-Illinois Glass Company, Toledo, asked a number of newly-hired men and women just what bothered them during the first days of employment. The answers they got related mainly to three things: success on the job, training, and social acceptance.

Those who felt uneasy about their ultimate success on the job said they were worried by such questions as these: "Will I like the job? Will I be successful in the long run?" Others, concerned about the immediate present, wondered: "How am I doing? What is expected of me? Am I doing my job correctly? Am I fast enough?"

Most people, the company learned, were confident about the quality of their work but concerned about their speed. The new worker hopes that his boss won't be impatient and won't yell at him, and that the other employees won't resent his slowness.

Acceptance by co-workers looms large to new-comers. Some newly hired employees wonder whether people will like them and be "nice" to them. They wonder, too, whether the supervisor will be friendly and fair.

The novice is also likely to be troubled by anxieties connected with learning the job. These are some of the questions in the mind of the new worker: "Will I be able to learn this mess at all? Are they giving me enough time? Does my instructor know what he's doing? Is he telling me right? Just what is this job? What else might I be asked to do?" Most problems about job instructors, it appeared, are caused by unqualified or unfriendly instructors.

Miscellaneous worries cited by new comers included confusion as to supervision ("Who is this fellow? Do I have to take orders from him?"); confusion as to procedures such as punching a time card; and the fear of being left all alone to sink or swim.

GUEST EDITORIALS NEW FEATURE

Guest Editorials are always welcomed by companies (and their house journal editors), both because of the variety of subjects covered and the thoughtful opinions expressed.

Smog Anyone?

Cigarette smoke plugs up airplanes—actually tightens the seal of pressurized cabins. When a new air transport was delivered, according to Flight Safety Foundation, a test showed a leakage through the pressurized shell of 190 cubic feet a minute. However, with the passage of time and millions of cubic feet of smoke laden air, the tobacco tars low-

ered the leakage to 90 cubic feet a minute. The tars also fouled up the orifices that meter out the exhaust air, so the transport's operators now are experimenting with filters on cabin pressure regulators.

It has long been known that tobacco tars have affected flying instruments—even blind-flying instruments—and airplane manufacturers are constantly designing to overcome smoke-tar accumulations.

Cigarette anyone?

Investment Returns Very Good--So Far!(Cont. from pg.1)

market investment. Occasional personal visits by the group stock brokerage representative are also very interesting, enlightening and enjoyable.

Due to the fact that the group has a regular meeting only once a month and since there is bound to be a limiting factor as to the amount of time that each member can devote to extra-curricular study, the educational process will by necessity be spread over a period of months or, to be more nearly correct, years. This is to be expected though since by the nature of it, the art of sensible investment simply cannot be learned 'overnight'.

Meantime, as their 'education' progresses and as the world continues to undergo periodic times of crisis, Fortune Hunters members have become thoroughly engrossed in watch-

ing the various stock issues jockey back and forth and move, specifically those issues in which they own shares. They have already learned that there are many things that affect the stock market and have found it is fun as well as educational trying to see if, after study, investigation, and discussion they have made the right decisions concerning the stock they have purchased or sold.

Incidentally, as the market stands at the present time, the net return on the group's various investments is approximately 8% so a p p a r e n t l y their decisions have been good ones. It is to be hoped, of course, that this will always be the case.

But come what may, through thick or thin, you will find the Fortune Hunter's Investment Club a very sociable, enthusiastic and eager

group of people determined to learn something about this business of investing and enjoying themselves immensely while so doing.

If you've had a yen to learn more about this fascinating field but have not known just how to go about it perhaps an investment club is your answer. If you're interested in the Fortune Hunter Investment Club go and check with any of the following officers; they'll be glad to answer any questions you may have regarding membership. You are also welcome to visit our monthly meeting held the 2nd Tuesday of each month.

President, Helen Clark, Kit Prep.

Vice-President, Walter Wie

Treasurer-Agent, Ed Kiepk

Secretary, Wilma Stapleton

Small Parts Section Has Growing Pains



First row, from left—Virginia Olson, Mary Corrieri, Aino Oluri, Twylah Stewart. Second row, from left—Dorothy Mark, Dorothy Dunstan, Dorothy Yoss, Dee Blohm, Selma Bergman, Margaret Berndt. Third row, Emma Lancot, Martha Hansen, Jean Workman.

One of the first things that one notices upon viewing a cathode-ray tube is the intricate gun inserted in the slender glass neck. There are 24 parts per gun, namely X-plates, two Y-plates, two getters, one isolation shield, one second-anode, one anode, one grid cup, one focus ring, two vertical deflection shields, two X-plate shields, seven ribbon support wires, one cathode strap and one stem.

All metal parts going into the gun must first be degreased in trichloroethylene. Parts are then shaped and support wires welded on. The parts are electropolished and then handled with extreme care, being "never touched by human hands." They are also very carefully checked. Some dimensions must be correct within .0010 of an inch. An accurate count is kept on each small part.

It amazes one to find that six very busy people are capable of supplying the 24 parts for the one hundred and twenty-five to one hundred and fifty guns which are completed each day when many of these individual parts require ten and twelve steps in preparation.

Their work has been made easier and efficiency has been increased by intricate machines designed and built by our own model shop. Operations once done by hand but now by machine include bending the support wires for the deflection plates, bending the stainless steel wire leads and spading the stud pins. Our ingenious model shop also made dies that cut and shape the deflection plates.

The old timers in this group are Emma Lancot and Martha Hansen. Emma started in small parts section in July, 1954. She lives with her husband Leonard, a Beaverton postman, in Cedar Hills. She plays golf by summer and bowls by winter. The Lancots practice on their latest acquisition, an electric organ, when time permits.

Martha Hansen came to small parts a month later. Forest Grove is

of warm sunshine, lovely old cities with their beautiful architecture, and so many people, warm and friendly as Mary.

Recently Dorothy Dunstan of Portland joined this force. Her husband, Lyle, an electrical engineer, and sons Bobby 9, Donny 7½, and Terry 5, make up the Dunstan household. Coming from Washington, D.C. four years ago, they like Oregon very much, they report, and are spending their leisure time building a home for their family.

The third 'Dee' in this group, is Dorothy Mark, who has been with us a little over a month. She makes her home in Aloha with her children Stephen 6, and Connie 3, and husband Dale W., who is the Minister of the Aloha-Huber Church of God. If time permits after her church activities, reading is her favorite pastime.

This group is very dependent on a duo who have charge of the electro-polishing of most of the small parts. Electro-polishing is done in an acid solution which brightens the metal and removes all foreign matter.

Aino Oluri, a very vivacious Estonian who came to Tek about a year ago, claims a very great liking for water sports and dancing. Her latest enthusiasm is for her little God-child, Tina, daughter of Sylvia and Helmut Kalmann. Helmut is in receiving and Sylvia formerly worked in Mechanical Assembly.

Leaving husband, Walter, to tend the mink ranch in Vernonia, is Jean Workman. She has always been active and busy with the mink. They pelt between 1300 and 1500 pelts a year. When their children, Rory Lee 9, and Patrick 7, aren't keeping them actively engaged, you'll find them square dancing. Camping is a family activity eagerly awaited.

Aren't We Gluttons

If all of the sandwiches that were eaten at Tek during a two week period were laved end to end the line of sandwiches would almost measure almost exactly one hundred miles. (Providing, of course, that there were 1327 people at Tek, and that 10% ate no sandwiches while 10% ate 3 sandwiches and 20% ate 2 sandwiches while the remaining people ate only one sandwich and that the people ate sandwiches only five days a week and that the average length of a sandwich was 30.6069213325789 772727272727...feet.)

Now Available!!!

The CRT Cookbook was certainly welcomed with enthusiasm by many this month. It has over 40 pages of favorite recipes of CRT cooks—male and female! They range from soup to dessert and include many foreign dishes. A few copies are still available for one dollar from Emma Lancot, Ext. 352.

(This was not)... A paid advertisement. (I just couldn't get the money out of them—The Ed.)

She has been at Tektronix going on eight months, has her home in Hillsboro, and beams every time she mentions Kathleen, her eleven year old daughter. Mary's first five years were spent in Italy, where her family still maintain a home. That far-away look that replaces the normal sparkle in her eyes, is just another idea about that vacation she hopes to take back to old haunts. ITALY! Just the name makes all of us think

More Groups Share Christmas With Others

KIT PREP and WIRE department did something new this past Christmas. They collected gifts for patients in mental hospitals.

They found it is possible to adopt one or more wards, and obtain names and sizes of persons in them. Then the gifts can be more personal. The groups can also have Christmas parties for their adopted ward. Arrangements must be made at the State Hospital in Salem, however, and Kit Prep started too late to do this.

Instead, they had two boxes—one for men and one for women. Gifts ranged from toilet articles and clothing to cigarettes and tobacco. Cake and frosting mixes were put in, too. The patients have access to little kitchens where they can bake cakes, muffins, etc., from prepared mixes. They can make coffee and tea, also. This gives a couple of patients the fun of baking and all the ward has the fun of eating the results.

Everyone felt this was very worthwhile project, as many of the patients are neglected or simply forgotten. It would be fun to do more another year such as give a party, etc., but time was too short this year.

STOCK-AID NEWS

The stock department's adopted family consists of three girls, ages nine, five and one year, their mother and their father, who has been in the hospital for some time. The gifts for this family started in November and by the 21st of December, we had about \$50 in cash and several boxes of clothing and canned goods. This is the second year that we have helped this family, and the participation was 100%, as before.

Bill Love and I went to the Safeway store and purchased \$50 worth of groceries and then proceeded to their home. I think the happiest moment was when the mother answered the door and saw that her family had been remembered once again.

The group decorated a Christmas tree that was sent along with the Christmas packages and boxes. The look on those little girl's faces could have broken the hearts of just about anyone. They simply jumped with joy when they saw everything.

Our plans for next year are just the same—only we will try to do more. As far as stockroom goes, we can't do too much to help such families in need. There are times when nothing goes as we plan and dream it will, then friendly help is needed. We enjoy sharing and gain by it ourselves.

SWING SHIFT—Assem. II Report on Christmas Families

Assembly II Swing Shift, had two Christmas families this year; Mrs. Maude Steele and seven children, and Mrs. Opal Mack and nine children. Food for the Christmas dinner, toys, and gifts were delivered Monday December 24 bringing to a climax all the preparations that started weeks before Christmas.

The spirit of giving that goes with Christmas was the basis for adopting Christmas families and we in Assembly II felt that sharing with others was a wonderful way to make our own Christmas a happier one.

The most enjoyable moments to all of us were those when we gave not just material things, but our time in visiting the families, in sorting and wrapping the gifts, and in delivering them to the families. Some gave a little, others gave a lot of their time and those who gave the most were probably the happiest knowing that they were doing something that made others happy.

The most humorous things that

FINAL

The final department had a real nice letter from our adopted family. We appreciated it so much, we thought everyone should read it. "Dear members of Final department,

I want to thank you from the bottom of my heart for the warmest and most wonderful Christmas my children and myself ever spent. I'm so grateful for the things you gave us and the dinner was delicious. I feel so humble and I thanked God for people like you sharing your Christmas with my family and I.

Thank you again for your generosity.

Mrs. Betty La Fontaine"

SCREW CREW'S NEWS

In preparing for our Christmas family, everyone went all out to do their best. There was 100% cooperation! It was exciting and surprising each day, finding out what was brought in and finding the right person for it. A certificate was given so each one could have a pair of shoes.

We all think it was handled like clock-work, thanks to Minnie Berger, Lois Aulger, Arlene Swanson and Betty Hull, who delivered everything.

Below is a letter received by Minnie from the father of the family. He has been a patient in the Providence Hospital for the past several months. "My dear friends,

In writing this letter, I am reminded of a part of a saying that I once heard. I quote, 'And across the Mysterious Darkness comes a fairy boat, laden with a cargo of Golden Dreams.'

When you ladies came to our home, you certainly relieved a worried mother of a problem that was hard to compete with.

As for the children, they were really excited about the fine gifts from all of you.

By your relieving my wife of all those worries and making our children so happy, you have no idea how much easier you have made my stay here in the hospital.

I wish to take this time to say thanks, and may God Bless You All. So wishing you all a Happy New Year, I hope to remain your friend and a Booster.

Mr. T. K. Johnson,

Multnomah County Hosp., Rm 108
Portland, Oregon

happened would have to be a toss-up between the delighted oooohs and aaaaaahs of a little boy frantically running in and out of the house when the gifts were delivered, exclaiming, "Oh, there are more!" and the antics of some of our own little boys(?) playing with some blocks at our wrapping party here at the plant.

Our group representative made arrangements through the Portland Police Dept. for a bicycle for 12 year old William Steele who was delivering 52 papers daily via the feet. Needless to say, he was a happy boy and rode it around the block immediately to try it out. Chief Purcell wrote a letter to the boy telling him about the bicycle. We were all very happy over that part of the families Christmas.

Next Christmas we would like to do the same but perhaps start the wrapping a little earlier. The majority of the group felt that cards for birthdays and Mother's Day would be nice and that offering yard work or other odd jobs during the summer to the children that were old enough would help out the families.

CABLEGRAMS

Now that the last bit of tinsel has been stored away for another year and we are back to normal, we can take stock of what joy we brought others at Christmas time.

We in cables had a most enjoyable time getting our baskets ready for our two families. We know why we were feeling so good about it—because we gave from our hearts.

Our one family consisted of a mother and five children. The father passed away the day before Thanksgiving, so we are sure what we did for these folks was most appreciated. When our cabler, Betty Meek, delivered the boxes of food and a gift for each one, the mother began to cry. Of course Betty shed a few, too. The small ones kept after their mother to take them to the church program that evening, but their mother kept saying they just couldn't go (no new things to wear). Well then, Betty told them to open their packages, knowing each one had something new. Then these kiddies really knew why mom had cried.

Our other family was a mother and twins. Their daddy is in the hospital in Salem. Their first welfare check had just arrived and after the rent, lights, fuel, etc., were paid, they had exactly \$6.00 to last over Christmas, until January 2 or 3rd. You might know her joy when our Santa, Pat Hart, arrived. The first thing she used was the Tide, as she was completely out of soap.

By having this extra food, it made it possible for the father to come home for Christmas Day.

We may help this mother later when she has her baby (or babies). The doctor has told her she may have twins again.

I think you all know we support a Korean child 'Bok Mi'. We do this through the Foster Parents Plan. We have letters, colored pictures, etc. from her, which makes us feel very close to her. And we feel we are really helping some less fortunate than ourselves. She and her mother and three sisters and brothers live in a tent. She says it isn't bad, only once when in a rain storm the tent blew down.

We surely do plan to help another family this year, as we were never so happy as when we were working together to help someone else.

C.U. Officers Elected

The Annual Meeting of our Credit Union was held on Sunday, January 20, 1957, at the Beaverton High Cafeteria. About 70 members and their families and guests braved the ice and snow to attend this function. Highlight of the afternoon was the declaration of dividends to be paid for the year 1956. The members approved the Board of Directors recommendation that a 6% dividend be declared. Other business included year-end reports by President Jim Boyle, Treasurer Dick Schmidt, Credit-Committee Chairman Emil Evans, and Supervisory-Committee Chairman Bob Fitzgerald. Newly elected to the Board of Directors are Cal Bjerke, Gene Cavanaugh, Emil Evans, and Dick Montag. Duncan Bergeron is the new Credit-Committee member and Hawkin Au and Scott Foster are the new members to the Supervisory Committee.

Kermit Fleck was the Master of Ceremonies for the afternoon. Entertainment was supplied by the Pitch-Pipers Quartet, consisting of Hallie Todd, Lois Kane, Maxine Cedargreen, and Hazel Hundley. Vern Bartlett, Don Pratt, with their sound-effects man Guy Borlaug, performed a one-act skit. Ted Goodfellow and daughter, entertained the members with several selections played on their tin whistles.

Door prizes donated by the Cedar Hills Shopping Center Merchants Association were given away. Drawing for the Credit Union savings contest was also held.

FINAL FOLLIES

John Neal had a short vacation over Christmas and New Years. He drove down to Bakersfield, California, and saw the Rose Parade at Pasadena. John makes better time than most tho, because he doesn't have to pass cars—he goes under them with his Met.

Dave Anderson also had a short vacation in the reportedly 80° temperatures of Southern California. He saw the Rose Bowl game and also the East West game.

Cory and Bill Johnson are the proud owners of a new 1957 Chev Station Wagon. They like it very much, except Bill has to change all his mobile gear (W7QF) from his old car to this one. What a job!

CAPACITOR CAPERS

Capacitor department had a less fortunate family of eleven to provide with Christmas cheer. The father had been unemployed since last July due to an accident.

They were quite overwhelmed by our thoughtfulness and were surprised at the amounts of food and clothing they received. The whole project went off smoothly. Everyone in the department was pleased that the family enjoyed a very Merry Christmas.

The family expressed their appreciation by saying they hoped they might help someone someday.

Harriet Anderson spent the Holidays with her family visiting her daughter in Sunny California.

We welcome back Wilma Webb after her leave of absence for the birth of her little son.

Capacitors is glad to see June Wooldridge back after her 4 weeks absence because of illness.

SHARPSHOOTERS

I shot a wire into the air,
It fell to earth, I knew not where.
Be there a gal with soul so dead,
'I wonder where that wire did go?
Who never to herself has said:
'Could have punctured friend or foe!

—Lurene Lange, UW

Thanks, Lurene, we appreciate these poems — Ed.

Ted Goodfellow's Ceramic Article Cont.

Continued from November issue.

It may be interesting to note that the strips, even though glazed, are not spaced on the batts but are placed tightly together. This is a great saving both in labor and kiln space.

Very seldom are a pair of strips taken out of the kiln stuck together. The reason for this is that the shrinkage of the body takes place sufficiently in advance of the melting of the glaze to create a safe distance between any two strips. A batt wash composed of alumina hydrate, ball clay and kaolin is used.

The firing cycle is 24 hours, approximately 10 hours to reach top temperature, one hour to soak and the remaining time to cool.

In order to get the kilns to a comfortable temperature for the workers to load and unload each morning, the mechanical engineers at Tektronix devised a unit which lifts the kiln lids very gradually starting at an early hour each morning. Each unit consists of a time clock which can be set to start the mechanism at any predetermined time, and an exceedingly low-g geared driving mechanism. This mechanism turns a small drum upon which the cable is wound which lifts the lid. While it is an easy matter to vary the rate of rise it has been found that about five inches per hour starting at about 3:00 a. m. is very satisfactory.

From the beginning Glocal type electric kilns of my own design built at Tektronix have been used. The transformer department designed and built tapped transformer units for close control and uniform heat distribution.



Hazel Davis, now Mrs. Harry B. Millette of Yreka, California, chose this unusual way to announce her marriage on December 8th. She had the above cake delivered to the coil department. She says they are looking forward to seeing their friends any time they can drop by. They will be managing Harry's motel, the Siskiyou Terrace Motel, 729 S. Broadway, Yreka, Calif. Best Wishes to you both!

LAMENT AND RESOLUTION

I thought I'd lose a little weight.
(It couldn't be the things I ate.)
It must be something in my glands,
Not something always in my hands.
'I eat so little', was my cry,
'If I don't eat, perhaps I'll die.
But I'll be noble, I'll starve myself,
Perhaps I'll lose my pod and shelf.'
'I'll exercise like mad', I said,
But that was an excuse that led
To eating food. I could not shed
A single extra ounce—how s'd!
At last I've come to this conclusion,
If I'm to lose my mid-extrusion,
I'll simply have to learn the art
Of under-eating from the start.
I'd love to be all slim and sleek,
And be admired by glance and peak,
So I've resolved to control myself.
I'll soon be slim as any sylph.
I'll soon be proud that I had the
strength,
The will power, fortitude at length
To shape myself, as I'd like another
To see me, 36-26-36, Oh! Brother!
—Slim

Notches Metalized

After completion of the firing the notches are metalized with a silver paste consisting of 65% silver, fluxes, vehicle and binder. This is fired on at approximately 1400°F.

In applying a silver paste a shaft is used upon which are mounted a number of short lengths of music wire, all properly spaced and bent identically, forming a rake which is mounted in such a manner as to dip into a small pan of silver paste when the shaft is rotated slightly. The wires pick up the proper amount of silver and this is applied uniformly as the ceramic strip is gently pushed against them. Again the pieces are placed directly on the kiln batts as they are silvered. They are then ready for firing in wire wound kilns.

The silver must be protected against oxidation soon after firing on the porcelain. We do this by dipping the strips into a solder pot and shaking off the surplus solder.

Besides protecting the silver this tin coat makes a good surface for subsequent soldering operations. The solder is composed of 65% lead, 32% tin and 3% silver.

A pot covering and a rosin flux are used in conjunction with this operation. These must be cleaned off after trimming and this is accomplished by running the pieces through five baths of solvent known as Social No. 2.

Upon removing the strips from the final bath they are placed upside down in grooved boards. This makes it easy to cement the studs into the previously drilled holes. This operation is done by hand, making use of an exceptionally strong thermal setting epoxy cement mixed with a small amount of 120-mesh silica. We bake the cement at 200°F. for five hours, after which we put spacing nuts on the studs, the concluding operation.

THE

SCIMAREC

'In the spring a young man's fancy turns lightly to thoughts of love'. Well—spring must have come a little early this year, as Dan Cupid has been busy with his little arrows.

Barbara Ruhlin became the bride of Dewayne Halverson on December 15th. Mr. Halverson is majoring in optometry at Pacific University, in Forest Grove.

Donna Mae Rohrer and a/1c Bob Richardson took their marriage vows January 26th. Mr. Richardson has two more years to serve in the Air Force.

We wish these two couples long and happy married lives.

Open house was the order of the day, or rather evening, as Peggy and Hank Jones entertained their friends Saturday, December 29th. To phrase an old saying, 'A good time was had by all!'

Nadine Classen and her family spent two weeks in sunny California visiting Nadine's mother at Hayward. They journeyed further south and took in the Rose Bowl game. Sorry OSC didn't win, but it must have been a thrill anyway.

Grace Hitchcock spent a week just loafing around the house. All right Grace, so you cleaned house.

We offer our congratulations and cooperation to Betty Peterson our new group representative; and to Montie Wallis our outgoing group representative, we say, 'thank you for a job well done!'

FINAL FOLLIES



Clyde 'Lucky' Faber wants it to be known that he takes his work very seriously. There is no fooling around when he is working, and he backs up his sincere belief that every scope must go out of Tektronix' door in perfect (spelled p-e-r-f-e-c-t) working order. He does everything about

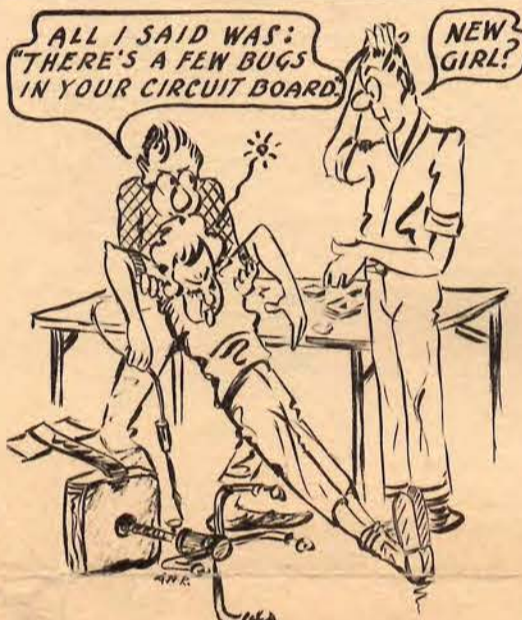
his job with this thought in mind—down to the finest detail. Don Ellis noted Clyde had even gotten the frames on his glasses changed (to further this ending, no doubt).

It seems that lately there has been a shortage of parts in finals. The other day, Bob (now known as Feather Fingers) Hart was intercepted borrowing a support rod from a fellow bench-buddy. Really caught in the act, as you say. About that time, Clyde 'Lucky' Faber made like Santa Claus at Christmas, spreading his (joy and) supply of parts, and production is back to norm again. But the boys miss the fun that went along with the predicament.



Signs of the Times'—Holiday fun, of course—Don Pratt's halo had disappeared (of course) but the 'mistletoe' remained. To aid the bashful, Don was 'pinned' with a note reading—"Well, don't just stand there, DO SOMETHING!" It brought results, too.

LET'S GET ACQUAINTED!



"Having a hard time getting back into the swing of things, Avery?"

The above cartoon was done by Margaret Andrews, coil department. Now in the dark of winter we thought Burt might enjoy being reminded of that wonderful vacation he had. Also point out to him and, in fact, all of us, that spring isn't far away and we'd best be thinking of our vacation plans. Where did you say you got those big ones, Burt?.....

WIRE TERRIERS

Marie Weisenback was elected reporter with Alice Dahl as assistant in Assembly I Unit Wiring swing shift. My goodness, it takes a lot of words to describe an area now. We keep growing so fast and make so many changes here and there.

As to reporting things, No. 1—Cathy Egger is thanked for all the nice things she wrote about us. We appreciate all the work and thought she gave to reporting.

Reporting will be handled much the same way, and anything in the way of news items will be much appreciated.

Our 'DATEBOOK' is coming along fine. Names, addresses, phone numbers, and birthdates are kept up to date. Once a month we'll have a birthday party with cake and all the

trimmings. Gifts have been kept to a few personal ones from close friends (everyone seems happy with this). Baby and Bridal showers and Farewell parties will be held as usual.

Things you notice 'all of a sudden'—



Eve Fitzgerald's initials are elf. Suits her, too.

BIN

SHORT CIRCUITS

Assembly II Swing

A farewell party was held Friday, December 28 for Fran Rinehart who left on a leave of absence. Have a nice rest, and hurry back Fran!

Jeneva Kent took the hard way to get a longer holiday vacation. She had her tonsils removed and had such a wonderful rest that she carted her two little girls to the hospital and had their tonsils removed! We are glad that all three are well now and Jeneva, we are sorry that you had to go to the Florist to pick up your flowers.

Next Christmas there will be no playing with the children's toys before they are wrapped or afterward. OK Bill and Wayne? Maybe we can get you some blocks to play with.

George Bernert and his wife Marilyn are the proud parents of a baby girl born Dec. 18. Her name is Teresa Louise and she weighed 6 lbs 14½ ounces. You'll have to work now George!

June Meyers had a baby girl December 19 weighing 6 lbs 8 ounces. June named her Billie Jean. We hope to see June back at work in a few months now. We aren't mad at you because it's a girl June.

Velma Menglekoch had a wonderful Christmas present this year. Her son Duane Hague came home on leave from the Navy. He is stationed at San Diego, California.

Cathy Eggers went to California over Christmas and came back only to get pneumonia. She recovered from that and was ready to come back to work until their garage suddenly caught fire during the night. The fire spread to part of the house and while Cathy's husband was doing what he could to keep the fire from spreading, Cathy tried to telephone the fire department but their phone was out of order. She went to the neighbors to use their phone but on the way she fell and chipped the bone on her ankle and tore several ligaments. Everything is under control now and Cathy is fine.

Thelma Salvadore made a second trip to the hospital and we all wish her a speedy recovery. She was at Good Samaritan Hospital and would welcome visitors, now.

Helen Schuening has joined us again from day shift. Maxine Calhoun and Lala Smock are back in full swing after being sick. Glad to have all of you back.

Unit wiring must be paying off! Bill Hardin has a new Thunderbird, Maryln Wolever has a new Ford, and Bill Stout now has a 54 Olds.

That's about all this time from the bleary eyed owls that really like working nights.

STOCK-AID NEWS

Every One to His Own Taste



Don (Scotty) Wilson was surely surprised when lunch time came the other day. He opened his lunch bucket to find he had an extra sandwich. He was certain his wife hadn't put in more than the usual. Upon investigation he found—ugh! a mouse sandwich! It turned out to be a rubber mouse between two slices of bread. But we nearly died laughing at the look on his face.

DRIVE CAREFULLY WINTER MAY NOT BE OVER YET SAFETY FIRST

Anna Mary Bruner
3775 University Blvd.
Houston, Texas

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IBM engineering training course includes demonstrations and instruction about Tektronix oscilloscopes shown being conducted by 'Professor' Scotty Pyle, Syracuse field office. Eddy Richmond, Portland, and Marvin Crouch, Toronto, Canada, also attended this session. Two other pictures were used in IBM's Laboratory News Letter.



An outline of our operator and application training course as used this past fall at IBM Endicott for the 530-540 Series oscilloscopes is available from Eddie Richmond (he filed it for safe keeping). It covers Background Material (what every operator should have in the back of his noggin); Basic Scope and Operation (what happens when knob twisters twist); and Applications (how to get the most out of your scope).

Very fine pictures, we say, both of the Tek instruments and IBM personnel. Our thanks to the Syracuse office for furnishing this material.

A Rhyme From Ol' Father Time

— namely Ed Bauder

BIRTHDAYS past I can scarcely recall,
Concern for my age? I've had none at all!
But some things you said on those cards of mine
Made me stop and think . . . only twenty-nine?



I have noticed, though, that golf courses are longer
And that all of my shots should be much stronger,
But how to this fact am I to resign,
If, after all, I'm only twenty-nine?



Stairs, I must admit, are getting much higher
'As I seek an elusive oscilloscope Buyer,
But these thoughts, of course, cannot be mine,
For you all stated in writing I'M twenty-nine!



Martinis now seem to me to be thinner,
While olives have grown to be almost a dinner.
The reason I fell was beaucoup vin de la Rhine,
But would this be the case at twenty-nine?



Another thing is mighty bewilderin'
Hostesses now are only mere children.
Is this the truth or only another sign
That maybe I'm older than twenty-nine?



It figures, then, that you are pulling my leg,
And that I'M really just a very old egg —
But who cares? I'll always feel nifty,
Twenty-nine, thirty-nine, or even at Fifty!



Seriously, though, you're a wonderful bunch —
Who started it all? I might have a hunch —
Not a male, I am sure, so it must be a femmy
Who else would deserve my award of an EMMY?



Ed. note: Ed is our Western Division Manager with offices in Menlo Park, California. This timely little poem was sent back in response to numerous cards mailed to honor his "Twenty-ninth" birthday.

Could EMMY be Em Langdon — Dal's secretary??

Tektronix Will Host B-E Day Educators

Business-Education Day, a biennial program of the Portland Public Schools and the Portland Chamber of Commerce, has been set this year for April 24. On this day business and industry of the Portland area plays host to the teachers of the Portland Public Schools.

Again this year as we did in 1955, Tektronix will participate in the endeavor to educate and inform the teachers of the problems, plans and projects that have gone into the product of which we are so proud.

Approximately 110 teachers will be assigned to Tektronix under this program. These educators will assemble at Benson Polytechnic High School in Portland, Wednesday morning, April 24. After the assembly at 9:00 a. m. they will meet the Tektronix representatives and will be brought by chartered Greyhound busses to the plant. Here, they will be met by the pre-assigned guides and follow a schedule for the day set up by the Program Committee.

Luncheon will be served to the entire group by the women of the Beaverton Methodist Church.

Division Heads will act as hosts at the luncheon and double as guides for the plant tour. Each will give a descriptive talk to explain the function of his Division.

Accolade Honors Achievements



Northwest "Management Man of the Year" accepts "Silver Knight" award.

Honored for special contributions in the field of management and civic activity, Jack Murdock received the "Silver Knight of Management" award at the Northwest Management Conference in the Multnomah Hotel Saturday night, March 9. This is the first time such an award has been made in the Northwest area.

In arriving at nominees to be considered for this honor the club searches out the individual's qualifications in many phases of activity. Basically these are:

1. Nominees are selected from the G.P.M.C member firms.
2. Any level of management to be eligible for award.
3. Nominee must live by Code of Ethics of N.M.A.
4. Must be outstanding in contributions to community.
5. Must have contributed substantially to management in general.

The Code of Ethics of the National Management Association adheres to the following principles:

1. He should recognize that every man above, beside or below has an inherent desire to do good work and to be a useful respected citizen.
2. He should keep an open mind on all subjects, and strive to maintain a broad and balanced outlook.

He should be willing to recognize merit in another's ideas.

3. He should deal fairly with all his associates in the company. Being in an important position, he should assume responsibility for his own mistakes and refrain from shifting blame to others.

4. He should strive to understand the principles of the business which made for success or failure of industry. He should pass on to his men all the fundamentals of business principles so they can see, for themselves, their own relations to the general scheme.

5. He should keep informed as to the latest development in equipment and processes. He should recommend or put into effect such methods as will produce improved quality and lower costs for his products, and improved working conditions.

6. He must feel that one phase of his profession is to help working people obtain maximum satisfaction from life.

7. He should endeavor to earn, and carefully guard, a reputation for good moral character, good citizenship and common honesty; and he should support and promote all the uplifting influences of the community.

Ted Renshaw, Special Engineering Representative, Lockheed Aircraft Corporation, Marietta, Georgia; President of National Management Association made the award, not only on the recommendation of the Greater Portland Management Club, but also from first hand evidences garnered on a visit to Portland plant. He was a guest here on Friday March 8, and was taken on a tour of the Plant by Henry Haase.

A good representation from Tektronix were on hand for the presentation. Over sixty people from the plant attended. Some of this group are members of the Greater Portland Management Club. Jack Murdock is a past Director of the Club, Henry Haase is at present Area Director for the National Management Association and served as president of the local club 1955-56. Bill Webber acted as a Panel Member at the Conference on the subject "Managing Yourself". The current roster of the G.P.M.C. lists Jack Day, Don Ellis, Henry Haase, Jack Henderson, Ken King, John Liedtke, Bill McCord, Les Stevens, Ken Walling and Bill Webber as members.

Any person of good character who directs the work of another person may join regardless of where he is working or for whom he works.

Industrial Nurses Welcome To Tek

To fill a long felt need, Tektronix has added to the personnel staff two very competent and experienced registered nurses for our First Aid room.

Lucille McLain will be on hand during the swing shift beginning the 1st of April.

Arlene Willcuts will follow her arrival by two weeks and take over the duties on the day shift.

Dr. Bernard will consult with our nurses each Thursday morning on a regular schedule.

Norma Caulfield will aid the nurses in becoming familiar with Tektronix, its people and places, and will then move to the personnel office to look after group insurance, the gift fund and other duties. She will replace Yvonne Moran who will be leaving to have a baby.

As soon as pictures and stories on these new personalities are available we will fill in the background.



The February issue of Reed College Bulletin announced the promotion of Jean Delord to rank of Associate Professor of Physics.

Jean has been doing consultant work at Tektronix since June of 1954. Considered to be in the advanced development group, he is advisor to the CRT people and other engineering research projects.



Dorothy Breazile

On March 12, Dorothy Breazile, an employee of Tektronix in the Cable department died following an operation.

Dorothy had been with Tektronix over a year. Her husband, Art, is employed by Bill McCord as labor Foreman and is well known to our people at the plant. A sister-in-law, Mary Breazile, works in the Accessories department.

She was born in Iowa, August 23, 1912. On Sept. 13, 1930 she married Art. They moved to the Hillsboro area in 1942 and for the past 15 years have resided at Rt. 1, Hillsboro.

Tek Talk

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European Sojourn Brings Wedding



Just back from a trip that took him halfway around the world to his native Austria, Eb von Clemm, crt happily flashes a brand-new wedding band. After an unanticipated decision, Eb claims to have been just as surprised as all the rest of us— he was engaged on December 26th to Emily Asamer, a girl he had gone to school with and known for 7 years while over in Salzburg, Austria. They were married January 8th. Twice actually, once in a civil ceremony held at Mirabell castle and a second time on the same day at Franziskaner-Church in Salzburg. For their Their honeymoon, they drove to Venice and Vicenza, Italy, where they visited friends from Oswego, Oregon, who are staying over there. The way back to Salzburg took them thru the snowy ski-paradise of Garmisch-Partenkirchen in Bavaria, where they spent a couple of wonderful days. On the return trip, Emily accompanied Eb to Amsterdam, where he had to leave her behind. He flew over the polar route, which made him a member of the 'Arctic Circle Club', to Vancouver, B. C. and from there to Portland. Emily will not be able to follow until she receives her immigration visa, which may take till summer. She will be over here, though, in September 'no matter what' she says.

On the way to Europe, Eb stopped off in New York to see Harry Allison of our New Jersey office, who took him to Dumont's tube manufacturing plant. In Holland he had the chance to see the extensive crt activities of Phillips in Eindhoven, and did not miss the opportunity to spend a day at Rhode & Schwarz, Munich, our representatives in Germany. You certainly did not waste any time on that trip, Eb!



Here's the lucky family! Ben, Steve age 2, James 3, John 7 and Sakie. LUCK OF THE... IRISH?

The guys in Test 4 are going around asking if anyone would like to touch the hand that touched the hand of the gal with the magic touch, Mrs. Ben Aeb, winner of a Seagreen '57 Chev. Station wagon. Mar. 16th was the lucky day of the Aeb's good fortune. Ben's brother had talked Mrs. A into four donations of \$1 each. Just a pretty yellow slip of paper with black printing on it, and marked with her name, (for tax purposes, no doubt) indication of her gift to the Eagles Lodge United Charity Fund. This gesture was made sometime last fall (date unknown), and forgotten as most of these things are, until a phone call informed them of their luck—on St. Patrick's Day, begorra!

Just To Say Hello

Taking advantage of the fact that Tek Talk will reach many of you before I will have the opportunity to meet you personally, I would like to introduce myself and fill in briefly some of the facts concerning my background.

Born in the wilds of northern Wisconsin on a cold February morning thirty-five years prior to my last birthday, I grew until the farm could no longer contain four busy boys. The family moved to Oregon where I have resided since 1927.

My early schooling was in the public schools in Oregon City. It was at Oregon City High School that I first became interested in writing as an activity.

As with most fellows the next most important turn of events in my life was World War II. U. S. Navy-1942-46, the radio-material and radar schools, Bremerton - Chicago - Stillwater-Ward Island-Boston and then on to a Loran school in the Aleutians.

With high hopes to get started in electronic engineering I attended Reed College here in Portland 1946-47.

However, in the summer of 1947, driven by high paternal instincts to provide an income for my new wife (Doris) who was preparing for the birth of daughter (Susan) early in 1948 I took a job in the Motion Picture industry and thereby wrote a finish to my program at Reed. A further increase in the family, son (Tommy) in 1950 kept the income requirement a prime factor and I continued with the film company until 1956.



The nature of my work in the film business allowed me some use of writing expression in the way of sales-promotion ideas, keeping the showman happy, and general letters of a more necessary nature. During these years I spent some hours at Portland State in night-school and revived my interest in writing by taking a course there in the subject.

Following the demise of the movies as the No. 1 family entertainment my office on film row was disbanded and the old man went looking for new quarters. Tektronix was my first thought as a most desirable place to work and although it took some time—here I am.

My work will be largely in the writing and editing field and with so many interesting things being done around the plant I know I should find a reason to meet and talk with everyone as the days go by.

I appreciate the warmth and friendliness of Tektronix people and hope my efforts will help to keep this wonderful feeling always with you.

Tom Williams

Don't Be A Sucker A Guest Editorial

By Scott Foster



THIS IS A TIMELY WARNING from your friendly Purchasing Agent about a surprisingly successful sucker game that is presently being promoted in the Portland Metropolitan area. Remember, buying is my business, and no one likes to save money better than I; but this racket sounds so good you can wake up to find you have "had it"!

The scheme works this way. You receive a letter from a friend, that you know either socially or through business, telling you about an exciting opportunity to make extra income. Mr. X will call you for an appointment and let you in on this deal, it's terrific! Presently Mr. X calls, very mysterious, won't tell you a thing unless you let him come to the house.

and You do. (Another way to say this is, "you bite.") Mr. X gradually unfolds a tale of pestilence that scares you out of your wits, then with fanfare and drama, unveils the gadget that will do away with garbage, flies, disease, and drudgery. (Wow! That's great! but you've set the hook.) Now, you can have this engineering marvel for just \$\$\$\$! (You probably don't know a good G. E. or Westinghouse sells for over a hundred dollars less, installed, and backed by a reputable dealer.) Furthermore, if you participate in this plan, you can pay for the gadget and make money besides! (P. T. Barnum said there was one born every minute, or was it every second?) All you do (it's so easy) is send in the names of five friends each month; they will receive letters and calls like you did, and it they bite (excuse me)— buy, you get a check for \$5.00 for each sale to one of your prospects. These prospects in turn submit names of other people who are supposed to buy, and you receive \$5.00 for each of these also. That's as far as it goes each month, but this is supposed to continue for 30 months (if your supply of friends holds out.) Even a fool can quickly see that even if half of these people participate, you have a nice little thing going here. Why, you could pay for your gadget and maybe have \$1,000.00 left over! (At this point you are supposed to be greedily fingering your pen to get this thing started.) You have forgotten all about the \$\$\$\$ you promised to pay for this gadget, and the clocklike regularity with which the payment will fall due.) So you sign the paper and give the man the names he wants. He won't come back tomorrow, it's now or never.) You sit back to contemplate your new appliance, along with all that nice folding money.

So friends, you've bought yourself a new gadget. You really have, and the men will come and put it in. No dishonesty here, except it cost you almost twice what it should have. What about all that money? Well here's the bitter truth—you'll get as many \$5.00 checks as the number of suckers you find among your friends, and their friends. How much do you think of your friends? Are they sharp, intelligent? If they are, you won't make a dime. If they are not, you have exposed them to shameful exploitation. How many of your friends will be glad you caused them to spend too much money for an appliance they were not prepared to buy? (What do you mean "don't put it that way", how else were you going to get that "extra income"? Your friends have to be suckers for you to make any money!)

Had enough? Well that's not all! If you did sign the paper, then wake up in time, you will get the rude shock that it will cost you 25% of the purchase price to cancel the contract. (Didn't you read all the fine print?) Oh, you won't pay it? I think you will, unless you want to hire a lawyer to fight the case. (Lawyers cost money too, don't they?).....

By now you may be getting the point. You never come out ahead trying to get something for nothing. The encouragement of greed is the basis for all the con games and rackets ever invented, and the toll used by confidence men and unscrupulous businesses to wrest money from surprisingly willing hands. A word of advice if I may..... Never buy anything of consequence on a "now or never" basis. If the man won't come back tomorrow you can be sure there is something he doesn't want you to find out. Always check unknown firms or products with the Better Business Bureau. (Their number in Portland is CA 7-0646, write it in the front of your phone book where it will be handy.) Always check the prices of competitive products. Never sign anything without reading all the fine print.

Follow these rules, believe in them! You'll be glad you did. Don't ever be a patsy for a con-man. DON'T BE A SUCKER!

PEOPLE AND PLACES

Recent changes in personnel status

Births		
Bill and Maureen Barnes	a daughter	2-28-57
Jim and Jane Zika	a son (first born)	2-27-57
Bill and Barbara Trump	a son	3-19-57
Doug and Mary Prouty	a daughter	3-15-57
Ronald and Veronica Van Dyke	a son	3-19-57
John and Darlene Byerly	a son	1-28-57
Orvin and Carol Olson	a daughter (first born)	2-6-57
Marriages		
Charlene Goodman to Donald H. Newlen		3-11-57
Corine Benson (Manuals) to Harold Schultz (Test)		3-16-57
Doug Taylor to Roberta Eller		3-8-57
Lois Hart to Herbert Thompson		2-1-57
Transfers		
Robert Newberry from Personnel to Statistician		3-11-57
Dave Spinks from Personnel to Training		2-4-57
Lee Wagner from Cables to Final		3-12-57
Gene Kelsey from Final to Test		3-12-57
Juanita Schenk from Cables to Wire Prep.		3-8-57
Vera Henze from Kit Prep. to Wire Prep.		3-8-57
James Lilly from Access. to Wire Prep.		3-8-57
Dick Millington from Stock to Quality Control		3-15-57
Kate Probstfield from Unit Wiring to Final		3-13-57
Betty Spohn from Unit Wiring to Final		3-13-57
Florine Sepulveda from Unit Wiring to Mech. Assmb.		3-16-57
Roland Brookens from Final to Access.		3-16-57
From Test to Field Information on 3-1-57:		
Paul Hansen, Walter Dederick, Chester Harding, Robert Johnson, Pius Scherr, and Peter Unger.		
James Parsons from Shipping to Test		3-1-57
Roderick Binger from Shop to Access.		3-4-57
Robert Mitchell from Shop to Stock		3-5-57
Allan T. Buckley from Unit Wiring Tr. to Unit W. Group Supervisor		3-1-57
James Tennyson from Trans. to Access.		3-1-57
Jack Tate from Ceramics Prod. to Ceramics Engr.		3-1-57
Ron Goard, Field Eng. from Chicago to Portland		2-1-57
Frank Amer from Janitor to Shop		2-18-57
Howard King from Portland to Long Island		3-1-57
Jimmie Hardisty from Unit Wiring to Final		3-1-57
Within CRT Dept.		
Marion Peterson from test to chemical Lab.		
Ella Hansen from test to Derroll Pennington's office.		
Val Mahaney from aluminumizing to test.		
Doris Uhrich from gun assembly to test.		
Jim Helmer from gun sealing and checking to new gun prod		
Lorraine Mercer from Unit Wiring to Phosphor.		
Terminations and Leaves		
Shirley Dethlefs	Term.	3-11-57
Martha Anderson	LOA	3-11-57
Dale Weber	LOA	3-26-57
Inge Ruestig	LOA	3-14-57
Marge Andrews	LOA	3-18-57
June Myers	Term.	3-15-57

Taken from records furnished by the Persnl. Dept. to the period ending March 15, 1957.

INTER-OFFICE COMMUNICATION
SYRACUSE

To: J. J. Cassidy
From: Scotty Pyle
Subject: Syracuse Office Overload

A good many times in the past I have indicated our office has been exceedingly busy and overloaded with work. The attached picture will give you visual proof. Please observe the following points:

1. Receiving order from customer on phone.
2. Typing up order on typewriter.
3. Adding up charges for repair of customer's scope.
4. Although not visible, Ann is making change for the Railway Express man with her right foot!
5. She still has one ear not in use, so she is taking dictation from Warren with her left foot and of course the pencil and pad are not visible.

The next time before you request temporary transfer of one of our capable girls, I wish you would take another look at this picture and make some other arrangements!



TEK SCOPE CAPTURES THUNDERBOLTS

By Lloyd Sharp

Si Corn, from our Field office at Albuquerque, New Mexico, brought back the following yarn about a fantastic application of a Tektronix Type 545 Oscilloscope. It illustrates just how important the contributions are which we, yes—you too, are making to the progress of our science and industry.

Last summer, St. Augustine Plains near Socorro, New Mexico, cut loose with its annual violent display of thunderstorms; but not quite as usual. Dr. Marx Brook and associates were on hand with a robot device built around one of our scopes, to record, for the first time, precisely what happens electrically when a bolt of lightning strikes.

Although thunderstorms have been the subject of much study, and volumes have been written about them, the exact nature of a thunderbolt has remained an enigma within a paradox, wrapped in mystery. Why? Because heretofore, measuring and recording instruments have been too dad-burned slow to keep up with anything as fast as lightning. As most people know, lightning is a big electric spark between earth and cloud, cloud and cloud, or some such; but beyond that?

Dr. Brook, Dean of Physics at the New Mexico Institute of Mining and Technology, tried photographic methods with dubious success; and was searching for faster methods when Si Corn happened along and loaned him a Type 545. (This model has two sweep circuits, 'main' and 'delaying', which may be interconnected in very useful ways.)

Let's digress a moment in the interests of those who would like to know more about how an oscilloscope works. If you already know, you may skip this paragraph. A cathode-ray oscilloscope makes electrical variations visible by drawing wiggly lines on a fluorescent screen. It has two main circuits:

1. The sweep, which causes a bright spot to appear on the screen and move across from left to right at uniform speed. This speed can be varied from very slow to very, very fast (300 miles per second!).
2. The vertical deflection system, which receives the signals that are of interest to the operator, and uses them to move the spot up and down by accurately calibrated amounts. Tektronix scopes are very proficient at these two functions, and hence are much in de-

mand among scientists and engineers.

Now let's get back to our story.

Dr. Brook removed a couple of tubes from the scope, added a camera, clock, motor, relays, light, some switches, and a counter. This contraption, seemingly straight from a Lucifer G. Butts 'Do-it-yourself' kit, he housed in a room made of 12-inch steel boiler plate on top of a 125-ft. tower, and connected it to an external antenna. Two more cameras, one at the tower and another some miles away, and a search-radar unit, completed the set-up. It was entirely automatic.

St. Augustine Plains is unique in displaying a large number of summer thunderstorms, hence is an ideal site for this type of study. A thundercloud builds up—and here is the sequence of events in the steel room atop the tower:

1. The antenna picks up the first tentative trickle of static from the thundercloud, and sends its signal to the oscilloscope. This pulse triggers the main sweep, starts the spot of light on its downward course across the screen. (Remember, this scope has been modified somewhat in order to meet the needs of this specific experiment.)
2. The 'delaying' sweep, which is set for a much faster rate, makes the spot move horizontally across the screen many times during its downward motion, forming what is called a 'raster'; i.e., several horizontal lines evenly spaced.
3. The signals sent out by the build-up and discharge of the lightning stroke reach the antenna and are passed on to the scope during this 'raster', and make the spot jump up and down as it moves across the screen, thus writing several lines of lightning history on the film in the camera.
4. As the spot passes off the screen at the bottom, a pulse from the main sweep circuit starts a motor which operates cams and switches which (a) flash a light briefly, illuminating the clock face and the exposure counter; (b) closes the camera shutter; (c) advances the film and exposure counter by one frame number; (d) triggers the shutters on the other two cameras and advances their films one notch; (e) punches a button on the panel of the scope, thereby sending the spot back to its starting point and turning it off; and (f) re-opens the camera shutter. The whole ka-

SCREW CREW NEWS

Doreen Carlson is getting along fine after her operation and long rest at home.
Gil Schuricht is back on days again after being on swing for the past six weeks, training two new men; Albert Puschert and Gerald Eastman, in the art of stacking rectifiers. Welcome back Gil.
Some people just don't know when to take a sun bath and when to burn their skin to a blister. Our own little Nan Cooper is one of those who just never gives up, red face or not. Red face??

CHASSIS LASSIES

Doug Taylor's marriage to Roberta Eller was solemnized Friday evening Mar. 8th at 8 O'clock in Portland. The 'Chassis Lassies' had a surprise shower on Doug—cakes and much fun. It seems when the groom-to-be left work Friday around noon, he had engine trouble, but finally every thing was back in tip top shape.
After holding a steady course in Unit Wiring for nine years, weathering all the storms of modifications, new instruments and plant expansions, Kate Probstfield has 'moored' her 'craft' in Finaling, where her experience and capabilities will be used to good advantage, without a doubt. Her 'ship mates' in Unit Wiring (guys and gals) wish her 'smooth sailing' on her new venture, and hope she won't forget to visit her old-home port now and then.

boodle sits and waits for the next stroke of lightning!

This cycle of operation has recorded one flash in detail, the time of occurrence and picture number as its position with respect to the tower.

During the last summer, Dr. Brook collected about 4,000 photographs of lightning flashes by this method, better than half of which were usable. His data have revealed several things about lightning, some of which were un-guessed-at previously.

First off, a lightning stroke is not quite the sudden-Johnnie sort of a thing we might suppose: The cloud has built up a terrific charge of electricity (we don't worry about how), and shoots out a 'feeler' of electric discharge about 50 yards toward the ground. This electrifies the air along this path, leaving it a conductor. About 5 millionths of a second later, another feeler shoots out along this path, and goes another 50 yards; and so on until a conducting path is established nearly to the ground. Then **WHAP!** A solid bolt shatters the current of millions of amperes flows into (or away from?) the ground. Then the cloud sets about re-building its charge for the next blast.

All these shenanigans send out signals similar to radio waves, but of colossal intensity. Dr Brook hopes to devise antennas which will separate the three types for separate recording, thereby giving more useful data.

Since lightning louses up TV, radio, and other communications, smashes power lines and towers, starts forest fires, and in general raises particular Ned, the more we can learn about it the closer we shall come to taming or diverting it harmlessly.

Dr. Brook's data will be of vital importance to power and communications companies, and may have profound influence on the design of outdoor equipment in these fields. His work may make a significant contribution to the conservation of our forests.

We can be mighty proud of the part played by every Tektronix employee in helping to provide the high type of instrumentation which enabled Dr Brook to carry out this phase of his studies so successfully.

Editors Note—Composition of the material given by Si Corn during his visit from Albuquerque was handled by Lloyd Sharp, test engineering.

Lloyd's physics undergraduate thesis was written on the build-up of dry thunderstorms, and we appreciate his write-up very much, both for the authenticity of the text and the interesting readability of the article.

ACCESSORIES

Beulah Veach was the recipient of a brightly polished red apple, complete with worm. Now has the title 'Teacher' since instructing new gals in the art of assembling accessories.
Al Hand wants a pair of old-fashioned horse blinders. He just can't resist looking up whenever someone passes by, now that he is on the aisle in new quarters at the east end of Assembly II.
Gene Brink has had a cold on her birthday every year for four years. One way of getting out of spankings; Gene—sympathy instead.
There are only two girls in front front row of Assembly III who are married. Coincidence?
Artie Nelson received a beautiful trophy for bowling high game at the Beaverton Bowling Alley in the Tektronix bowling league.

NEWCOMER ????

Overheard of Scott Foster: "If you think we're confused, you should have seen Howard Vollum last week running around in the Shipping department trying to find a door back to the front offices. Paul Belles finally came to his assistance and gave him directions that probably sounded something like— "Straight ahead 3 oscilloscopes, turn left, past the coat racks, hurdle the shipping cartons, and dead a-head." (DON'T snicker - - - - this could happen to YOU!!!)

New Arrivals

- Test**
- | | |
|---------------------|-------|
| James Manuel | Swing |
| Willard Kraker | Swing |
| Dan Delano | Swing |
| Howard Plaschka | Swing |
| Carl Jorgensen, Jr. | Swing |
- Production Tooling**
- | | |
|--------------------|-----|
| Donald Hendrickson | Day |
| Oren Fowler | Day |
- Finals**
- | | |
|----------------|-------|
| Ernest Curry | Swing |
| Douglas Beadle | Day |
| Ralph Clure | Swing |
| Norman Harty | Swing |
- Shop**
- | | |
|---------------------------|-------|
| James Meeker | Swing |
| Herbert Ross | Swing |
| Hap Flynn (Tool Crib) | Swing |
| Virginia Haupt (slk sern) | Day |
- Unit Wiring**
- | | |
|------------------|-------|
| Clara Duncan | Swing |
| Dorothy Stahly | Swing |
| Margaret Siewert | Swing |
| Lorna Choate | Swing |
| Terry Pearson | Swing |
| Thelma Fischer | Swing |
- Accessories**
- | | |
|-------------------|-------|
| Mildred Deardorff | Swing |
| Irmgard Jockers | Swing |
- Stock**
- | | |
|---------------|-----|
| Joseph Hogan | Day |
| John Fletcher | Day |
| Robert Perry | Day |
- Field Engineers**
- | | |
|-------------------|--|
| Robert Browning | |
| Russell Fillinger | |
- Field Information**
- | | |
|----------------|-----|
| Shirley Kilcup | Day |
|----------------|-----|
- Panelcraft**
- | | |
|-------------------|-----|
| Richard W. Sether | Day |
|-------------------|-----|
- Kansas City**
- | | |
|-----------|-----------|
| Lena Boyd | Secretary |
|-----------|-----------|
- CRT**
- | | |
|------------------|-----|
| Ed L. Cornellis | Day |
| Mildred Richters | Day |

STRIPING — STRIPPING — STRETCHING

— By Norma Caufield

Wire, that is.
That little corner in the southwest corner of Assy III is devoted to the preparation of wire and cable for the kit preparation, accessory, and transformer groups and cablers.
Four pleasant people greeted me as I rounded the corner to satisfy my curiosity about the machines I could hear operating rhythmically. Jim Lilly, who has been with Tektronix for 6 years, mostly with the accessory group; Juanita Schenk, who was in cables most of her 3 years at Tek; the other two, Vera Henze and Joyce Ness were working with Jim and Juanita as part of their indoctrination for work in other departments such as kit prep. I stated my purpose and immediately was properly introduced to the various machines surrounding me.

To my left, as I entered, were bundles and bundles of assorted size and colors of wire, end product of the four machines. The first machine on my right was the **stretcher**. It was greedily eating bare copper wire at a terrific rate. This instrument of matriculation could take any 14, 16, to 22 wire, stretch and cut it in required lengths for our instrument assembly.

Next I was introduced to a larger instrument of torture, stretching and cutting covered wire. **Chomp, Chomp! Flip, Flip!** The ends of the wire were stripped a required length ready for unit wiring assemblers to put neatly in place. No messing around with this machine either. Another time-consuming job mechanized. This machine cuts required lengths from 2" to 8' and from size No. 26 stranded to 62ag cable, for instance. The bundles of 50 are made up by hand at the present time. When Jim pointed out some long lengths of cable over 8' must be made up by hand right now, Vera and Joyce just smiled when I looked their way.

AH! Now the explanation of that queer looking gadget against the wall! An over-sized hair dryer attached to a whirl-a-gig (with spots of various colors) and an out-sized stove pipe. The "Striper"

What started out as a headache for everyone, is now putting out coded wire at 140' per minute in up to three color jobs. Starting with basic colored wire (white, black, yellow, purple, tan and grey) the pots (of the whirl-a-gig) are filled with paint and the striping begins. Blower warmed, pulleys checked, wire traced thru various tension producing set-ups,— action! Plain wire rushes over the pulleys; thru the paint pots, spinning like dervishes; up the chimney and down— 65 feet of chimney for drying purposes; then wound onto the metal reels you see stacked so neatly here and in cable dept. The 'pot' is an intricately designed mechanism which applies a tiny stripe to the wire, with the first code color slightly wider facilitating easy pickin'. Smearing is strictly taboo, so proper consistency is watched closely. The paint is dry by the time it reaches the top of the 32' stack.

The roulette wheel, dubbed 'The Old Goat', is actually a paint mixer upon which two sets of code colors can be mixed at a time. Vinyl color concentrate in crystal form, menthohethyl, Ketone CD ink and thinner are used in the mixer for wire striping.

U W days

When you have a friend going to beauty school the least you can do is cooperate and act as their guinea pig, isn't it? Lou Mellinger cooperated until she had George Scott so confused he gave up trying to remember if a blonde or brunette worked at her bench.

FINAL FOLLIES

GIRLS — BEWARE !!!
Don Pratt has announced his engagement to Cecelia Rech. That large diamond has finally found a home!
Bob Wruble recently spent honeymoon in Mexico and California, now spending time at home with— the mumps!



Congratulations were in order to Corine Benson, Manuals, and Hal Schultz, Test, on their marriage Saturday, March 16. Corine is shown above sharing cake presented to her by well-wishing friends. Couldn't happen to a nicer pair!

CRT — SWING SHIFT

Around here—swing crt, that is,—we are considering adopting the moniker of "Ailment Alley Association".

Libbie Getgen was nominated to a membership in the Association when a rather inconsiderate red-light-runner hit her car Tuesday, March 12th. She received a slight concussion and was taken to Good Samaritan for observation.

Marge Claus returned March 25th after a sojourn in Good Samaritan where she underwent surgery - which entitles her to a lifetime membership in the AAA.

Maxine Hoggatt deserted us for a week to consort with a handsome(?) flu bug. The attachment wore thin, however, and we have her back. The flu bug flunked his membership exam, but Maxine passed hers with flying colors.

A very belated 'Welcome Back' to Mary Lou McClary. It seemed so natural to have her back again that we almost forgot that she had been away. She rejoined us in January after presenting her husband with a baby girl, Mary Jeaneete, on Christmas day. Needless to say, Mary Lou received a lifetime membership.

Prospective members for the Ailment Alley Association, include Ann Sullivan, Rose Duane, Ruby Hutchinson and Karn Hayden. They have been faithfully trekking to Mt. Hood each weekend in an unsuccessful (so far) attempt to qualify for the Assoc. Assorted bumps, bruises, sore muscles, strained tendons, and frozen toes are not quite sufficient for eligibility for the Alley. Keep trying, girls,— any ol' broken bone will do!

Day shift would like to add these candidates for AAA. Marge Earlywine, who is back in the Phosphor Room after having been gone since Christmas. She spent some time in Providence Hospital but is feeling fine now.

Barbara Schwerin, who was in St. Vincent's Hospital, but is back on the job in Testing. She came back March 14, after having been gone since February 8th.

Also, Lou Bride, whose smiling face is seen in crt again. He came back March 13th after his sojourn in St. Vincent's Hospital.

SHORT CIRCUITS

Unit Wiring Assm. II — Night S.

Income tax time is here again and people have evidently been so busy with their tax forms they haven't had time to make news! However, we had a few incidents that we'll endeavor to report.

Maxine Calhoun and Marlene

Conklin left us March 29th to see some bird about something — oh yes, it was the stork they were to see about — well, shucks, you know! We will let you know the outcome. Best of luck to both you girls.

There have been so many transfers to days these past few months and so many new people have come in that it is almost impossible to keep up with them. We always miss the people that leave and are always happy to welcome all the new people.

Mollie Veale was gone for three weeks, one of which she spent in the Emmanuel Hospital for surgery. It's sure nice to have our Nestle's commercial singer back with us.

That's about it from the Nite Owls this time. We'll leave you with this little thought from James J. Metcalfe's, "Who Work At Night". "... But they deserve a lot of thanks, And all the praise in sight, Because they keep the world alive, Throughout the weary night!"

CRTeezers

The gals in small parts, crt, were very pleasantly surprised on Tues. morning, March 12th, when Twylah Stewart, one of their members, brought each of them a beautiful ceramic cup she had made for them in her ceramic studio in her home.

They are large barrel shaped cups and each of them has a cute cartoon and witty saying on it connected with some joke or comment concerning each girl. It was a complete and wonderful surprise to all. The cups have been on display in the small parts room and have been viewed by many.

WIRE TERRIERS

The Wire Terriers had a skating party at Shute Park in Hillsboro which we hope will be only the first of such family get-togethers. Had a fine turn out and some turned upside down!

Among those attending were Ted Buckley, his wife and daughter; Charlene Newland, husband and daughter; Eleanor Brunswick and Opal Barth (should have received a prize for keeping in tow the branches of their family trees.) Peter Teher, who gave us an exhibition of Hungarian style skating which was quite similar to our own—his company was enjoyed by all. Elsie and Roger Blatter, who are so enthused they intend to go skating every Sunday as a family affair. Ruth Wagoner was there with her two oldest children (baby 3½ months, but too little for skates). Helen Moser with friends, and Marie Mayer held up her young sister for a few rounds. Carol Turnage came with her children and surprised everyone by not falling. Pat Lowry and three little gals were there. We noted Icel Schroeder came but didn't venture out on the floors.

PURCHASING PATTTER

We trust that all the wives are already "in" on this bit of news, so we'll let it be known that on the eve of March 14th, 1957, Cal Bjerke, Dick Borts, Paul Tripp and Dick Tollisen attended their Industrial Purchasing class at Portland State to take their finals for the semester. Since it was right on their way home (so they sez) and they all assumed they passed with flying colors, the boys decided to celebrate the big event by stopping in at the Club Portland to catch the floor show. The floor show just happened to be Little Miss Sparkle— y'no, the one that's always perched on the edge of a glass in the newspaper? She got off her glass long enough to provide excellent entertainment and the fellows really enjoyed themselves. Yesssirreeee, this Higher Education is really something !!!

Purchasing department has joined the trend toward bowling for relaxation and after a hard day over their calculators they stop in at the Canyon Bowling Alley and lob a few this-a-way and that-a-way. Jim Morrow almost decided to give up the sport after gutting five in a row one nite. However, last week he was high man so his attitude (and score) has changed. Jean Kay and Betty Whiting are excluded from this see-lect group since they get higher scores. (A-har, har.)

With Purchasing's acquirement of additional footage also some new faces to fill up the space. Otto Zach will be working with Bill Ebelmesser and Don Confrey, purchasing local supplies and this 'n that. Ted Woodhouse is now doing the scheduling for Ceramics, Transformers and the other various "Tek Mfg." departments. Purchasing now numbers twelve and if we get any more it's going to be difficult to feed us all on only one birthday cake. Anyone for cookies?



SHIPPING

Guided Tours through Shipping department can be arranged, for a slight fee, any second Tuesday of the week, as shipping department is having its share of remodeling and tactical maneuvers along with everyone else. All this has prompted some other ingenious ideas:

They are in the market for two trained chimpanzees to read serial numbers on instruments stored near the ceilings, must not be afraid of heights. Parachutes available or can use 'Handy Jack Stair Stand' if space permits. (Ev, of Flying Tiger Airlines, has indicated they would transport said chimps, if properly caged, for a slight 100% above average rate. You should see what one free-moving, freedom-loving, unleashed monkey can do to a transport's cockpit!!)

They are also offering to run a 'lost and found' department for lost girls. Will treat gently and guide to proper entry. A supply of headache pills and crying towels kept on hand.

SCIMAREC

Softball! Harbinger of spring! Ceramics boasts four top players and conversation is spiced with sandlot phrases. Montie Wallis, Joyce Braukman, Janet Ruhlin and Janet Hoodenpyl make up the foursome and we're looking forward to some top-notch playing this summer. If you are interested in softball, you should see one of these gals— Tek ought to have enough players to make up a fine team.

Inge Stromberg is busting his buttons over his Hillman Minx, little English car.

Everyone in Ceramics can be identified by the 'Blue' look— new shop coats for everyone.

Rose Peterson's postponed vacation to visit her son (when she slipped on some soup that was spilled last fall) was termed 'earth-shaking' in her descriptive vernacular. You guessed it, she was in San Francisco during the earthquakes.

Two of the gals have had forced vacations. Collette Herrick because of her children's illness, and Esther Johnson, who can't blame it on anyone but herself. Esther has been off for several weeks and is missed very much.

Donna Rohrer Richardson is leaving to be with her Air Force husband in Spokane. Spokane's gain, Portland's loss, we say. Ours, too!



**John Whiteside Carrol Wright
—Maple Mashers of The Month—**

And the maple fell something like this: John's score, 211-180-195-726 with handicap. And Carrols; 200-155-212-678 w/handicap.

This 'grudge' game should have been State Tournament play when that maple-mashing crew from Shop really banged the sideboards at the Beaverton Bowl(ing alleys) in February. The counter-challenging team from Engineering hoped to make them 'eat' a few pins (with A-1 Sauce, that is) but here are the results—all scratch:

Shop		Plant	
Bob White	519	Don Pratt	552
Ash Ashenbrenner	637	Slim Sorenson	540
Ernie Annas	552	Frank Thomas	505
Lee Miller	568	Bill Wall	555
Will Johnson	592	Armon McDowell	565
Total pins	2878	Total pins	2717
Team Average	191 plus	Team Average	180 plus

Ash's games were 214-235-188

The winning Class A team at the State Tourney this year was 2871 — it looks like we have some champions!

Miller Duris, (capacitors) really knocked them dead at the "State" meet in Salem in Feb. And believe me the wood was really falling hard. He shot 625 in Class A Singles, to come in 8th. He was holding his own in All Events too, which was 515-552-625 for a 1692 which wasn't quite enough for big money, but real good shooting.

Bob White (plastics) also was in the money at the Tournament, he hit 610 in Class B singles to come in 12th, which is real good too!

Gale Sickler (receiving) was in there pitching too, he rolled 573 in Class B Singles to come in 58th.

Will Johnson (shop) also did himself real good, he didn't win much money, but it sure was good shooting! At the State Tourney he shot a 183 triplicate in Class A Singles.

CLUBS and CAPERS

FOR PROS OR DUFFERS

Tek Golf Season opens April 23rd at 4:00 P. M. Husbands, wives or friends are welcome to participate in the ninehole starter game. A group of interested golfers met and, acting as the committee, completed arrangements for the opening game. There's a 'once-a-month' game and End-of-the Season' Tournament anticipated. Sawyer's has sent us a challenge, which is hoped will be met in early summer. If enough interest is shown, lessons will be loked into (for wives, etc., too). Handicap Committee is Jim Peabody and Hal Busch. **COME AND HAVE FUN! YOU ARE VERY WELCOME!**

Rockhounds

"The Rockhounds", a new group with a common interest in the out-of-doors and geology in particular, met in an organizational meeting at the Cedar Hills School Friday, Mar. 15 at 7:30 p. m.

About 30 people attended the first get-together. They intend to have monthly meetings hereafter on the second Friday each month at Cedar Hills School. New officers for each meeting will be selected from the roster. The Secretary, Helen Solem, will continue to serve for an indefinite period.

Membership is open to all employees of Tektronix.

Radio Amateurs Club

On March 2, 1957 the club's first formal meeting was held. At this meeting the club officers were installed. At this meeting we had a fine guest speaker in the person of Edward F. Conyngham, W7ESJ. Connie is the Section Communication Manager of the ARRL Communications Department. Connie gave us an interesting talk on the history of Amateur Radio and its only organized representative, the American Radio Relay League. This meeting was concluded with the serving of refreshments. The club wishes to express its thanks to W7ESJ for giving his time to help get this club under way.

Plans for the near future include code and theory classes, the acquisition of a Station License, and Field Day activities during the coming year. Look for an article next month with more about our plans for Field Days.

Through the efforts of Chuck Mallison the club has been fortunate enough to have available a five kilowatt gasoline driven generator for its Field Day activities.

The Tektronix Radio Amateur's Club is open to all employees and members of their immediate families who are interested in Amateur Radio or other electronics projects. Any interested persons are encouraged to contact any of the club officers for complete details.

Regular meetings are held the first Saturday of each month.

Club news may be submitted directly to the Editor or through a group reporter.

ASSEMBLY II — Days

It wasn't Marianne sifftin' sand at Seaside, it was Pat Huddleston; along with Nancy Berger and Luaranna Mellinger. They spent the weekend 'dear' hunting and if their smiles are any indication of their luck, I'd say they found their game!

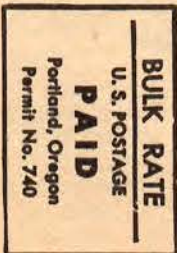
Margaret Garrett is wearing a beautiful diamond on her 2nd finger, left hand. Ralph Livermore, finals, is the lucky guy!

A group of girls from the day shift accepted a bowling challenge from the Night-owls on a recent Sunday afternoon and took 2 of the 3 games. They are eagerly awaiting a rematch. Evelyn Meyer led the winning team and Helen Moser was high for the swing-shifters. Evelyn, Nancy Berger and Artie Nelson recently bowled 200 games again and received pins to prove it.

Starting in April, there will be one birthday party a month, with all claiming an added year, sharing honors.

WHERE DO YOU REALLY LIVE?
To that oft repeated phrase that gives the postman his laurels as the conqueror of adverse weather should be added "... and wrong addresses." Tek Talk evidently is not getting thru to some on the mailing list. Be sure your address is correct... who knows, you might want a check mailed to you someday. Mailing date of Tek Talk is posted on Bulletin Boards throughout the Plant. If you don't receive yours, or if you hear of someone who doesn't and have mailing address correct — let us know. The mail must go thru!

Francis Frost
439 Prospect Ave.
Manhattan Beach, California



TEK TALK



SPECIAL EDITION

Employees' Publication of Tektronix Inc.

May, 1957

IRE SHOW Throngs See New Instruments

Maintenance Group Grows Into New Unit

One of the concerns of the Market-Division of Tektronix, headed by Dal Dallas and Byron Broms, as well as any distributor of quality instruments is seeing that the customer who buys, is well satisfied. A great deal of their problem is solved by getting up-to-date information out to the customer-technicians, engineers and field representatives.

FIELD INFORMATION, a department under the direction and guidance of Will Marsh, disseminates this aid through his Promotion, Field Service, Manuals and Field Maintenance groups. The latter is a new unit made up of a group of people that have done much the same work previously but not under the same supervision.

Originally concerned with the repair of customer's instruments the functions of the group became involved with other things that were necessary but fell into a rather haphazard pattern. Modifications, modernization of older instruments, and recommendations for modifications from the field were all taken care of but it was decided to make a collective effort to do these things in a more unified way.

Now headed by Jack Henderson, the group is located in the northeast corner of the main building near the shipping department. The people contributing to this effort are Margie Miles, Walt Dedrick, Paul Hansen, Chet Harding, Robert E. Johnson, Pius Scheer, Pete Unger and several Field Engineering Trainees: Art Andersen, Udo Lindenmeyer and Lee Cooper.

One of the problems worked out by these people is the field modification information that is compiled and written for release by the Technical Release Group working under Dick Schmidt. Jack Henderson and his people actually do the modifications that have been recommended by engineering to increase the performance, stability, etc., of units all ready completed. Each step is then carefully followed through and a rough draft of the description to be sent to the field is jotted down.

The ideal modification kit with accompanying literature would include all exceptions, variations and tips on procedure that would cover all instruments of any particular type. This is of course difficult to do and still have a modification manual that doesn't read like a treatise.

It comes out something like this: "...the wiring changes are as follows:

1. Locate and remove the two white and gray wires tied to Terminal 3 on four-terminal ceramic strip shown in Fig. 1.
2. Remove jumper between terminals 1 & 2 etc."

It is logical that a Field Engineer and people familiar with work of a repair nature would best describe the way to go into a more detailed description for customers using older models.

The problem of controlling stock of obsolete parts, and also that of regulating what should be kept in the Customer Service stock is a grad-



"EXPOSITION CAPITOL OF THE WORLD"— people from the world over to attend its colorful Trade New York City— located at Columbia Circle, 59th St. and Public spectacles. & 8th Avenue. The fabulous 9 acre Coliseum attracts

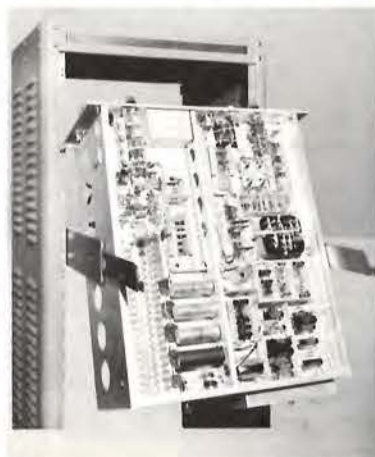
ually growing detail of Field Maintenance.

The Tek Instrument Pool is also under the jurisdiction of this phase of Field Information. Here a card file is kept on all Tektronix owned equipment that is currently available in useable condition. Thus if an urgent need for loan or replacement occurs, Field Maintenance can tell at a glance what service can be rendered.

TEST and FIELD MAINTENANCE work cooperatively as many of the modifications and their description require the approval and common assent of all concerned before a Field Information release is issued. In this regard of course the Engineering Department is also consulted and eventually the customers and field men are informed of the latest idea to make the oscilloscope an even better source of analytical information. New methods as well as new tools to do their work are being checked through and mailed to the man in the field. There he brings to the Tektronix customer the best that the people here can produce... "...and limited only by the current state of the art."

* * *
**MAYDAY
IS COMING!**

NEXT ON PRODUCTION SCHEDULE FOR TEK



Type RM15



Type 536



Type 575

Tek Engineers Trek To East For Event

New York City—Mar. 18-22 Along with 800 other manufacturers, service organizations and allied interests; Tektronix went to the IRE SHOW. This is the high point of the year for the electronics industry and the many engineers who have prepared new ideas for presentation at the show. Here the newest product, the latest modification, and that new "Idea" is announced to IRE members and other exhibitors.

Much of the planning for the coming years' production is based on the reactions recorded here by the Engineers and Field Engineers. Trends in thought, competitors products, demand indications from customers and the individual interest shown by key men in the engineering hierarchy all go toward a forming up of policy for planned production.

Actually the IRE show is the Institute of Radio Engineers National Convention. This year, it was held at the new COLISEUM, in New York City, just off Central Park.

This is not a "convention" in the sense of a gathering that certain fraternal organizations hold. On the higher plane of scientific endeavor it brings together men with thoughts of the future into a community of mutual interest.

Papers are presented on new ideas that are the heart and life of the electronics field. One of the lectures attended by some of the people from Portland dealt in the realm of medicine. This paper actually described the human optical system in terms of intelligence transmitted by electronic means. Photo receptors, nerve generators and memory interpreters are still rather vague things even when they call them "bunches of energy" to most of us. But there are such things and when ideas become realities it's the 'fustest with the mostest' that gleans the harvest in orders and sales. (Boys with the desire to learn more about such things need a good oscilloscope—you see.)

Attending from Portland from Tektronix were Howard Vollum, Dick Ropiequet, Earl Scott, Dal Dallas, Bill Polits, Dick Rhiger, and Rodgers Jenkins. Organization of the four day show was handled in the East by Jack Cassidy, the Eastern Division manager. (Jack was stricken with the mumps the second day of the show—worse than missing your own birthday party!) Howard Vollum spent many hours aiding the boys at the booth, answering the hundreds of questions and meeting the throngs of visitors to the show. Eastern Division Field Engineers manning the booth were: Jerry Kraxberger, Leo Wulff, Harry Mayo, Dick Phillips, Howard King, Harry Roseberry, Jack Cassidy, John West, Chris Christensen, Ray Lisiecki, Scotty Pyle, Warren Shepard, Marvin Crouch, Harry Allison, Joe Vitca and Scot McIndoe, George Edens, our Central Branch manager attended also.

Prior to the March 18th opening of the SHOW, all the field engineering people attending were informed of the important changes relative to development and production of the instruments that were being shown at this years booth. This was done

(Continued on page 3.)

Stars Of IRE Display In Prep.

Two of the new instruments shown at the booth in New York, the RM15, and the 536 are already in pre-production. Listed in the new catalog with a tentative initial shipment date of August 1st, 1957 these instruments are important in the marketing and manufacturing plans for the coming year.

The Type 536 has characteristics that make it adaptable to a wide range of laboratory applications. Its versatility is due to the use of plug-in preamplifiers for both horizontal and vertical deflection systems.

The Type RM15 is a mechanically arranged Type 515. The instrument mounts to the rack on slide-out tracks. It can be pulled forward, tilted and locked in any of seven positions for servicing convenience. It is designed to mount in a standard 19 inch rack.

In step with the high interest in the "Mighty-mite" transistor, a third instrument, the Type 575, was also shown. Capable of accurately plotting seven different transistor characteristics, the 575 traces out the 'inside story' of the transistor on the face of a cathode-ray tube. The tentative specification lists a starting date of October, 1957 for the 575.

More Than A Dream



The Tektronix Type 316 is a de-to-10 mc portable 3" oscilloscope with the desirable features of larger bench-type laboratory instruments. The latest Tektronix circuitry is employed in this compact instrument, including balanced vertical-signal delay. Wide vertical passband, high sensitivity and wide-range sweep circuitry of the Type 316 are exceptional for an oscilloscope of its small size and low weight. The tentative specifications indicate dimensions of 8½" wide, 12" high, 19" deep, and a weight of 38 lbs.

Tek Talk

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Keglars Korner — Don Pratt	

A Bit On Automation

Secondary only to the transistors in interest at the IRE this year was the area of computers and automation. Of the trend toward automation, Dr. Alfred N. Goldsmith-Senior Consultant, Electronic News; said this:

"Another basic trend in the electronics industry is the increase in the use of automation. Automation is a term with which to conjure these days. And certainly continuous and automatic manufacture on a large scale has an appealing sound. But some cautionary comments are nevertheless very much in order.

For successful automation, the type of product must be critically considered as to its suitability for automatic production. The stability of its commercial market is also controlling in determining whether to embark on the costly automation process with its inherent implication of steady and protracted production.

In relation to automation, it is hardly necessary to mention the modern printed, etched or plated circuits; the refined switching sub-assemblies; the adaption of the progressive-step production or assembly method to a wide variety of apparatus (as an extension of the earlier electron tube manufacturing machines); and a multitude of specialized feedback-controlled processes. For automation is rapidly extending into the manufacturing, warehousing inventorying, ordering, inspection, accounting, billing, and other processes of modern business.

Automation therefore implies more accurate and longer-term market production, and systematic attempts to achieve a reasonably controlled market stability through coordination of demand and sales promotion.

It also assures reeducating employees for new and more thoughtful tasks, and wisely bridging the interim period between the older and newer production processes.

Only thus can certain hardships be avoided, and onerous Governmental supervision become unnecessary.

Broadly, automation, despite growing pains, promises to be a most helpful agency in industrial and human progress."

Dave Spinks Training Dept. Head



Dave, after spending some time assisting the Personnel Department in interviewing has returned to the Manufacturing Division. Here as

head of the Training Department, Dave is carrying on the duties that has made him so familiar to all new people at Tektronix.

Production of quality instruments demands quality work at each joint and seal. Dave endeavors to give Tektronix the type of production from his trained people that will maintain the perfection required by Quality Control.

The ability to train people in the manufacture of electronic instruments requires an admixture of patience, encouragement, persistence, and perfection. To this Dave adds a perpetual smile, and he strives to please.

(Ed. Note: Dave has told us of his plans to make a trip to Europe this summer with his wife, Joyce. Sounds like what we all would like to do—sometime—but that's Dave—he's doing it Now!)



Judy Giesbers, foreign correspondence secretary in the Export Office at Portland, Dr. Max Muller, and Byron Broms, Assistant Manager of Marketing.

THIS SWISS-- PLANT VISITOR

After attending the IRE SHOW in New York, Dr. Muller journeyed to the West coast. While here he spent a day at the plant with Byron Broms, touring the buildings; and no doubt they had many a new thought to iron out on the things he saw and heard in the East.

Dr. Muller represents Tektronix as Chief Engineer for Omni Ray, our Overseas Distributor in Switzerland. He is a nephew of Dr. H. Pfenninger, manager of Omni Ray. A bachelor, Dr. Muller attended the Swiss Federal Institute of Technology where he received his degree in EE in '52. He served as a research assistant there for 3 years, doing work on medical electronics. Dr. Muller received his Doctors degree in 1955.

(Omni Ray restricts its activities to professional instruments in approximately six or seven major lines.)

Dr. Muller stated that his hobby is photography which will no doubt help him record the highlights of his trip. After leaving here he planned to go to San Francisco and then on to Mexico for a vacation before returning to Switzerland.

There are 20 people in the Omni Ray organization. Four of these are Sales Engineers. They have two service technicians, and of course Mr. Steinegger with whom our people correspond in regards to the purchase of Tektronix equipment.



Jack Henderson
Heads Up New Field Maint. Group

One of the earlier arrivals at Tektronix, Jack has been a 'first' in other areas too. His history at Tektronix dates back to January 18, 1949 when he began working in the Assembly Department.

Jack built his own 512 at home (which is no longer done) and this was the first time it had been done. He, as assistant to Bob Herren, became the first Group Leader in Test. This was about the first of November in 1951.

As business increased a watchful eye was needed to clear credit for our customers and Jack was transferred to the office as Credit Manager. Later on as orders and more orders came in it became very necessary to set up production schedules and a system for order processing. Defense orders, Specials, and so forth required special handling. Jack entered into this maze to give delay estimates, set up a card system (priority control), and give sequence to the manufacture of instruments according to customer orders.

When repair of customer's instruments became a major service problem of the Field Information Department, Will Marsh needed a man with experience in customer relations as well as in technical know-how to correlate repairs, modification kits, and recommendations from the field. Jack was selected to do the job.

Jack lives in West Slope with his wife, Barbara Lou, and a family of four children. These girls—Mary Lou, Nancy Lou, Debbie Lou and finally a boy—Rickie (you guessed it!) Lou.

An article describing more fully the functions of the department Jack has charge of will be found elsewhere in this issue.



FIELD MAINTENANCE GROUP

Back row: left to right, Trainees Art Anderson & Walt Dederick. Robert E. Johnson, Paul Hansen & Jack. Front: Lee Cooper, Margie Miles, and Chet Harding. Insets: Pete Unger left, and Pius Scheer right.

New Field Offices

Bringing the factory closer to the customer is the basic reason for the recent opening of additional field offices in the Kansas City and Long Island areas.

Field Engineer Chuck Bouffiou is now offering his technical skills to the Tektronix customers from a new office located at Mission, Kansas (a suburb of Kansas City). Field Secretary Lena Boyd is on hand to assist Chuck by getting parts and maintenance information out to our customers by telephone.

Another field engineering office is now located in Albertson, Long Island. Field Engineer Howard King, Maintenance Engineer Harry Roseberry, and Field Secretary Edith Norton have been placed there with the express purpose of helping the customer get the most from his Tektronix instrument. A complete repair facility is being set up here. A selected stock of replacement parts will also be maintained for the convenience of customers availing themselves of this field activity.

It is gratifying to know that the precision work demanded in the manufacture of these instruments is guarded by the attention of field personnel well schooled in repair and maintenance.

MAYDAY Is Coming

Blood Bank Deposits Possible Soon

Your Drive Chairman,

Don Pratt, (Finals) has reminded us that May 17 will be the day that the Bloodmobile will come to the Beaverton area. On this day it will be possible for Tektronix people to arrange time so that they may give a donation to the Tektronix Blood Bank.

This is an opportunity to add to the store of blood that may either save a life of one of our members or relieve the burden of financial stress when numerous transfusions may be necessary.

As in the past you may sign up with a Galloneer in your department. He will see that time is arranged for you at your convenience to give your donation on May 17.

SEE YOUR GALLONEER!

IRE SHOW (cont. from page one)

Your IRE SHOW Photograph Album For 1957

in private, on Thursday and Friday, March 14 and 15 at the Barbizon Plaza Hotel. Split into morning and afternoon sessions the forums were conducted by Engineers from the Portland plant. Dick Ropiequet discussed new developments which the Engineering Division is considering at the present time for instruments that may not be in production for over a year or more. At the same time suggestions and reaction to these thoughts from the field people present were noted. Current plans for the production of new instruments which were introduced at the show were voiced by Dick Rhiger. He also discussed with the engineers some of the field problems they were currently interested in. Earl Scott briefed those attending on the organizational aspects of the Test Group and problems related to their work. Bill Polits demonstrated the new Type 575 Transistor Curve Tracer and accompanied the actual demonstration with a description of the circuitry which has been used in the new instruments.

The Field Engineers from the area were assigned times for attendance at the booth. When they were not so engaged there were other IRE activities that attracted them.

A high interest in the new instruments shown was in evidence as the show closed and representatives left immediately with the show models to confer with interested engineers. Dick Phillips, Boston, and Dick Rhiger took the 551 (DUAL BEAM OSCILLOSCOPE) to the Lincoln Laboratory at MIT. (This is a government sponsored research laboratory.) While in Boston they also saw the people at General Radio. Bill Polits left with the 575 Transistor Curve Tracer to show its applications to the General Electric people at Syracuse, New York. He also met with the IBM Endicott organization there. Earl Scott called on the New York area offices before returning to Portland.

Dal Dallas took off on an extensive trip to the Field Offices in the Central and Southwestern areas. His Itinerary showed stops in Philadelphia, Cleveland, Toronto, Chicago, Minneapolis, Dayton, Kansas City, Dallas, Houston, Albuquerque, Phoenix, Los Angeles, and San Francisco. Besides the 316, 575 and 551 pictured in this issue of Tek Talk, many other instruments taken from Production were displayed. Tektronix was also represented at the IRE show by loaning instruments to the other exhibitors for presentation or demonstration of their own particular products. A total of fifteen other booths used Tektronix equipment in the show.

Here is where the promise is made, that Tektronix can design and build a quality instrument unsurpassed by any other wherever a Cathode-Ray Oscilloscope is required. At Tektronix, here in Portland and in Field Offices throughout the United States and the World the promise is kept, by you-you and you.

Philip Querido reported in the Electronic News that this year's IRE SHOW had attracted some 50,000 persons, including representatives from 35 foreign countries. 17,000 pieces of equipment, valued at more than \$10,000,000 were exhibited in 800 booths.

This biggest of all conventions was dominated largely by one of the smallest components—the transistor. This little midget with its hundreds of applications was considered king of the show, with high interest also being shown for recent advances in the fields of computers and automation.

Tektronix in step with the high interest in transistors had the Type 575 Transistor Curve Tracer to show the eager viewers that thronged through the 2½ miles of booths.



Entrance to the Show— RAIN HA!



Main Lobby of the Coliseum. Fantabulous isn't it?



"Dr." Polits making incision— those boys in Shipping really wrap a neat package don't they? —their secret love, things well packed and stacked I suppose!



John West, Bronxville. (and that lustrous lookin' layout!)



Leo Wulff, Baltimore — Harry Allison, Bronxville. Harry is evidently rather dubious about the whole thing.



Earl Scott, a visitor, Scotty (Syracuse), Harry Mayo, (Boston) —the \$64,000 question.



The Tektronix booth set up prior to the show.



Visitors talking to Scot McIndoe, center and Ray Lisiecki, Syracuse, far right. (Note the fine mural background accomplished by Lloyd Olson's air-brush. Not just professional, Tektronical!)



Not part of the Display— just visitors. Marion Rothfuss, Bronxville, Alice Henwood, Union. Note the partially exposed Chassis—nice huh? Probably a 316?



Caught with my Shutter down! Ray Lisiecki, Syracuse.



Dal Dallas and Bill Polits— on the fence about some interesting innovation in instruments no doubt.



A father and son banquet? Rodgers Jenkins, Portland and Dick Ropiequet.



Jack Cassidy, Eastern Branch Manager, a glimpse of Bill Polits, Dal Dallas (back to camera), and Marvin Crouch, Toronto.



Chris, (Philadelphia) showing a visitor some of the finer points. Take a good look gals and guys... for there's the works wide open to the scrutiny of all comers...and the quality will count... a job well done.



BIG JOKE! (three fly-boys and a little hangar maneuvers) Dal, Jack Cassidy, and Chris. Reminds me of one about the guy who got the mumps!

Personalities At Home And Abroad



ED KELLOGG
PERSONAL DATA

Born November 7, 1920, in Rosedale, Kansas.
Married, to Edythe.
They have two daughters; Sharon, age 15 and Kathlynn, almost 5.

Ed came to Tektronix in July of 1956. Since the time he arrived here Ed has made stop-overs in many departments in the plant to become familiar with the people and methods used in our operation. About the first of Feb. he arrived at the post he was specifically hired to fill. As Supervisor of the Catalog Order and Billing Departments, he is responsible for the handling of these necessary and important phases of Marketing.

With the growth of orders and the number processed there was a grow-

ing need for simplification and more organization in these areas and Ed was selected because of his aptitudes and experience in this type of position.

Ed got his B. S. at Eastern Oregon College of Education; he also attended the University of Oregon School of Law. While EOCE he was student psychometrist in charge of the laboratory there for two years. He also served as business manager and editor for the school publications. For three years, Ed was an inspector of parts for the North American Aviation Co. He also has held various other supervisory and management positions including an interesting year as specialist in electroencephalography for the U. S. Army at Ft. Lewis, Wn. Ed designed and supervised construction of this laboratory that is now in use at the Madigan General Hospital.

Ed says, "I liked Tektronix when I first came out. Like it even better now. A terrific organization where human values are placed first."

BILL BESSEY

Born in Washington D. C. Nov. 7, 1923; Bill at the age of 3 moved to Palm Beach, Florida (with family of course). Here he lived for one year or until a hurricane blew their house down. The next five years were spent in New York City after which they moved to Portland, Oregon.

As Bill says, "I attended Irvington and graduated from Grant High in 1941. Spent four years at University



of California at Berkeley, a year at Oregon State College— then into the service.

U. S. Army December, 1942 to April 1946. 89th Division, 354th Infantry. Gunner on a 60 mm mortar— (carried the d--- thing clear across Europe).

Started University of Oregon in the summer of '46— got my first A in college in Psychology so decided to be a Psychology Major. Got my B. S. in '49 and my M. S. in '50 specializing in Psychometric tests and counseling.

Went to work in September of 1950 for the Mental Health Assoc. of Oregon as Educational Director. This involved work with parent, civic, and professional groups in promoting mental health. Moved directly from this job to Portland State College in October of '52. Part-time instructor and counsellor for the V. A. vocational guidance which was located at Portland State. At this job until December 31, 1956. And now TEKTRONIX."

(Ed. Note: After completing the indoctrination tour to familiarize himself with the many jobs and situations at Tektronix, Bill completed the research on the Testing and Hiring program that had been started by Irv Smith and Bob Newberry. Presently engaged in Employment interviewing, we hope Bill can make a good contribution as a counselor in Training as well as in Hiring. He will probably get into the personal counseling field as well.



IRV SMITH

Born 1923 in Seattle.

Childhood—uneventful.

High School: Mount Hermon, Mass. Beaverton, Oregon.

Service: Bomber Pilot, 8th A. F.

Univ. of Washington 1945-50.

Pre-Med, Psychology & Education. B. S. in Psychology.

Taught at Junior High School in Mercer Island, Washington 1950-53.

Reynolds Metals Co. Industrial Sales Spokane, Washington 1953-54 and Portland, Ore. 1954-56. (During which period I became acquainted with Tektronix—and made the biggest sale of my career!)

After completing orientation, Irv & Bob Newberry started a research

study of Tek's employment & hiring program. Before they had time to finish this both Irv and Bob were pressed into employment interviewing due to the sudden acceleration of production hiring. Irv has recently taken over the job of Employment Manager as assistant to Don Kepler. (Bob Newberry has transferred to the Controller's office to do work as Statistician.)

(Ed. Note: According to the Purchasing Department Irv was one of the most genial supplier's representatives to ever darken their door. He was very well liked by the Reynolds Co. and his experiences there in human relations plus the favorable impressions he made on our people greatly enhanced Irv's background when he declared his interest in becoming a Tek.)

"MINNEAPOLITANS"



Don Clifford



Shirley Heeson

Well settled in their quarters where they opened the Minnesota branch office earlier this year, are these two, well known to the Portland Tek's. Don is well known in his territory, having travelled this area out of Chicago.

Shirley, it will be remembered, had the opportunity to continue her association with Tektronix in the new office after a leave from Portland to return to family and friends in her home town near Minneapolis. How fortunate can you be? And how nice for Tektronix!

REQUEST 3547

Tektronix, Inc.
P. O. Box 831
Portland 7, Oregon

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MAYDAY

MAYDAY

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COPENHAGEN CIRCUS

by Tage Olsen

Representing Tektronix In Denmark

In case you should one of these days come to Denmark and in order to damp the shock-effect of meeting us we enclose some photos taken a few weeks ago, and giving you an idea of what the various members of the circus looks like.

Mr. C. G. Buus
Directly concerned with Tektronix, a friendly chap, married, well known within the technical-scientific circle.

* * *

Peder Hyllestad, Secretary— does all the work nobody else cares to do. Age 40, single. (Ed. Note: Don't rush for passports girls, look what follows.)

Gerthe Pedersen, Bookkeeping— the tools in front of her is machinery which makes it nearly impossible for any of us to do some swindle.

* * *

Mrs. Inger Niebuhr, Supervisor of Bookkeeping. Nickname "Soester", a sister of all of us, married with a three year old son she is responsible for the special atmosphere of friendship ruling in our office.

Benthe Sorensen, takes care of Danish and English correspondence. Not married but engaged to a nice chap she has been with us 3½ years. Just the same whatever you ask Benthe to do her reply will always be 'Yes'.

* * *

Miss Nina Engelhardt, young, newcomer, friendly and always smiling she is taking care of Danish and German correspondence.

At last we have the writer and you will see how worn-out he looks. He is always saying: 'If we could avoid all the troubles with the customers and suppliers, life could be beautiful.'

Married, to Sonja and has three naughty boys Claus, Lars and Leif, ages 18, 14, and 12 and has a very noisy life. Despite all he is very pleased to run this little shop and extremely pleased to meet friends from the west-coast of America.

(Ed. Note: We are sure that everyone is interested in our contacts overseas and around the world. Thanks to Judy Giesbers for bringing in this material. Judy tells us Mr. Olsen may be over in May or June.)



TEK TALK



Monthly Edition

Employees' Publication of Tektronix Inc.

May, 1957

Personal Counsel Service Aailed Tek Employees

In line with Tektronix interest in better human relations, Tek people can now receive skilled counseling on personal problems of any nature. The program will be under the guidance of John Wallen. John is the clinical psychologist and director of research for the Boys and Girls Aid Society of Oregon. Since the first of this year he has been serving as consultant in human relations for Tektronix. John Wallen is not a part of any department, but operates as a private consultant on human relations problems for the benefit of everyone.

Assisting with the counseling program will be Bill Bessey. Bill has a fine background for this work from his graduate training in psychology at the University of Oregon and experience as counselor for the Veterans' Administration and former faculty member at Portland State College. Bill also worked for the Oregon Mental Health Association for a period. In addition to Bill Bessey there may be another counselor added later to help John, depending upon the workload of the group.

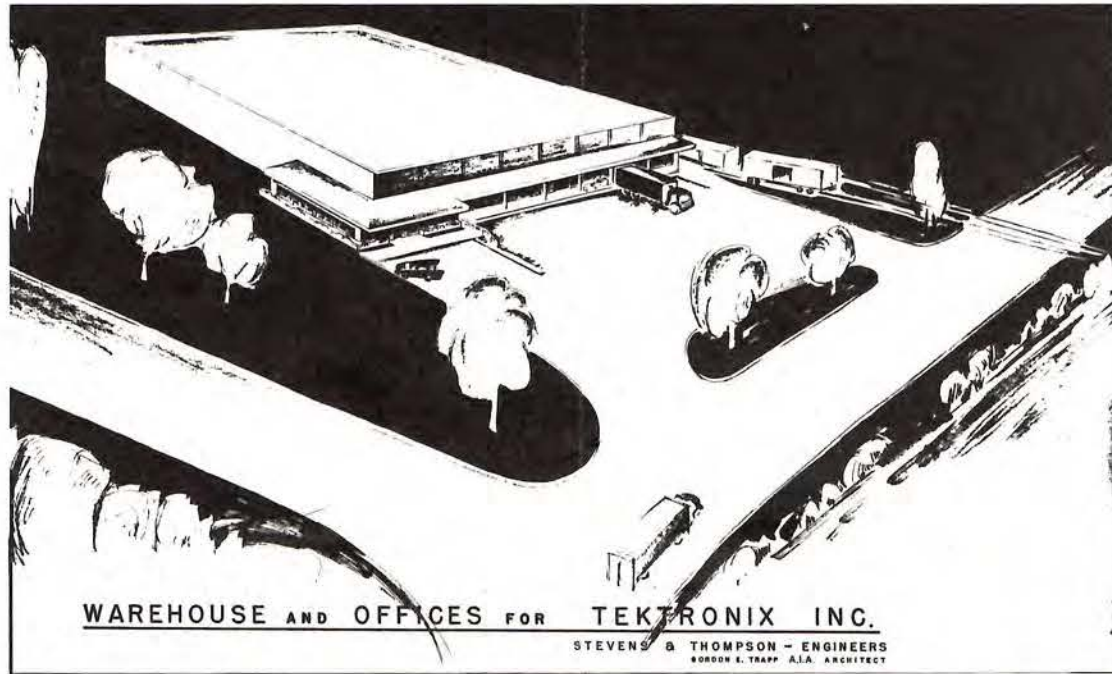
In beginning this program limited time will be available each week for people who wish to schedule appointments. Bill has been released by the Personnel Department to work with John Wallen in the counseling program for two afternoons each week. John will also be able to see some of the people on days when he visits the plant. To make an appointment any person in the plant merely needs to telephone the receptionist (Ext. 301) and ask for a counseling appointment.

Don Ellis Elected To Presidency Of Tax Institute

Don Ellis, our Controller, was elected President of the Tax Executives Institute in April.

The Institute is a national organization whose membership is limited to the tax administrators of industry and business. (Professional tax people, like C. P. As. and attorneys are not eligible for membership.) It's underlying theory is to establish a working relationship for freely exchanging pertinent information between the company representatives and various officials of governmental agencies. Don has put in a lot of good work for the local chapter, and has served previously in the offices of vice-president and secretary. Membership locally is comprised of 20 individuals representing lumbering, banking, public utilities, and other types of large businesses such as Jantzen, Oregon Saw Chain, Georgia-Pacific, and Tektronix.

The high interest in their work is apparent at the twice yearly meetings that draw about 50% of the membership to the convention sites. These meetings are three day workshops featuring panels made up of officials from the Federal Internal Revenue Department as well as State Tax Administrators and members of the Tax Executives Institute.



WAREHOUSE AND OFFICES FOR TEKTRONIX INC.
STEVENS & THOMPSON - ENGINEERS
RODOR L. TRAPP, A.I.A. ARCHITECT

Warehouse First Building In Park To Be Completed In Early July

Construction of our new warehouse is progressing rapidly in spite of weather handicaps that slowed initial stages of building in March and April.

Located south of the railroad and west of the Beaverton Airport, the structure has been designed to feature a parking area and landscaped approach on the south-east corner. A concrete block unit of 1000 sq. ft. attached to the warehouse on this corner will house office facilities for users of the building. The warehouse itself will be tilt-up concrete construction with glue laminated beams. Covering a storage area of 32,000 sq. ft., the building will be compared by early Tekes to the first building on the Sunset Hiway site which was planned for production purposes and was only 23,000 sq. ft. in area. Part of the total 32,000 sq. ft. will be sub-leased by Tektronix to Beaverton Transfer. Designed by Stevens and Thompson, a Portland engineering firm, the warehouse will be an attractive building that can be readily expanded to take care of increased needs for warehousing in the Beaverton area.

The storage space may be effectively increased by a last minute provision for future construction of a balcony over part or all of the warehouse. Two doors will be sixteen ft. wide so skids of aluminum sheet can be taken by lift truck from the freight car right into the building without shifting the load. The extra wide doors permit the twelve foot lengths of skids used to handle the aluminum to go through the doors lengthwise. In addition to metal stock, such supplies as laminations, CRT bottles, cardboard cartons and eventually ceramic materials which will lend themselves to warehousing will be stored there. Many of these materials are purchased in carload lots at the present time; with a railroad spur now available the advantages of rail-freight direct to door shipping will be gained. Tektronix has been renting about 19,000 sq. ft. of storage in Portland warehouses. Material now housed in these areas will be transferred to the new building as well as most of the central stock items now served from the Main building.

The warehouse of supplies at the new site will necessitate the relocation of the Stock department. They will make the move to the warehouse when it is ready for occupancy, about the middle of July, we hope. Regular delivery schedules between the warehouse and plant will be set up to take care of the steady demands for production material. The area known as the upstairs Quonset, Customer Service Stock and the new Receiving bay will be maintained for the in-plant storage of produced parts and items that will not lend themselves to warehousing. The overall long range plan will allow a much smoother control of material and supplies. Evacuation of the present stock area when it occurs will give the production people about 1800 sq. ft. more room in which to expand.

The land on which the warehouse is located remains the property of our Retirement Trust and will be leased by Tektronix, Inc. and others as more of the Industrial Park is developed.

These Medics Form Tek Industrial Staff

Already familiar to many Tekes who have had occasion to use the First Aid facilities, or who have been introduced casually are these three welcome medics. Arlene is our regu-

lar day-shift nurse now and Lucylle comes in on Swing. Dr. Bernard consults with them every Thurs. morning concerning special problems requiring his attention or advice.

You will find in their background, reassuring experience, and in their personalities—pleasant familiarity.



Lucylle McLain



Dr. Bernard



Arlene Willcuts

Lucylle McLain, R.N., is our nurse on Night Shift. Born and raised in Forest Grove, she graduated from Union High School there. She continued her education; graduating from Emanuel Hospital School of Nursing in 1940. Her post-graduate work in Obstetrics was completed at Emanuel, and from there she went to the Medical Clinic in Portland. In 1946, Lucylle decided being a 'career' girl was fine, but John and she felt home and family life held top priority. Mary Margaret arrived in 1948, John Warren in 1949 and Leanne in 1953. While the children were little, she served whenever and wherever her efforts were needed in County Health & Welfare projects. In April, 1954, she returned to Emanuel acting as head-nurse on the fourth floor of the hospital and as relief for the day-supervisors of the other wings. When she left there to join forces at Tek, she was head-nurse of the 4-North in orientation for the student nurses working the 11 to 7 night shift. Her hospital experience has covered just about everything as her floor received over-flow from other areas when beds were needed.

Church, P. T. A., O. S. N. A., plus family activities and projects keep her busy on her off hours. Her home is on an acre in Beaverton, which affords plenty of out-door activities.

Dr. Bernard was born in Long Beach California. He attended the University of California at Berkeley and received his B. S. in Chemistry there in 1945. He worked for awhile on the Manhattan Project (Cyclotron) and then went overseas as a Navy line officer. Returning to Washington D.C., he spent six months in the Office of Naval Research. It was here that he met Virginia, his wife, and she weathered the next few years with the Doctor while he attended Medical School at the University of Chicago. He received his M. D. there in June of 1950.

After internship in the University of Oregon Medical School and Clinics he went to the Marine Corps Headquarters in San Francisco for a period before going aboard the U. S.S. Dixie as Medical Officer. He served aboard this ship in the Korean War and spent some time in both Korea and Japan.

After Korean duty, Dr. Bernard went into practice with Dr. Alan Fischer in Gresham for a year before starting his own practice here in West Slope. He recently became a Ham. Call letters WN7IJU. An ardent fisherman, the Doctor is also a photography enthusiast. Besides his profession and hobbies he and Virginia have had time to start a nice family. Ricky, 8; David, 6; Mary, 4½; and Danielle 7 months.

Arlene Willcuts R. N., was born and raised on the Great Plains. She weathered the early thirties with her family in Kansas during the dust storms. Hard work was no stranger to Arlene and her education was gained through her own efforts. From Kansas she moved to Nampa, Idaho where she took her college and nursing training. From there she went to Nevada, taking a position with the Consolidated Copper Mines. In 1944 a night shift job with Firestone Rubber and Tire Company in Los Angeles became her second industrial position. Later, in the same area, she worked with an industrial physician. Coming finally to the Portland area she was employed by Libby McNeill & Libby (after a few months at the Portland Sanitarium) and now Tektronix.

Arlene has had post graduate work in Public Health at the U. of O. Medical School. She has been active in the American Nurses Association, is a past member of the Toastmistresses, and has taught Home Nursing.

Her father is with her now and she has a brother who is a missionary in Peru. Travel claims a high score on the interest side, with people a close second. She begrudges the speed at which time passes because there are so many wonderful things to do, learn, and see.

Tek Talk

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TWX--RiverGrove III.



Bob Seaberg, Field Maintenance Engineer; Ken Dellinger, Central Division Manager; Fred Mueller, part time student-technician; Paul Belles, Portland; Pat Maguire, Central Division Secretary; (Pat's marrying in May and plans to move to LA, new name Gandsey); Inge "Inky" Kremeyer.

Our Tek group in the Windy City entertained a Portland visitor recently when Paul Belles, Head of the Shipping Department, dropped in to the Chicago Office. Paul was in Chicago to attend the 26th Annual Exposition and Conference on Packaging the week of April 8. He arrived accompanied by wife Walmita, via a 5½ hour flight from Portland, and spent Monday thru Thursday at the Conference. Friday, Paul checked with the Chicago office about their shipping problems and also "got an idea of how the other half lives."



Kermit Fleck

Kerm Fleck recently transferred to the field from training in Field Maintenance, arrived in Chicago just five minutes before Paul was due to leave. Interesting observation on travel: Kerm drove back, leaving Portland just a day ahead of Paul. Paul had a full week of business under his belt and was checking out when Kerm arrived. Admittedly there was a blizzard to drive thru but you can't discount air travel as a boon to time saving.

Kerm was enroute to Bronxville for a briefing session before his ultimate location at the Baltimore Office.

TEST PROBES

Leonard Nelson, group supervisor in Test 5, doesn't believe in counting his roses before they bloom, but he does feel that with any luck he should have some beauties in time for this season's rose festival.

Nelson's roses are of prize-winning quality, and he has the hardware to prove it: A silver plate, (estimated value of \$60), for the sweepstakes runner-up award, won in 1953 for his rose "Madam Henri Guillot". Another silver plate in 1955 for the queen's rose on his "Sweet Sixteen". That year he won both first and second awards in this class; and his rose "Zenith" won him a silver medal from the American Rose Society for the best small flowering climber in the show.

Leonard lives at 12715 N. W. Barnes Road with his wife, Thelma, and an overgrown dog named "Penney" who likes to chase sticks. He has 60 or 70 choice rose bushes on his half acre. The only drawback is that the elevation is higher than most of Portland, and sometimes the roses trip him up by blooming too late for the rose festival in June. That is what happened in 1956. But with the mild winter and spring, Leonard is hoping for better luck this year.

In addition to raising prize-winning roses, the Nelsons have various other hobbies. They have recently become addicted to collecting antiques; and wife, Thelma, who appears a bit undersized for athletics, belongs to two bowling leagues where she makes a good account of herself.

Test Takes Scope to Sky For Check

by Robin H. and Roger H8.

Recently Tektronix supplied a very unique Type 531 to the National Bureau of Standards to be used in their high altitude laboratory in the Peruvian Andes. The elevation of this laboratory is 17,000 feet above sea level. Our Field Engineering offices were canvassed without success for any info they might have on high altitude operation. It was suspected that the high voltage circuits would break down at this altitude, so a 531 mock-up was put together using a standard high voltage supply, F & 1 assembly, CRT and shield. Batteries were stacked between the power and the sweep chassis to supply the voltages necessary.

With this wierd looking assembly we had all the high voltage circuits operating normally and yet the entire unit weighed less than thirty pounds.



The next step was to carry this mock-up to 17,000 feet and see if we could make it work. The 'instrument' was loaded into the back seat of the flying clubs Tri-Pacer and by using cushions and pillows the instrument was propped up and held in position with the safety belt. By kneeling in the front seat and facing backwards, voltage readings could be taken without too much trouble.

Next, meters were loaded aboard along with a good supply of corona dope and Krylon spray. A bottle of oxygen was also taken along, however there was only one mask available.

When we had reached an altitude of 12,000 feet the scope and the oxygen was turned on. At this point everything was working normally. By trading the oxygen mask back and forth, breathing wasn't too difficult. At 15,000 feet the corona was so bad the high voltage power supply failed, but up to this point no corona was found anywhere else in the circuit. We continued on up to 16,800 feet but could not get the supply fixed by using more corona dope or Krylon.

Back on the ground a high voltage

power supply was modified to reduce corona and arc over. This was tested by itself in a bell jar and it was found to operate successfully up to a simulated altitude of 25,000 feet.

Also because of such low air density the fan was modified by installing a DC fan motor.

The next trip we replaced the Tri-Pacer with a twin engine Beechcraft equipped with large enough inverter to supply us with enough power to operate the complete scope. In addition to the power supply we also checked temperature rise with thermo-couples at different points in the instrument. (See picture of Roger—



inset.) The fan speed was checked by a strobe light. Readings were started at 15,000 feet and recorded at every thousand foot level up to a little over 20,000 feet. This time there was no corona or arcing, the temperature rise was normal and the fan speed increased sufficiently to make up for the less dense air.

Because of this rather enjoyable assignment Tektronix can now supply a customer with a special high voltage supply and fan motor assembly that has been proven to work properly under actual high altitude conditions.

Veteran Tek Marks 10th Yr.



Howard Gault, the sage "Fiberous Engineer" of our Cabinet Shop, is now embarked upon earning his last extra day of vacation, thus entitling himself to all the rights and privileges of a veteran. On April 16th of this year Tek's first hired hand celebrated his tenth anniversary with tongue in cheek, patiently awaiting transportation to a new home at the site of our new factory building. Due to the nature of his present work, Howard's professional domicile has always been the least permanent of our permanent structures, since it is usually the first one built. When the move from our Hawthorne plant was started, Howard set up quarters at the rear of the present Assembly I room, staying there only until he crowded

himself out with his own good work. When the first quonset was erected (as a temporary warehouse) he fell heir to a small section of it, which he quickly transformed into a neat little cabinet shop.

Now, again, a 28 x 48 foot portable is being erected so that he can be strategically located to furnish the new factory. This is a great climb from the first cabinet shop, though, for it was comprised of about 40 square feet in one corner of our Hawthorne building.

Although it is now general practice to associate Howard with the Cabinet Shop, such was not always the case. His first job was to fabricate furnishings and finishings for the Hawthorne plant, but thereafter he gravitated from job to job as the need arose. Flexibility played a very important part in any employee's performance, then as well as now, so of course, Howard was put to the test.

After having completed scopes under the "fabrication to final" system of our early days, wherein each man did his own sheet metal cutting, punching, bending, etching, mechanical assembling, wiring, and final assembling, Howard began to settle down in the development of production methods for the shop department.

Sheet metal prefabrication posed a tough hurdle, as did heliarc welding, development of wrinkle finish, and the start of a records system for our shipping department. However, Howard's past experience as a Coast Guard Radioman, with ten years service, served him in good stead, leaving him equally adaptable as a painter, welder, wirer, wood butcher, etc.

Frankly, after looking this over, it's hard to believe that a person so wrapped up in his work could have a home, too, but he really does and a very nice one at that. Howard has two children, Leonard and Jackie, 15 and 7 respectively, both of whom attend school in Hillsboro; and a very nice wife, Mildred, who attends to all three of the previously mentioned.

Howard's hobbies, much like his work, have run the gamut, from one extreme to the other. From motorcycling to flying, from trout fishing to elk hunting, from model airplanes to sports cars, from golf to boating: Howard is an enthusiast of almost anything you can name. His most recent conquest was of the airways when he received his private pilot's license with the help of the Tek Flying Club.

Well, this could go on all day, so before press time catches me with my deadline down, Happy Anniversary, Howard!

Ed. Note: In order to get this sketch of the great Gault we enlisted the aid of our able reporter from Test, Emil Evans. Emil is a past protege of Howard's and knows of whom he speaks.

A Moment For Meditation

I WONDER

By Jeanette Mayer



I look upon the mountains
And I look upon the hills;
I look upon the forests
And I look upon the rills.
I look upon the grass
And I look upon the sod,
And I wonder how some people
Can believe there is no God.

Ed Note: The girls in Assembly II were impressed with the wonderful simplicity of this poem written by twelve year old Jeanette Mayer, sister of Marie Mayer, Assembly II.

In Your Corner--The Counselor



John Wallen

What Is Personal Counseling?

Personal problems are somewhat like colds. Everybody has them. Nobody dies from them, but they can make you pretty miserable. And if they aren't taken care of they can hang on and on, perhaps getting so serious that you condition becomes pretty critical. A personal counselor is a person who has had training in how to help other people talk over their personal discomforts and difficulties so that they can deal more effectively with them. Perhaps it is a disagreement between a husband and wife, problems with a child, concern over your mother-in-law, problems on your job, or maybe just too many worries. Talking them over with an understanding person can often help you to see the situation more clearly than you were able to before. Here are some questions you might ask about Tektronix Personal Counseling Service.

Isn't It Hard To Talk To A Counselor? Most people find it is easier because you can tell him things you might not want to say to some one very close to you. Besides, you know that he won't hold it against you no matter what you discuss. He won't think anything is "silly" or unimportant if it bothers or upsets you. His job is to understand what you are saying and to help you work out what you want to do about it. It's sometimes more helpful to "blow your top" to a counselor than to your supervisor or your wife.

Will Anything I Tell A Counselor Get Into My Personnel File?

Absolutely not! You conference is strictly confidential. The counselor will not reveal your conversation to anybody else unless you wish him to. That means that he will not go back to your supervisor or department head with things you have said.

Can A Counselor Arrange For A Transfer Or Leave Of Absence?

No. The counseling service is not part of the Personnel Department. Counselors have no authority to request anybody else in the plant to do anything. If, after talking your situation over with a counselor, you decide you would like to transfer (for example) you will go about it in the usual way. The counselor could only help you decide what you want to do.

Should I Tell My Supervisor That I'm Going For Personal Counseling?

Yes. Of course, you don't need to tell your supervisor about it if it is arranged after your normal working hours. However, if it is necessary to make the appointment during your working hours, you should tell your supervisor you want to arrange for personal counseling.

THE PANELCRAFT STORY

A first impression does make a difference; and the front panel of an oscilloscope carrying the Tektronix label is designed to make that impression a testimony of superior workmanship and quiet excellence. The layout of the panel, switch marking, calibrations and the rest are a story in itself. Many departments and people are involved in the final drafted layout sent to photography for preparation of a master print that will be reproduced thousands of times etched into the front panels of our instruments.

Once the approved print is made and an order for panels is received, the work is turned over to Panelcraft, a department of Tektronix, located in the Sellwood district of S. E. Portland. And that is where our story begins.



Gordon Bennett, forming the rounded corners on panels, and Douglas Dwight to the left operating the corner clipper which removes excess metal left by the punch.

In the early days of Tektronix, the panel work was furnished by two outside firms. One of these was located in Portland and the other in Chicago. Since quality, quantity, and arrival of panels could not be controlled too well under these conditions, it was decided to try our hand in the etched panel business. Started in the fall of 1952, with three people: Manager Larry Vollum, Chuck Saylor and Don Olson, Panelcraft was located in Sellwood because of the acids and chemicals used in the manufacturing process. Following Larry's death, Derrol Pemington supervised the plant operation and continued to keep telephone contact with them after the process was somewhat standardized.

Harry Rieschel, now Department Head, states that an average run per month in 1952 was 600 to 700 panels. In 1953 and '54 the working force was increased to eight people and the order rate went up to 1100-1200 panels per month. Today, we employ twenty people with an average run of between 5,000 to 6,000 per month.

In July last year Panelcraft started its first real expansion program. An additional 2,000 sq. ft. was added to the original 3,000 sq. ft. This gave them the much needed room for added personnel and equipment. At one time when all of the panels had square bends and corners, the entire process was done here. Then came the formed panel with rounded sides and corners. Since Panelcraft did not have the space or necessary press to do this, the Shop accomplished the job for them. At the present time they form and punch all of the panels here except the "515" and will take over that operation just as soon as the needed forming die is completed.



Bill Lawrence, Lucylle McLain R.N., Dr. Bernard and Harry Reisichel, discuss used in gold plating the connector strips for certain portions of the oscilloscope circuitry.

In addition to the front panel work, Panelcraft does a variety of other jobs. All panel bushings and the graticule covers are anodized here. Brass

probe shells or bodies, manufactured at the main plant, are coated with black oxide. Brass eyelets, terminal posts and connector strips are gold dipped. These are dipped in a gold cyanide solution.

Editors Note: On a brief tour of the Panelcraft department, Lois Rieschel filled me in on the manufacturing sequence of the panel. As I remember it, this is what happens out there in Sellwood.

Alcoa aluminum with a special mirror finish is shipped in from the only source of supply, a mill in the east. This metal is brought in on a hoist and comes in sheets 4 x 12 ft.

Richard Knight shears the sheet to panel size, punches three racking holes on the edge, and then gives them the first over-all etching. This chrome etch gives the panel its familiar satin finish. They are then ready for a photo-sensitive coating.

Dave Rogers pours the photo-engraving glue known as the "Resist" over the panel on a rotating table that uniformly coats the surface. The panels are then carefully racked ready for exposure to the positive print that fixes the glue or 'Resist' in all areas except where the printed detail occurs on the positive. Cliff Wilson does this. Then the unexposed coating is washed out leaving, in effect, a stencil for the etching process.

It is understandable of course that if any flaws in the 'resist' leave a speck of unprotected metal it too will be etched. For this reason an asphaltum 'spotting' is done which seals the flaws. This is done by Harold Du Brau and Richard Sether, who also give the panel a shellac coating on the rear surface to protect it from the acid bath.

Roger Donato takes care of the detail etching in a bath of ferric chloride. Following the bath each panel is doused in solvent to remove the asphalt. The formed panels are then



Roger Donato to the left handles the 'iron etch' and Dick Knight on the right chrome etches the panels. Note the hoist for sulfuric acid.

formed before the 'resist' and shellac is removed with Tri-sodium and they are taken by Bill Lawrence and Herb Rustrum to be anodized. (The square bend panels are carried on thru this process to be punched later.)

Now that the panel is ready for the finishing touches, the Paint group (currently Al Ramberg, Warren Leminx, Dale Thornton, Phil Hainey and Richard Jamerson), take over and roll on paint of the desired colors according to the code for the particular panel. The excess paint is floated and scraped away with hot water and a plastic scraper. Joe Jasper who is working with the painted panels does his finishing work at this point also.

The square panels are inspected at this point and sent on to be punched. Gordon Bennett, Arthur Hardmen, and Doug Dwight do the punching and return the finished panel for final inspection by Richard Senz and Lois Rieschel who also prepare the finished panels for shipment to Stock and Production.

Supervision of the Panelcraft process is Tony Klobertanz's responsibility. Tony is Harry Rieschel's right hand man while Harry makes frequent trips to the main plant to correlate production with other departments.

The day shift at Panelcraft is the same as at the Plant. The only 'swing' man they have is John Weigel, their Janitor.

SCIMAREC

On April 25 a shower for Jack Gath's expected baby was participated in by all.

Ing Stromberg showed off his new projector. We all enjoyed seeing his many slides of fine color pictures, and meeting Rosalie (his very best girl). Who, incidentally, is one of the outstanding graduating high school seniors this year in Portland.

Everyone missed Charlotte Peterson's helpful bustling around when she had to take time off to have a tonsillectomy.

Leola Coolidge took a week's vacation to get her spring gardening done, only if turned out to be sick leave.

Monttie Wallis and Jan Hoodenpyle heroically lent a helping hand at a tragic fire near their home which claimed the lives of two small girls.

Grace Hitchcock left us to join Cables. And Leona Costa and Lois Grimes deserted swing shift to come on days.

CABLEGRAMS

We had a very interesting visitor in our department, Margaret Johnson, a missionary, just home from Korea (mother of Bob Johnson in CRT).

Margaret told us many things about the life of the Koreans. We of course wanted her to look up our Korean orphan, Bok Mi, when she returned there. She feels she can find the child and tell her we do think of her.

Margaret told us of an orphanage in Seoul that was started by an American. They have 44 babies and no washer. Imagine all those white squares by hand! But washer or no, they take any abandoned child and care for him.

STOCK-AID NEWS

The Stockroom personnel held a surprise party for Marlys Gosser on Friday the 3rd of May.

Marlys, our Kardex recorder on the day shift, had just moved into Modifications where she will be doing their clerical work. We wish her every success in her new job and assure the Mod group that they are very lucky in their choice.

As a token of the many happy hours of her company we had enjoyed, she was presented with a myrtle-wood trinket bowl.

In a bantering mood, one of our members broke into verse thus:

Oh Marlys, you've gone, what a dismal thought,
Think of us in our plight,
But now we can look at the Kardex
And know it's sure to be right.
When pastries were offered at coffee break,
We remember how you would grab,
And scream for someone to turn up the sound,
When they were playing a record by Tab.
We will always remember your kindly ways,
As your picture we see on the wall.
You'd run your fingers through our hair,
And call us your party doll.
Marlys, come back and see us,
A visit from you would be great,
Just stand at the stock-room window,
Ring the Bell and Wait!

SHOP

Saturday, April 27th, opening day for Oregon trout fishing saw many a shop lad—and lass—headed for his or her favorite fishing haunt.

No doubt numerous shop worker's dinner tables were graced with grilled trout that weekend, if luck was in proportion to eager anticipation and optimistic enthusiasm.

At least we hope there were not too many empty creels on the homeward trip. But for those whose luck was not up to par we offer the following balm:

Not a complete loss, an empty hook—Not a day wastefully spent,
If Nature's beauty of lake and brook Can spawn the thought, 'I'm glad I went.'

SHOT FROM GUNS

The care with which each component of the Tektronix Oscilloscope is coupled into the intricate circuits and the resultant perfection that we all strive to obtain faces a bottle-neck! Fortunately we have trained people to take care of this problem—the operators in the gunassembly section of CRT.

Gun making is done in four steps; namely, gun assembly, gun wiring, gun sealing, and final inspection and pinning.

The gun assembly consists of the various elements of an electron gun being mounted in a jig in a very exacting position which is held to a tolerance of .001 of an inch. Then the jig-gun is forced into molten pyrex glass rods which have been heated by an intense oxygen and propane



Day Shift

Front row, (l. to r.) Faith Lopresti, Virginia Peterson, Ann Sullivan. Second row, Anne Bloedon, Anastasia Haas, Laine Pettai, Marian Bozich, Florence Walker, and Minnie Coughlin. Third row, Bela Kirchner, Jack Neff, Carol Weik, Erna Normet, Margaret Earlywine, Harriet Van Valkenburgh. (Margaret is a recent addition to the group.)



Swin gShift

From left to right, Mary Lou McCleary, Rose Duane, Karen Hayden, another member, Libbie Getgen, was not present due to illness.

flame. This production method insures Tek of a consistently accurate gun for its CRT.

The wiring phase of the gun production consists of two basic operations. The first is spot welding nichrome wire which is used to connect the assembled elements to the gun. The second operation is spot welding various shields to certain elements to minimize foreign external interference. No soldering of any kind is used in this very exacting work. There is no sub-assembly in this step as each girl is responsible for wiring a complete gun.

After wiring, the gun is ready to be sealed into a two inch special lead glass tubing. Sealing is done in a special horizontal glass-sealing lathe. A glass stem which supports the gun is inserted at this time. All glass area is annealed to remove strains in the glass.

The department is proud of its latest acquisition, a vertical sealer, which will step up production greatly. We will try to give you a special report on this when it goes into action.

After the sealed gun is cooled, excess glass is cut off at a predetermined point in the gun. Filaments are checked; and the gun is ready for Final inspection.

Checking of X-plates, parallelism as to width and spacing, other miscellaneous checks, loose connections and then alignment of the gun inside the tube. The last step consists of spot welding and mounting the deflection plate leads to the gun.

The precision built gun demands the accuracy that individual thoroughness alone can achieve. It does not lend itself to assembly line production.

The ever important jig and other specialized equipment were developed in the Model Shop. The CRT maintenance men are responsible for the very fine spot welders that are used.

The group is trained not only for their specific duty but also many of them are capable of filling in at other stations. They are ably lead by congenial Jack Neff, a six year veteran of Tektronix.

HAM CLUB NEWS Welcome To Tek

New Arrivals

On April 6, 1957 the last club meeting was held. Jim Strickland gave the first half of his very interesting lecture on antenna impedance matching. The second and final part of his lecture was given on May 4th.

The club name has been changed to Tektronix Employees Radio Amateur Club.

One of the major activities at the present time is the preparation for the National Field Day to be held on June 22nd and 23rd. At this time all of the country's radio clubs head for the hills to operate their equipment from emergency power for the weekend. Our club has a 5kw gasoline driven generator to use for power. We are in the process of building a trailer on which to permanently mount the generator so it will be readily available for Field Day, or in the event of a disaster the club will be able to maintain communications from the scene of activities. Also, many of the club members have mobile equipment in their cars which can be used for on the spot reporting and the direction of emergency work.

Site for our Field Day operations has not yet been selected but a number of members are looking over a number of suggested locations. It is desirable to find a spot with good elevation and freedom from obstructions which would affect the propagation of radio waves. In the Field Day competition all competing organizations try to work as many situations as possible to earn the greatest number of points.

Accounting	Day	4-16
Beverly Beumeler	Day	4-29
Stock		
Beatrice M. Kock	Day	4-22
Test		
George B. Smith, Jr.	Day	3-27
Shop		
Howard Buzzee	Day	3-25
David Deibele	Day	3-25
Lloyd Smith	Day	4-1
Richard Braniff	Day	4-1
Frank Richards	Day	4-8
Kenneth Catto	Day	3-27
CRT		
Robert Chilson	Swing	4-22
Bessie I. Tupper	Day	3-18
Ed L. Cornilles	Day	3-19
Mildred Richters	Day	4-8
Production Staff		
Joseph (Jay) Chiodo	Day	3-18
Field Engineering		
G. Duncan Doane		4-1
William Ewin (Train.)		4-5
Janice Martin		4-8
Mae E. Jorgensen "Betty"		4-8
Cables		
Joyce Fisher	Day	4-8
Irmgard Jockers	Swing	3-25
Production Tooling		
Herbert Sackett	Swing	4-15
Shipping		
Hoy L. Godfrey	Day	4-15
Materials Control		
Kevin Van Hoomissen	Day	3-31
Building Services		
Karl Narits	Gyd.	4-22
Herman Ziegenbein	Gyd.	4-1
Personnel		
Lucylle McLain (R.N.)	Swg.	4-16
Arlene Willcuts (R.N.)	Day	4-15
Field Information		
Margery Bardell	Day	4-15

PLASTICATS

Helen Reed returned from a vacation trip to Arizona and New Mexico. She played tag with a tarantula but didn't have the heart to kill it.

Vern Bartlett was given a farewell party before moving to the Model Shop, his new location. Good luck, Vern.

The flu bug has been working overtime in our department but we think it's whipped now.

Birthdays were celebrated by Duncan Bergeron, Ella Beaver, and Val Arczynski, at a party Friday, all a year younger.

Our new quarters have us all agog. Just imagine, room to move around! The additional exercise will come in handy for all the girls going to the health studios.

CAPACITOR CAPERS

Mike Brand was welcomed to the department as an assistant in resistors and Tek-made pots.

Louise Jones has been off for several weeks with bursitis.

Margaret Pearson went to California unexpectedly to attend a funeral.

Lorraine McNiel's trip to sunny California was more pleasant, being a vacation jaunt. She returned with a new purse that looked like it had been down Nevada way. (Loaded?) She's been eating sparrow eggs to lose weight.

The bowling teams, Morley's 76 and Parker's Furniture went to Spokane for the Northwest Bowling Tournament, April 26th. Our good wishes went with them, for what good they might do.

We're proud of Marcelle Buel for her bowling in the Tek Tournament. 1st in singles and second with Kay Bartmess in doubles. Her first year bowling and her first trophy.

Have you seen the Capacitors' new Zoo Department? Not really caged, but a new dustproof room with a hospital like atmosphere. Glamorous white gowns, and practically a sterilization of instruments with nary a sneeze allowed or pots will go to pot. Marcelle Buel moved in with the gals from capacitors.

The loss of Jo Howery was felt keenly when she left to go with her husband to Bremerton. They are opening a cleaning establishment there. (She has written to say we're missed too.) Dorothy Luker is taking her place in capacitor winding. Oscar Olson was missed during his illness, we're glad he's back.

CRTeezers

Dorothy Dunstan was honored at a surprise party shower on Friday night, April 5th, at the home of Virginia Olson. Virginia served a lovely buffet dinner to all the gals who work in small parts CRT. They had a very enjoyable evening.

QC



Hallie Todd said good bye to her pals around the plant and had the customary farewell party with the QC group. Her only regret was that 'boss' Kenny King was not on hand to help her cut the cake. Hallie first came to Tek February 8, 1954. Starting in Field Maintenance and working the switchboard, she then moved to Production in August of '55. Kit Prep kept her busy until October of 1956 when she moved into Quality Control. Hallie is going to be married to Roy F. McCurdy in July. They plan to reside in Forest Grove. "Tektronix was such a wonderful place to work", was Hallie's parting remark.



Kenny King has created a lot of interest in the Elkins-Clark trial. He is in the lock-up with the rest of the trial jury, and his department in the meantime is keeping his memory alive with a scrapbook of news clippings and TV appearances concerning the jury and Kenny.

At the risk of his own freedom, Ed Egan managed to get the following shot of Ken in his "Cell". (Actually the jury is housed at the Campbell Court Hotel, in much more comfortable quarters we hope.)

SCREW CREW NEWS

Virginia Comstock is convalescing after an operation and short stay in the hospital. Good health in the future, Virginia.

Mechanical Assembly takes this opportunity to welcome Jack Hughes, new Group Leader, to the department. We wish him loads of luck.



NIGHT BEAT

Mechanical Assem. Swg. Shift

Albert Puschart arrived in the United States from Germany on Christmas Day. One month later, speaking very little English, he came to Tek. Now, a very few months later, he speaks nothing but English. Our welcome and congratulations to Albert. We're sure that Albert is a little more thrifty than we are, because he has told us that he has it all figured out when he will have a million dollars. He said "I'll be an old man but I'll have it." More power to you Albert, how about letting us in on your secret of how to save your money?

Editors Note: Albert left for service in the Armed Forces on May 15.

Barbara Krise, who also joined us in January has just returned from spending three years in Panama. Her husband, Robert, was stationed there with the Army. Barbara found it a little hard to return to America, because in Panama she had a maid to do her housework for her. This gave Barbara more time to spend with her two children, Paul and Daphne. Paul was born in Panama and Barbara says he is a real Panamanian because he was born in the Panamanian section of the hospital. It seems that the American section was filled at the time.

Velma Brooks, is also new in this department. Velma lives on a farm near Oswego with her husband Glen and two children. She enjoys horseback riding as a sport in the summertime. During the winter she relaxes at her sewing machine.

Working swing, the only time we really get to enjoy a meal is on the weekends. Therefore we enjoy potluck at work occasionally. Last week we had one and found out that we have several very good cooks in the department. If we continue these potlucks and if Dora Jensen continues to bring that delicious fudge of hers we will have to expand the department to make room for our expanding waistlines.

Our get well wishes to Doreen Carlson who is recovering from surgery in Emanuel Hospital. Hurry back Doreen we miss you.

Assembly Shifts

In connection with the recent changes of supervisory people from one area to another in Assem. some of the groups took note of the relocation with festive welcoming and 'going away' parties.

George Scott's girls in Assembly 2 did things up in fine shape with a banner, oversize farewell card, and all the trimmings.

According to the April 4 list the Assembly people are now working with the supervision of Unit Manager Wendell Ferland and Group Supervisors, Dick Easton and George Scott in Finals; Unit Manager Gerd Schwerin and Group Supervisors Phil Mallery-Kit Prep, Ruby Miller-Cables, Bob Kaufman-Accessories; Unit Manager Harold Edmundson, Group Supervisors Jack Hughes, and Stan Saety in Mechanical Assembly; Unit Manager Dick Montag, new Assistant Unit Managers Tom Sly and Norman Olsoe, Group Supervisors Allen Hayes, Marshall Jackson, Bill Hardin, Leonard Mason, Allen Buckley, Wayne James, James Kurilo, Werner Rasmussen and Bob Jackson, in Unit Wiring.



Goodfellow Birthday Celebrated-He's-39?

On April 4 the Ceramics Engineers and swing shift girls gave a surprise birthday party for Ted Goodfellow, Ceramics Production Engineer, on the occasion of his 'thirty-ninth' anniversary. They presented him with a fishing rod to catch the fish that got away. Now that Ted has acquired that famous age of continuing youth we wonder if his yen to travel will return?— or is that trailer on the cake just a gypsy's dream?



Tale Spinners



Prineville Buckaroo Breakfast Fly In

Tek flyers participated in a statewide fly-in breakfast at Prineville, Oregon Sunday, April 28th. Planes attending the annual event totalled around 100 and each plane brought up to four passengers.

Jack Murdock flew his four-place Bonanza while the Fly Club was represented in total, flying all three of its planes to the early morning activity. First takeoff Sunday was at 6:45 when John Kobbe and Cliff Moulton left in the J-3 via Mt. Hood to Prineville. Robin and Daisy Hoag flew the newly purchased Luscombe 8-F up the scenic Columbia River to The Dalles and then winged south over the Deschutes River. High-altitude straight-line courses led Roger H8, Jack Murdock and their guests to the 'all you can eat for \$1' outing. With

Roger and his wife Phyllis were Wayne and Betty De Vaul. Jack sped wives Geneva Kobbe and Mari Le Moulton to meet their early-rising husbands.

Fly-ins are one of the major summer attractions for fly club members and their whole families. Prineville's Buckaroo Breakfast with colorful cowboys cooking and serving will always be an attraction to the air-minded.

The Old So'Wester



Here's Ed and the Ercoupe, at Monterey.

Ed Bauder wrote in a letter to Cliff Moulton recently that he's finding many customers are fly-boys and many of them have offered to meet him at the nearest airport when he makes a call. Some of them he discovers have their own airstrips as well, which makes selling a real pleasure for a flight enthusiast.

Ed likes his little Ercoupe— landings are fun, and as he says, "No more tail-scratching for me!"

He's done very little business flying as yet, but with better weather ahead he's sure the Ercoupe will be taking him places.

Golf Clubs

The Forest Hills Game on April 23rd was played on a cool, rainy, and windy day. Nevertheless, the crowd was good; and the buffet dinner that followed at Hillsboro Supper Club was wonderful. Door prizes were one of the attractions; and John Mathews was the proud recipient of a nice set of kiddy-clubs amidst much laughter after a big build up. Kevin Van Hoomissen came out with a 39—it's rumored he won't be asked next time! (That's O.K. Kevin we still love you!) Don't forget to turn in all your score cards to Jim Peabody or Hal to establish your handicap for the tournament play in August. Very Important— The five best 9 hole games out of scores will be used. Everyone, GET IN ON THE FUN!

Keglers Korner

The Tektronix bowling season came to a triumphant close on Monday, April 22, with the awarding of the trophies and cash prizes for the Second Annual Tektronix Bowling Sweepstakes Tournament. Participating were 42 persons in Mixed Doubles, 21 gals in Womens Doubles, 42 women in Womens Singles, 29 men in Men's Doubles, and 58 men in Men's Singles for a total of 192.



Men's Singles—Will Johnson, 681—Bowled 681—High game, Will Johnson 244.



Women's Doubles—Wilson-Lohse—Bowled 1179—High Game, Irene Wilson 222.

Women's Singles—Marcelle Buel—Bowled 627—High game, Molly Veale 194.



Men's Doubles—Sorenson-Reeder—Bowled 1373—High game, Willard Johnson 224.



Mixed Doubles—Ash & Esther Ashenbrenner—Bowled 1202—High for Men: Don Sipe, 222. For Women: Janet Hoodenpyl with 268.

Request 3547. While on vacation you are your own Life-guard. BULK RATE PAID U.S. POSTAGE Portland, Oregon Permit No. 740



Tektronix Employee's Retirement Trust Industrial Park Tract. Looking toward the east. Jenkins road on the left and railroad near the southern boundary, note the airport in far background.

Production Buildings Shape Up In Industrial Park Area

Groundwork necessary to properly drain surface water was one of the concerns of Bill McCord's crew as they moved into the field south of Jenkins Road to begin construction of new production buildings for Tektronix. This preliminary work and the storm sewers have both been completed. Because of the flatness of the land and the fact that footings extend below the water-table, drainage has been a constant problem. With the storm sewers in, the excess water can be pumped away.

Footings have been poured without forms for the foundations of five units of the modular type building, so as not to disturb the dirt. Foundations were started as early as May 20th and columns for roof support went up soon afterward. The roof beams will be erected and in place before the end of June. This steady progress has required a crew of 70 people on construction and maintenance as well as twenty-five additional people involved in sub-contracts for the building.

Structural steel joists have been stored in a downtown warehouse

ready for the builders when the structure reaches the point that this material is required. Eight carloads of the steel are already on hand and it is expected that two more will be required. Macomber Joist Co. supplied the steel through their local representative, Portland Wire and Iron Works.

An old dock in the St. Johns area of Portland was purchased for salvage of the 4 x 12 timbers that are being used as a temporary corduroy road for trucks around the construction area. A 'cat' and loader are used within the area for moving material across the soft earth.

Water for the new buildings will be supplied from the Wolf Creek Water District by an 8" main when the facilities are completed. A 12" main will be laid across the east end of the Retirement Trust Industrial Park to serve the whole area and the 8" main will be coupled to this when it has been connected. At the present time a temporary 1½" plastic pipe carries water into the construction area from Jenkins Road.

Internal planning of the new production areas is now under study by people directly concerned with the use of the new building. Shipping, Test, and Assembly will be located in the three units of the north side of the building, with the shop and additional area of assembly located in the two units behind.

The additional 108,000 sq. ft. of production area will augment the present plant and may represent the first steps in an eventual development that will house all of the many departments of Tektronix under one roof. The extensions onto existing buildings at the main plant recently are a necessity that couldn't be postponed until a later time.



The site of the new Production Building. Line indicates area of tract that building will occupy.

Recreation Committee Cast



From left to right: Bill Barnes, Evelyn Meyer, Paula Klahn, Betty Whiting, Bob Guthrie, Leanne Garfield, and Clair Kidd.

At the April 16th meeting of the Personnel Committee the group representatives decided that a recreation committee should be formed to correlate the company's participation with the various interested groups. Bowling, golf, flying and other clubs are encouraged to be active with as many members as care to join. As a company, Tektronix has not encouraged an organized recreation program but rather has encouraged individuals to form interest groups and offered support to their plans when it was requested.

The recreation committee was elected from a list of volunteers by the group representatives at the meeting of April 30th.

The first project at hand for their consideration, the annual picnic, was started with a plant-wide ballot that named MERWIN DAM as the picnic site for Saturday August 17th. Barbecued Beef and Ham will be the menu to attract the expected 5500 employees, families and guests. Other individuals will be named by the Recreation Committee to serve on committees for the picnic.

Interested individuals should let the Recreation Committee know if they would like to help with the plans for the picnic.

Youth's Letter Prompts Tour

A seventh grade boy and his classmates interest in Tektronix brought this letter to the attention of our San Francisco office.

The envelope was marked 1436 El Camino Real, Menlo Park, California (no firm name given).

Dear Sir,

My names Donald Pilger and I'm thirteen and I'm in the seventh grade. Our rooms studying about Tektronix and I would like to know if you could send me and samples of what you make. Or if you can't please send me some panflats on Tektronix.

Your friend,

Don Pilger

Margaret Johnson, San Francisco, sent the letter along to Dal and Byron and encouraged some help for the boy. Recognizing the latent form of a budding scientist with normal boyhood difficulties in spelling, the Field Information Department took over and set up a tour of the Plant for Donny and some of his friends. They also received some 'panflits' (spelling by M. J.) before they left the plant.

Reject CRT's Help Serve Vet Program

Floyd H. Slinger, executive assistant of the Physical Medicine and Rehabilitation Service at the Veteran's Hospital, wrote Bill Webber recently to thank Teks for their interest in assisting the handicapped and disabled veteran.

Ella Hansen, acting as secretary to Derrol Pennington, was active in obtaining a generous supply of reject crt tubes for use by the Manual Arts Therapy Clinics at the hospital.

The tubes serve as an excellent modality for the rehabilitation program.

Quoting from the letter, "Your thoughtfulness of our hospitalized veteran is very gratifying and your participation in the greatest and most valuable of our possessions, the conservation of human resources is appreciated."

Ed. Note: When an imperfect product can be so effectively used the unavoidable waste of manufacturing is somewhat redeemed.

Safety Meet Relayed

'Bunch' (Melvel) Dixon from Shop attended the May 16-17 Conference at the Multnomah Hotel in Portland called by Governor Holmes for the promotion of safety in industry.

A display of safety equipment believed to be the largest ever assembled in the Northwest was shown on the hotel's mezzanine. 'Bunch' brought back literature and information on items of interest to the Safety Committee at Tektronix.

'Safety Leadership' was the theme of the two day session. The 7th annual conference was sponsored by the State Industrial Accident Commission.

Tektronix safety factors are watched and cared for by five people in different sections of the plant. Where ever a safety hazard is noted it is reported to one of these people who then makes arrangements for a remedy or safeguard to eliminate or lessen the danger. Derrol Pennington, CRT; Jim Morrow, Model Shop and Production Engineering; John Taylor, Assembly; Earl Scott, Test; and Erwin Ashenbrenner, Shop are serving in this capacity at the present time.

Testimonial To A Tek



At the request of Manager of Research, Dr. W. T. Sackett, Jr., Virgil Waldron of Kuhlman Electric Company—Bay City, Michigan, wrote a letter of appreciation for the manner in which Keith Williams of the Cleveland Office assisted them in understanding the operation of a recently purchased Type 535.

"He very capably answered all questions and was pleasant and courteous. He is a credit to your organization and we look forward to his next call."

Keith offered helpful suggestions by telephone and later spent a day giving them a thorough explanation of oscilloscope operation in general. This quality presentation in the field of a quality instrument manufactured here builds a continuing testimony of integrity that is synonymous with Tektronix.

Tek Talk

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Departments are asked to notify the Editor if Reporters named are not currntly correct.

Howard And His Family



Howard holding Larry, 18 months; Charlie, he'll be five in August; Kit and three year old Stevie.

A HINT TO FATHERS ALL YEAR AROUND

What shall you give to one small boy?
 A glamorous game, a tinsel toy,
 A barlow knife, a puzzle pack,
 A train that runs on curving track?
 A picture book, a real live pet...
 No, there's plenty of time for such things yet.
 Give him a day for his own—
 Just one small boy and his dad alone.
 A walk in the woods, a romp in the park,
 Give the gift that only you can—
 The companionship of his Old Man.
 Games are out grown, and toys decay—
 But he'll never forget if you....
 "Give him a day."

Anon...

"If we want better people to make a better world, then we have to begin where people are made — in the family."



Located at 1675 S. W. Marlow Ave., the Credit Union is under the full time, able supervision of Manager Dick Manning. He has been in the field of credit for over twenty-five years. Assisting him are the two girls, Ruth Rolph and Sylvia Bean (in foreground).

Saving Any Money?

Whenever a group of friends get together one of the questions thrown out for chit-chat along with the usual on your health, the weather, and the current problem of dandelions is the one: 'Are you saving any money?' The almost immediate reply is "... with the high cost of living... are you nuts?"

What we generally accept as the reason for our dilemma; the high cost of living, is in reality a product of our inability to save money. Putting ourselves out on a limb perhaps we would like to express the opinion that if a concerted effort was made by everyone earning a salary to not spend for a period of two to three months except for the essentials (and reduce these to basic needs) we could arrive at our true cost of living. Add to this amount a consolidated debt payment necessary to pay off "fool hardy" purchases of the past and then decide how much right now that we could start saving.

Once this saving program has started we can add to it any "wind-falls", bonuses, gifts, tax refunds etc. we may receive. We would make no further capital purchases until we were saving all we possibly could. Any purchases from this point on should be screened carefully. Purchases of 'gimmicks', poor quality merchandise, services we cannot afford, and luxury items should be halted while we survey our plan to save.

Most of us are salaried people and are pretty much on a consuming basis. We buy food, clothing, shelter and transportation for our use,—not for resale profit. Unless some of what we earn is turned into investment channels or savings we end our productive life with a big zero and an undetermined number of retired years to wonder how "to make ends meet." Social security, retirement plans and pensions may help but they are certainly not the answer to becoming financially independent.

It is now, in the era of high productivity and high employment, that we should think of saving some of what we earn so that we may put it to work for us. When you say, "I can't even save a nickel— (or a dime)"—think—would you continue at work if your income was reduced by that amount? And then think beyond that to a figure that would actually become a hardship.

Somewhere between the ridiculous amount of a nickel or a dime and the actual amount you'd find to be a burden is a fair figure that you might use to begin a savings program.

A great help to this long range plan for reducing the cost of living is our own Credit Union. You'll find able counsel there to direct your thoughts and they can show you where even short term loans need not disturb your long range plan to save. An incentive to begin a savings program will be offered soon by the Credit Union to attract new members and new "Savers". (Watch the bulletin boards for publicity of this plan.) They'll help you by setting up a payroll deposit plan which will automatically set aside any amount you decide from your paycheck.

The big difference between saving money the Credit Union way or some other way is—money. You earn more generally through your Credit Union. The amount varies but with a group as active as Tektronix a legal maximum dividend of 6% was declared last year. That's very good.

The method of computation for your dividend on Credit Union savings is based on share-months. A \$5 deposit (one share) held through six months to Dec. 31st would equal six share-months. Likewise, \$10.00 (two shares) held for six months is equal to twelve share-months. You spoil the plan by withdrawing before the date of record, December 31st. Keep 1000.00 on deposit until November—withdraw \$500.00 of it and you've lost \$500.00 (100 shares) for a period of 11 months. That's not good.

PUT IT IN—KEEP IT IN—BORROW IF YOU MUST BUT START BUILDING SAVINGS BEFORE YOU GO BUST!

Continent Familiar To Export Member



Shown here talking to Al Hannmann is Freddie DuMortier who is an engineering representative of Regulation-Mesure, our overseas distributor in Bruxelles, Belgium. Mr. DuMortier spent a few busy days at the plant absorbing the theory of repair and maintenance of our instruments, capably imparted by Lloyd Sharp and others in the Tektronix Test and Training groups.

A man whose background makes the by-ways of Europe more familiar to him than the west coast of the U.S. is Al Hannmann, of our Export Department. Al made his first trip to the west coast when he came to Tektronix direct from England in October of 1956. Before that he had spent all of his life on the eastern seaboard and a good part of the last fifteen years outside the continental limits of the United States.

A native of New Jersey, Al attended New York University and Cornell until his schooling was interrupted by World War II. He served in the Eighth Air Force and Married an English girl. Al and Kathleen have a lovely daughter. Lynn, age 10.

After the war Al went to work for Lockheed on an air-sea rescue contract that they had taken over from American Airlines in Iceland. Following this he continued with Lockheed at their Marietta, Georgia plant

where he was busy in flight testing B-47's and B-29's.

In 1954 Al moved over to Collins Radio Company and established their European operations with headquarters in London, England. His responsibilities and travels took him throughout Europe, covering all major cities from Helsinki to Istanbul.

Al speaks German but believes anyone can get along fine speaking only English. The Europeans have a good command of English and you can get along much better using it than trying to use "high-school" French or German.

Dal met Al in Hanover, Germany at a trade show where they became very well acquainted and as Al says, "Dal is a Junior Chamber of Commerce when it comes to sellin the Northwest." It sounded like a very good place to live and work and they're glad to be a part of the growing Tek family.

Tek Scope Aids Cancer Research

by Lloyd Sharp

Electronics is finding its way into medicine in a big way these days, and Tektronix is playing no small part in these developments. Doctors are using pill-size FM radio transmitters which the patient swallows, to measure changes in pressure in the intestinal tract; electronic probes are recording brain waves and locating epilepsy-causing lesions, measuring nerve impulses and signals from the heart-beat;—and closed TV systems are aiding surgery instruction, protecting doctors while aligning patients and Cobalt bombs in radiotherapy treatments, and facilitating the study of living cells. This brings us to the main point of our story, an item contributed by Field Engineer Harry Allison.

Dr. M. J. Kopac, in the Medical Research Center of New York University, is engaged in cancer research. Dr. Kopac is studying single living cells with a technique which involves a welter of electronic gadgetry. His microscope is equipped with micro-manipulators and a TV camera. The cells under study are colored with a harmless dye, and their images appear on a 21-inch TV screen.

The micro-manipulator is a geared down set of tiny needle-probes under precise control of the operator. With this device, Dr. Kopac lifts the heart (called the nucleus) out of a healthy-living cell, then removes the nucleus from a living cancerous cell and places it in the healthy cell. Result: the healthy cell becomes cancerous. A tektronix oscilloscope connected to the TV receiver provides a method

of making critical measurements on this point. Here's how:

If you get close enough to a TV picture, you can see that it is made up of closely-spaced horizontal lines—more than 500 of them. A Tek Type 535, triggered from a certain part of the TV picture signal (called the "vertical sync"), can be made to measure any part of the picture signal, or add something special to it: a pulse which will brighten just one line on the picture-tube screen.

Turning a calibrated dial on the oscilloscope panel determines which line is brightened. Thus, when Dr. Kopac wants to know the diameter of the cell, or any part of it, he turns the dial, noting the dial reading as the brightened line touches the edges or parts of the cell image. He can gain further data by setting the brightened line so that it crosses the center of the cell, and applying the picture-signal for that line to the vertical input of the scope. The bright and dark portions of the cell appear on the screen of the scope as a bumpy line, the height of which at any point corresponds to the density of the cell at that point.

If great magnification is needed for fine detail, a special microscope is used with ultra-violet light and a UV sensitive TV camera tube. This system requires fast work on the part of the observers, because the UV light will kill the cells in 3 minutes.

Studies of this kind, by Dr. Kopac and many others in the cancer field, are advancing our knowledge of this dread affliction, and paving the way for control and perhaps eventual eradication.

Phosphors... The Tracemaker

by Laura Lusk

When the "trace" flashes across the face of a cathode-ray tube, more than an electrical impulse is represented. The actions of many intricate parts and interesting people have been synchronized into this "patterned behavior". Not the least of these is the settling of the phosphor. It is the thousands of tiny luminescent phosphor crystals distributed evenly over the face of the tube that light up the picture flashing across the screen, or the trace that stands quivering in one spot for your inspection.

If you look in on the department in CRT where this phosphor is settled on the face of the tube, you will find a light cheerful room scrupulously clean. This care for cleanliness extends even to a precipitator that cleans the air entering the room and to the attractive lint-free daeron uniforms worn by the girls who work there.

When the envelopes (bottles, in the vernacular) enter this department, they have already had a conductive helix wound down the inside of the glass. A band of black dag connects the helix to the terminal button near the face. The application of the helix and dag belong to another department but the phosphor girls handle the envelopes in such a way as to avoid damaging them and the girls also check on helix and dag stability as the envelopes pass through the processes in the phosphor department. When a weak acid solution is put into the envelope for cleaning the inside face, no acid is allowed to touch the helix and the diluting and removal of the acid is followed by much spraying and rinsing. If you see someone rubbing and polishing and inspecting the upturned bottom of a bottle she is probably not trying to use it for a mirror. She will be checking for any minute imperfection in the glass, scratches, or evidences of incomplete cleaning. This acid cleaning is called etching, because a microscopic film is etched off the surface of the glass. Etched envelopes are placed over infra red heat lamps on a specially constructed settling table. A glass lined water tank keeps deionized water at about 50°C. and a flexible hose from this tank reaches each envelop on the settling table.

It is a dramatic moment when a row of prepared envelopes is arranged on this table with long necked plastic funnels suspended into each one. The lights are on, shining flasks of measured phosphor crystals in kasil and water are in place, and the barium acetate container with a graduated cylinder is at one side ready to be picked up by the girl whose turn it is to "settle". With an easy rhythm, she will fill the graduated cylinder with barium solution, and as the funnel fills she will measure the barium for the next envelop. When the water level reaches the proper height she moves the hose on to the next envelope. A vigorous swish of the phosphor flask and a quiet tipping of its contents into the first funnel completes the first envelope. As the operator moves on to the second, you may watch the phosphor being carried down the neck of the funnel in the first envelope. It passes thru a silk filter and is sprayed thru tiny holes around the tip of the funnel into the warmed, lighted water. The funnel is carefully removed and as you watch, the phosphor crystals settle slowly to the bottom leaving the solution in the envelope clear. If no foreign matter has entered the envelope, if the amounts of various materials have been correct, the timing of the operator has been good, and the positions of envelope, funnels, and water level well adjusted, the crystals will settle into a smooth, blemish free, coating of the face.

After a proper interval of time the envelope will be moved from the settling table and clamped onto a tilt table. The top of this table tilts very slowly at a uniform speed letting the water pour out of the envelope and off the phosphor coating without disturbing it. The sides of the envelope are rinsed with a gentle spray of

water and the face again inspected for any defects on the outside or any phosphor failure on the inside. The perfect ones are placed in an oven for a short bake. After this bake the phosphor coating will be well bonded to the glass and will be ready for the lacquer and aluminizing which follow.

This process is repeated many times over with small variations to accommodate the different kinds of crystals that make up the twenty or more types of phosphors we regularly settle. If you are lucky you might be watching when a two layered phosphor is put down—the P24 has a yellow coating near the face topped by a white one—or you might wonder about the intent expression on the face of the settler as she speculates on the P24 going down at all.

There will be the checking of temperatures to claim your attention, the cutting of the tiny silk filteres for the funnel tips, the mixing and filtering of the barium acetate solution, and the preparation of the phosphor flasks. One operator is busy weighing the phosphor for the flasks and adding a measured amount of kasil from the dispenser made especially for this operation. She also processes any phosphor crystals which must be specially treated before they can be settled. The checking and sorting of the completed envelopes takes a great amount of time and space too.

But always you will come back to the moment for which all the careful measuring and filtering and processing is done, the time of lights! action! phosphor!

SCIMAREC

First lay the clay, or is it "lie"
Then saw the strips when they are dry.
Next drill the holes, not fast, not slow
Now on thru glazing, white as snow.
Next sponge the bottoms, clean and neat
Then cut the notches, each complete.
When fired in kiln, how they shine
At this point silvering takes the time.
Then fired again, now timing neat.
From there to studs, then bake repeat.
It's nuts, space, paint, then in a box,
The strip job's ended, put in stocks.
There are caps, tubes, posts and turrets, too,
Probe cups-- they can use quite a few.
Right here my well of thot ran dry,
Do hope this 'poem' will satisfy.

Inge Stromberg, married on May 11th was honored by a bridegroom shower. That frying pan will be put to good use won't it Inge?

Jack Gaeth was showered in honor of the birth of daughter Karen Ann on May 20.

May birthdays celebrated on May 27th with a dee-licious pie fest were: Rose Archer, Bev Furchner, Barbara Halverson, Jackie Franks, Janet Hoodenpyl and Helen Pemble.

PLASTICATS

We were honored by a visit from a V.I.P. His friendly manner and charming ways endeared him to everyone and we hated to see him leave with Bob White. Take very good care of that Very Important Puppy, Bob.

The vacation bug has hit with a bang. Aloha Jernigan headed for San Diego, Elsie Gilbert to San Francisco and Val Arczynski to Wisconsin and Arkansas.

Bob Marchino has a very healthy respect for the saw now. Dame fortune must have been smiling at him the day he got his thumb in the way. A few stitches repaired it almost as good as new.

Betty Bohall finally caught a fish. After forty tries she deserved it.

TRANSFORMERS

A gathering of friends at the Ron Van Dyke home near Forest Grove on May 11th featuring cards, music and chow was enjoyed by all.

The Lee Crocker home will be the scene of a sequel to Ron's party June 15th. Barbecued hamburgers are No. 1 on the menu.

Hildy Schmidling is thinking of turning in her Portland Beaver Stock unless the Bevos purchase a catcher!

Rennie Dayton, Transformers bowling champ, plans a vacation in Washington D.C. this year.

Gordon Sloat took an April leave this year to work on his new home. He was found topside working on the roof.

Chick Furchner seems to be trying out some European cars. We're wondering when we will see him toting the better half to work on a Vespa Motor Scooter.

"Playboy", Gil Gilbertson sporting a new twinkle in his eyes. May 31st is the wedding day. Congratulations Gil.

Soon it will be— sailing, sailing—for Dean Potticary. He's due for 2 years active duty in Coast Guard Blues.

Bruce Adam bought a new home in Cedar Hills. We understand his old home is for sale.

Education is taking in a few of the fellows here. Gil Gilbertson and Chuck Carrell attending Portland TV school; and Joe Ferris and Ron Van Dyke going to Multnomah College night school.

Ava Crawford is expecting number three in August.

Bob Newkirk, Little League manager, seeks a .476 hitter by late May.

Dick Zchoche and family look forward to a vacation in Iowa this year with relatives.

Jim Billiu decided against a new Hillman Husky in favor of his old Chevy.

Paul Zergenyi noted to be a nurseryman showed up at work the other day with a black eye. A little spring pruning and a frisky limb at fault.

Warren Riemann believes two can live as well as one. He'll try to prove this at Grants Pass on June 8th. Our congrats.

Ray Newton planning a vacation in July at which time he plans on getting married.

CAPACITOR CAPERS

No rib ticklers are wanted at the Gene Anderson home. Harriet and husband Gene were in an accident Saturday, May 18. A car, running a red light, ran into them broadside and gave Gene some cracked ribs while Harriet suffered bruises and torn ligaments. They were returning from the airport after having seen her sister leave on a plane for California.

Results of the Northwest Bowling Tournament at Spokane in Class D were reported by Kay Bartmess. She said Parker's Furniture of the Scopette League were in 4th place. Winners of \$50.00.

FRONT OFFICE FABLES

This team's lineup is changing drastically what with Catherine Case positioned to shipping; Lorraine Kinion fielding at printing; Leanne Garfield to battery (PBX) and Margaret Wittmayer relieving from sister league swing.

Barbara James and Yvonne Moran retiring in favor of the up and coming pee-wee league.

A few new rookies are Betty Jorgensen, Marge Hazen, Alice Stanley, Helen Berger and Jan Martin; however, Jan is taking off for New Hampshire via Los Angeles and South Carolina to join her husband. Helen Berger is our new PBX operator on Swingshift.

Ruth Haugsten vacationing in Las Vegas—length of stay— depending somewhat upon strength of right arm—deposits from office crew were taken for investing.

Ron Goard real startled by surprise baby shower given him—his Grandpa for first time.

Audrey Enger's engagement announced for a September wedding.

Irene Foxton entering into the sport's car field with a TR3.

Anyone interested in Women's Bowling teams please contact Virginia Bartmess on 206.

ACCOUNTING

A shower was given at the China Lantern on May 9, in honor of Nancy Goodman, bride-elect of Test's Dick Taylor. 23 girls were present.

The big day is set for June 9th, and according to Nancy it is 13 days 4½ hrs. away at the time of this writing.

We hear by way of the grapevine that Lt. Bob Newberry is quite a catch for some lucky girl—he can cook divine breakfasts and can also manage to look attractive early in the morning without aid of curlers or cold cream. (He looks so natural!) He does need a girl who can sew, though—his socks are on the way out.

Our department is blessed with 2 newcomers, Beverly Beumeler and Ray McGinley. Beverly is from Moscow, Idaho and has a newly drafted husband who is now the proud owner of a shaved head and khaki Bermuda shorts. He is on his way to Fort Lewis for an extended visit.

Ray has six boys and a wife in Roseburg, but he hopes to find a large house near the plant in the near future so his family can join him.

SHORT CIRCUITS

The Nite-Owls are still hooting. Some are vacationing, some are hospitalized, some are just home sick and everybody is switching from group to group.

To quote Pat Michner... "Funny thing about vacation time, everyone is in such a toot to leave. Maybe they feel the weather will be nicer where they go. When they reach their destination they more than likely find the weather is just as juicy (rainy) and could have just as well stayed at home to do their sitting around at much less expense but ah well, such is life, eh?"

Karleen Burkholder is leaving on June 8th for Port Angeles, Lea Thompson left May 27 for Eastern Oregon; Jeanne Warwick is leaving June 7 for Seattle to join her husband who is employed at Boeing; Kathy Bryan will be in Mexico after June 20. That means more leather for more purses for the Tek girls.

Verna Terry is to vacation in Michigan two weeks in July; Lucille Powers will trek to Chicago for her rest. Donna Knapp will be in the Southwest and Mexico; Mollie Veale is in Missouri for two weeks and stated before she left, "If a tornado comes, I'll fly to New York but quick".

Pat Guard transferred to Capacitors. Marge Furukawa probably will not go clamming for a while. Too much sand huh Marge?

Hlene Wence had her tonsils out and her throat was so sore she couldn't say "no", so now she is Mrs. Paul Souther. The happy event took place May 11 at Goble, Oregon. Paul is in the Navy stationed at Moffett, Calif. We all wish her much happiness.

Bey Cloninger was operated on May 21. Winnie Ninneman was operated on May 28. We wish them both a speedy recovery and hope they will be back soon.

Barbara Warren is home with a cracked rib and Doris Rothenberger has been under the weather too. Hurry back kids.

Bud Rasmussen went fishing in Eastern Oregon and fell in a Beaver hole. Gee are we glad he came back safe and sound.

Our second half of bowling is over. Everyone enjoyed it and would like to have a summer league. The group turned out some pretty good bowlers. Barbara Warren will have another trophy for second highest game with a handicap of 250. During the first half of bowling she received one for the most achievement. Congrats Barb. You've done well.

Cathy Meyer took high series scratch with a 550 for a nice trophy. Congratulations to you Cathy.

Mollie Veale's husband, Harold, took first in sweepstake with a 242 with handicap to win \$4.50. Is she proud of him!

Tek Trainer To Take Tour

Dave and Joyce Spinks are leaving this month for a motor tour through fifteen foreign countries to satisfy the fulfillment of a lifelong desire.

This summer will mark the culmination of two years of planning on the part of Joyce and Dave. They like to travel and the idea that an European jaunt was at all possible grew from a chance remark as they finished a southwestern trip in the United States on their last vacation. "Why not Europe?"

France, Belgium, Holland, Denmark, Sweden, Germany, Luxembourg, Switzerland, Austria, Italy, Spain, England, Scotland, Northern Ireland and Ireland will be toured in roughly this order. The trip will take approximately two and a half months and cover a distance of nine to ten thousand miles. They will leave Portland by air on June 28th via United Air Lines to New York and Pan Am to Paris. On arrival in Paris they plan to lease an auto for their tour (self-guided for the most part) and return from the continent on Sept. 15th, again, by air.

They plan on meeting Gilbert Augenieux in Paris who will escort them on their tour of the famous French metropolis. Gilbert was here at Tektronix for about three months (Aug.-Oct.) in 1956. A student of Law and Business, Gilbert received a scholarship for foreign study. He was briefed in many departments as part of his training in American business practices and administration.

If time and circumstances allow Dave hopes to include visits to each of the Tektronix foreign distributors in the countries they visit. Two to three days will also be allowed for stopover in both New York and Washington D. C.

Ed. Note: Dave plans on making extensive photographic record of his trip. We hope to hear from him enroute and look forward to viewing some of his film when he returns.

Whats Under The Hood



Unlike the Arab, who folds his tent and steals away, Edna crawls under hers and stays all day. What's under there, what's it all about? The rumors are wild, some people even shout!

(She's an atomic scientist, checking radio fall-out)

(She's in contact with a racetrack, a female tout)

It's a hot plate, she fixes eggs and toast)

(She thinks she's Martha and has the Most!)

(She's an electronics genius testing our scopes)

(She's just like Garbo, stays alone and mopes.)

(One day she yelled "they're here again", People heard her talking to some little men)

(She found a wrinkle she thinks a disgrace)

She stays under all day and fixes her face!)

These guesses are fantastic—None are true.

I have the facts to pass on to you.

I know her secret, why she lets no one in.

(It's a special device to test her bathtub gin!)

By an unknown author by the name of Mickey Kockich about Edna Uhlrich.

ED. NOTE: We've asked for an article written by Edna—where the REAL truth will be found.

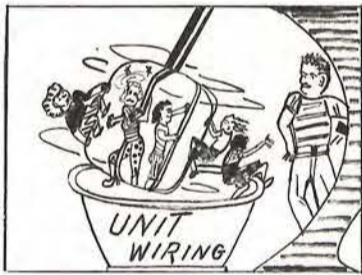
See Story on Page 1 —



Lee and his four charges stopped in Transformers long enough for Ed Egan to photograph them. They are Roger Wagner, Sydney Frank, Guy Krutz and Donald Pilger. Lee left recently on transfer to the Baltimore office. He stopped over at the University of New Mexico in Albuquerque where he received his Master of Science degree in Electrical Engineering.

THE MERRY MIX UP

D'you want a ride? When they're hiring, Just get a job in Unit Wiring. This place is a mixmasters dream and some mixmaster's on the beam! When everyone is settled down Along comes some darn stupid clown— "Say, for some reason, all is quiet. HOW ABOUT A CHANGE IN DIET!" I'm sick of these old hens & chicks We'll mix 'em up. How's that for tricks? We'll drive them to the nth degree Then practice our psychology. When we're done, if they're all sane We'll switch them all right back again!! So be their newest prote'ge And get all this besides your pay If you end up with tranquilizers We'll be your staunchest sympathizers.



KIT PREP



FAREWELL GOOD LUCK AND WELCOME BACK!

Leonard Mason left Friday, May 3rd for a well earned vacation. He planned a leisurely trip through the land of sunshine and points south. Leonard had a little unspent vacation from last year that gave him some additional time to travel with wife Grace and son Steve before returning to Tek.

On his return he joined Unit Wiring as a group leader. We will miss him as he was our "boss" for 14 months. (During that time Kit Prep burst the seams several times from a group of 10 to 24 and twice as many kits to assemble.)

Len became quite confused upon opening his 'going away' presents. Four nicely wrapped gift boxes— then a pair of red, white and blue shorts were unveiled with a tag, "Do It Yourself". A reminder that gardening, painting, etc. should be finished before his trip started. Away down in the box were rolls of movie film— and what a change of expression on Len's face.

Irene Wilson, Kit Prepper, became Bob Wing's bride on April 27. Arlete Burr and husband Perry helped Cupid find the right road back to Chehalis and escorted the newly weds to Portland.

Phil Mallery is welcomed as new supervisor of Kit Prep. (Headache pills and crying towels are furnished if the modifications come in at a faster rate than expected, Phil.

Jim Tennyson transferred in from Transformers and with his 6' 7" in height is a welcome addition to the group. He can reach the highest stock box!

Connie Luckenbach is a full fledged Kit Prepper; and is fast becoming an experienced rancher. She has a budget set up for her three month profit share to insure that her animal population will be well fed until her deep freeze arrives.

Recent Births And Marriages

MARRIAGES

Margaret (Garrett) and Ralph Livermore 4-5-57
Pius Scheer to Ina Irene Moore 4-26-57
Marcille Holmes to Ronald L. Clark 3-23-57
Charlene Martin to Edward Colby 5-4-57
Inge Stromberg to Rosalee Clarmore 5-11-57
Mavis Harn to Robert Haller 5-11-57
Regina Cosby to Harold Edmundson 5-14-57
Ivolute Evans to Edwin Takkumen 5-15-57
Jim McGill to Delores Gunderson 5-17-57

BIRTHS

Tom and June Ruyle Daughter 3-25-57
Ivan and Mary Arnold Daughter 3-27-57
Michael and Mary Park Son 4-6-57
Verl and Sharon Smith Daughter 2-27-57
Ralph and Marian Walter Daughter 2-5-57
Robert and Patricia McIntosh Daughter 4-5-57
Gerald and Patsy Smith Daughter 4-14-57
Dick and Rita Place Son 4-18-57
Allen and Barbara Peecher Son 4-26-57
Pete and Shirley Parsons Son 4-12-57
Joe and Cecelia Jameson Son 4-29-57
Vincent and Dorothy Bail Son 5-1-57
Ralph and Marjory Hoffmeister Daughter 5-5-57
Robert and Jeanette Poulin Son 5-21-57

The Beggars Report

The Beggar's Dozen Investment Club completed its second year of investment this month with \$2618.42 in the till, according to Fred Tinker, outgoing treasurer. The Club had an outstandingly low membership turnover with six of the seven original members still active.

Financially the Club has little to complain about with a profit of \$728 and 42 cents on an average investment of \$864.92. This is equivalent to an interest rate of 40 per cent compounded annually. Most of this profit was earned this year under the leadership of outgoing president, Henry Scott.

Newly elected officers are Kes Hottle, President; George Roussos, V-President; Jack Stoll, Secretary; and John Dureka, Treasurer. Meetings are held the second Tuesday of the month and are open to visitors. Membership has grown to ten members with one opening remaining within the limit of eleven set by the Club's charter.

Tale Spinners



Jack Cassidy, Eastern Division Manager, gave us a good run down on his flight activities and among other things reported the enthusiasm that his boys John and Bob have for aircraft. They are both eager to go up anytime Jack offers to take them. Johnnie (age sixteen and six ft. tall) recently demonstrated an excellent flight with a model Aeronca and power plant. Both boys are interested in building model planes.

A year ago Tektronix added another enthusiastic club when the Employees Flying Club reorganized with the purpose of supplying minimum cost instruction and education in flying. The year began with the purchase of two aircraft for basic and advanced flying instruction. A piper J-3 was selected for basic instruction and a Piper Tri-Pacer was chosen for cross-country and four-place flight. This spring has seen the addition of a late model Luscome 8-F two-place airplane to the fleet for extended trips. This is a fast, trim, and economical aircraft.

SHOP



Congatulation to Dick Furrow who will be married on May 29th to Janet Haines. They're wished lots of happiness together.

Ed Brooke has issued an open invitation to any Hi-Fi fans to see his Bell and Howell Hi-Fi Radio-Phonograph and Tape Recorder. Of special interest to Tekers is the built-in oscilloscope tuner. Ed is also a capable calypso style singer and guitar player— so anyone wishing a good evenings entertainment, I would suggest you drop in on Ed.

The Scopemobile Department just doesn't seem the same without the familiar face of Ivan Arnold who transferred to Mechanical Design. Best of luck to you in your new location Ivan.

Al Briggs, Wayne Strutz, Ed Brooke and yours truly are looking for some good competition at the indoor golf links ("snooker" to the uninitiated). Anyone interested in getting in on the fun see us on Friday.



COILS

Arlene Wohlgenuth is a "catty" person... she is proud of it in fact. Arlene raises Siamese kittens! Her Siamese Blue Point male novice, "Fan-tee-Cee's Shan Fang of Phil-Lori's" was only male Siamese cat to win from the Northwest in the Annual Quad. Cat Show at Oakland, Cal. in March. Shan also appeared on television in the "Lady of the House" program.

Shan received two trophies and two rosettes and one rosette for best of color in the four shows. The cattery, "Phil-Lori's" is registered with three national organizations and they have kittens the year around.

SCREW CREW NEWS

Regina Cosby and Harold Edmundson were married in quiet ceremony on May 11. The happy couple were presented with a Sunbeam deep fryer by the Gift Fund. They spent a nice weekend at the beach. A happy and wonderful life together is wished for them by all the crew.

Nan Cooper was happily surprised the other night when her husband, Corporal Dick Cooper, walked in on her for a 30 day leave of absence from the Munich, Germany post where he has been for the last 18 months. Dick saw his one year old son Ricky for the first time.

Frances Pierce and Jewell Umbrite are both wished a speedy recovery from their recent hospital stays.



Hal Busch accepts trophy from Clair Cooper of SAWYERS. Trophy is a ten year-annual match award.



THE WINNERS. Kneeling, left to right: Lee Cooper, Cliff Wilson, Jim Peabody, Ted Woodhouse, Hal Busch, Byron Broms and Ed Egan. Standing, left to right: Hawkin Au, Bob Leipzig, Tony Klobertanz, Allen Peecher, Bob Guthrie, Frank Thomas, Ed Hopper, Jim Zika, Joe Almand, Kevin Van Hoomissen, Bob Newberry. Missing from picture are: Clair Kidd, Bob Fitzgerald, Walt Dederick, Paul Adamson, Warren Trask, Lee Mason and Forrest Shiflett.

THE DISEASE OF HEEDLESS HORSEPOWER IS contagious! DON'T GET contaminated!

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