



These boys are the hard working, get-'em-out-the-door crew that represents our shipping department, which is headed by Paul Belles. This crew is the last to handle Tek's scopes, and sort of "put them to bed" before they leave for nearly all parts of the world. They certainly deserve all the credit they may get.

## Shipping Department Offers Clue To Monthly Bonus Barometer

"How many today Paul?" That's the favorite question at Tektronix these days as all eyes are on Paul Belles and the shipping department with the bonus barometer right beside it. That's the question and Paul's answer is right down the line. He states that it takes only 20 minutes to get a 531 ready for shipment — by simple computation on a 40 hour week that adds up to 120 scopes per week — that is if we shipped only 531's.

Shipping has a change of scenery in the new Tek addition and are still crying for room. Operations are right down to an assembly line system. Parcel post, cabinetizing, wrapping, sealing, cartons strapped and labeled are all important functions. Assistant head in the shipping is Cal Bjerke who is personally responsible for all shipments in the export department.

Much of Tektronix shipping becomes highly technical due to the varied instruction manuals, probes, power cords, serial numbers, plug-in units and the care exercised in handling the scopes. Next stop is the customer and Tektronix is extremely proud of the smallness of the complaint record due oversights in shipping.

Tektronix people all share in the financial success of our business. At present, 22½% of the profits (before corporation taxes) are set aside, to be distributed among our people. An additional 7½% of the profits are set aside each year for the Retirement Trust Fund making a total of 30% altogether.

The current bonus barometer includes the period from December 1st to May 31st. One-half of the bonus earned during the previous month is now added to the check you get on the 5th of each month. The accumulated balance of the bonus will be paid in June.

New employees who have been at Tektronix less than 90 days will have their portion of the bonus withheld until the 90 day period is completed and they have been placed on the permanent staff; then it will be given to them. Temporary employees or employees who leave before the 90 day period are not eligible for the bonus.

What counts in the bonus is what is shipped. Keep your eyes on the shipping department, the Flying Tiger freight trucks and the domestic carriers — Paul and his crew are working for you every day.

## Radioactive Scopes Re-built As Tek Prepares to Ship 12 517's

The coral dust of Bikini — the alkali of Los Alamos — dirt from Las Vegas — that's the problem of test's public service department these days as 12 of Tek's 517RS's completely reconditioned and rebuilt are being readied for shipment.

Tek's 517 is the only high speed oscilloscope of its kind manufactured in the United States or abroad and is mainly used in development work wherever pulses of a very short time duration are being studied. In response to a contract with the Naval Research Laboratory in Washington, D. C., 25 of these special instruments were built (the 517RS which is an adaptation of the standard 517) in the summer of 1953. These same machines were later given to various universities and government research laboratories.

From these various scientific centers, 12 of them have come back to Tektronix for repair. Using a Geiger counter, all instruments were found to have some degree of radioactivity. Bent frames, broken tubes, rough handling, salt water damage to panels and aluminum parts — such severe mechanical damage that in practically all cases the instrument had to be rebuilt.

In cleaning scopes, Tek's repair department has developed a new process in the last year. To get rid of alkali dust and oil, a commercial detergent is used first, followed by a clear water rinse. Excess moisture is blown out by heavy air pressure and then the instrument is put in a slow oven to furnish the job.

Average time on the instruments for servicing has ranged from 30 minutes to two weeks in working days. In contrast, in certain tests

conducted by the Atomic Energy Commission it is believed that a scope located near "ground zero" after a blast has been completely disintegrated.

Tek's customer department is headed up by Sandy Sanford with Buck Murphy, Chet Harding, Joe Vistica, Pius Scherr, and Carl Helmer working as a team.

## New Board Member

### Board of Trustees

Howard Vollum, president of Tektronix, Inc. has been appointed to the Board of Trustees of Reed College.

## Attends Conference

### In Los Angeles

Don Kepler was absent from April 25 to 27 while attending the Conference of the American Management Association in Los Angeles.

## Transfers and Promotions

Earl Scott goes to department head in test from the responsibilities of writing the Tektronix instruction manuals.

Ed Bauder leaves department head in test for the field engineering staff. Chicago's Tektronix office gains Don Clifford from test.

Transferred to Bronxville in the field engineering office goes Gerry Kraxberger (test).

## Tek's "Mrs. America" Finishes Amid Eight Contest Finalists

We have a celebrity in our midst! Helen Rohr (ceramics) was selected as one of the 8 finalists in the Portland Gas & Coke sponsored contest for "Mrs. America."

First competition was among a field of 25 entries in Forest Grove. Helen was chosen among 3 others for the district contest on April 17th and emerged from this as Mrs. Washington County in the state contest April 19-22nd at the Benson Hotel.

A cooking and homemaking contest, finalists were put on their mettle in a competition of cooking, sewing a zipper in a shirt and ironing a shirt. In every contest, experts and home economists then judged the result. Each contestant was to prepare a menu for the day and then was asked to prepare her dinner menu. Helen's dinner menu was a shrimp and grapefruit appetizer, lamb stew Parisienne and lemon meringue pie.

Winners were announced over KPTV on the "See Hear" program Friday evening, April 22. Winner was a civic leader and a mother of 6 daughters; who as Mrs. Oregon, will go on to the national finals in Florida.

## Wedding "Belles"

On April 15, Margaret Smith (assembly) was married to Harold R. Marshall.

Trudie Brookens (assembly) is changing her name to Mrs. Cook.

## Investment Clubs Now Show 86 Tycoons

If their investments mushroom as their clubs have, those who joined one of the seven investment clubs recently started by Tektronix employees will not only have learned a lot about investing, but have increased their financial welfare.

If you visited one of these club meetings soon, you would probably hear such words as "Dow-Jones Index, growth, ex-dividend, price-earnings ratio, brokers commission, yield, etc." bandied about. Attend five or six months later, and you will probably find the members acting as tho these words aren't so strange, for the primary purpose of investment clubs is to help the members learn more about investments and our economic system.

### Members of Investment Clubs:

1. Become acquainted with many companies and their products.
2. Understand better why companies succeed or fail.
3. Learn more about our American economic system.
4. Share in the ownership of many companies.
5. Improve their financial security by
6. Learning how to invest wisely.
7. Build stimulating friendships.

The amazing number of 86 employees have expressed an interest in clubs. 61 of these are in the process of organizing seven clubs. Five of these clubs already have no room for additional accounts. Only one of these has a tentative name, the "Fortune Investment Club" organized by Jack Day and Ken Walling.

It was recommended that these clubs encourage the membership and attendance of married couples, for investments are of vital interest to

both wives and husbands. They were also encouraged to include friends who are not employees of Tektronix to aid in broadening the viewpoint. For these reasons, the clubs are planning to meet evenings.

At a "mass meeting" of most of these 86 employees, it was strongly indicated that plant wide rather than departmental or natural group clubs were preferred. Therefore the names of those willing to organize clubs were posted on the bulletin boards, and potential members selected their clubs.

The two organizers who may still have room for additional accounts are Dave Spinks and Henry Scott-Fred Tinker. Those who are interested, but have not yet had an opportunity to join a club may see either of these organizers, or again contact Don Ellis. If there is still a demand for clubs after these seven are complete, additional organizers will be sought, and more clubs formed.

The first club to work out its rules was that organized by Hawk Au. These rules were made available as a guide to the other clubs, in addition to much information that has been pooled for the use of all clubs. Hawk was elected president, with Sandy Sanford, veep, Bill Lee, sec., and Eldon Urbigkeit, a young tax accountant in Portland, treasurer-agent.

The club organized by Phil Mallery is the largest, and worked out an excellent, detailed set of rules, also made available to the others. Emil Evans was elected president of this club, with Ken Jacobsen vp, Vernon Walker sec., and Phil treasurer.

Clubs have been completed by Bob Fitzgerald and Dick MacNeill, but these have not yet elected officers. Future news of this mushrooming activity will appear in Tek Talk.

# Tek Talk

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## Might As Well Be Spring

Some months are like that — income tax, rain, no activity. Now weather-wise, it's disposition-wise. With a fair weather barometer in sight, predictions are: good fishing for the new De-Liar Fishing Club; great percentage of return for the new investment clubs; vacation plans for spring and summer.

## Public Relations and Pantorial Problems

In a recent visit to our plant, D. G. Williams of New York met with an embarrassing accident in Tek's engineering department. While examining a Scopemobile, Williams leaned over and upon rising tore his trousers. Scarcely a routine accident for NBC, engineering felt that some amends should be made. Will Marsh in his inimitable style dashed off the following letter which was accompanied by a cartoon from the pen of Arnold Rantala. This we think, is a new high in Tek's public relations. We quote:

Dear Mr. Williams:

We note with a measure of concern an occurrence wherein you suffered pantal laceration in a most critical area. Please accept our apologies for the lack of foresight in design; since many of our engineers wear "Levi's" (which approximate the texture of Navy spec tarpaulin) our concern for protection of personal pantage has been less than adequate.

The finger of scorn has been wagged under the corporate engineering nose, and the corners of the Scopemobile drawers are being rounded, as you suggested. A new panel for your Scopemobile will be sent to Mr. Frost in New York, with our regrets.

It will no doubt be consoling to note, Mr. Williams that your recent exposure has stimulated us to remedial measures, and we have attacked the problem at the source, rather than supply with every Scopemobile, as has been suggested, assorted pants patches and a bottle of Mercurochrome.

We have an irrepressible cartoonist who inadvertently heard of your misfortune. We hope our extended sympathy is not prejudiced by his enclosed hypothetical conception of your involuntary ventilation.

Thanks for your restraint in calling this to our attention, Mr. Williams; we have on occasion, been bitterly reprimanded for a lesser fault.

Kind regards,

Will Marsh  
Field Engineer

## Personnel Album Solves Lost Engineer

Tek's Personnel photo album became a valuable asset last month with the advent of a small visitor, age 3 who refused to discuss scopes with anyone until he found his daddy's picture. The visitor wasn't lost, his daddy was.

Russ Polits who lives in nearby Cedar Hills suddenly decided that he wanted to go help engineering's scheme of operations and his dad in particular, and started off for the plant. Bob Davis happened to see him crossing the highway and dashed to his rescue. Russ navigated the highway successfully narrowly averting disaster as a car went into the ditch spotting him just in time. From there he was taken to the coffee bar but refused to talk to anyone. Mrs. Brown tried, Irene and Blanche took him in tow, assembly was toured and no one recognized him. Bob suddenly thought of the photo album and Russ went right along with him as he turned the pages. Suddenly the engineering section loomed up and Russ gave one excited yelp, "Daddy".

From there it was a quick car ride to home—no one home—they were looking for Russ. Bob was directed by anxious neighbors down one street and then another. He finally found Bill coming out of the woods looking for Russ and about the same time Virginia with his one year old brother, Richard came driving up in the opposite direction. A family reunion and a thanks to the photo album which Russ likes as well as his Mother Goose.

Virginia and Bill state that Russ is well known for his hair-raising experiences. One week later he

swallowed 55 aspirin tablets which was his second encounter; he has also experimented with paint thinner but doesn't like the taste. His other current trick is awaking in the early morning before anyone else and going out to play in the mud puddles in his D. C. Dentons; he is also trying to introduce his baby brother to the same sport.

Russ is just an explorer and keeps telling his daddy that he wants to play with scopes. Tek Talk predicts that we will have another engineer on our hands almost any day.

## Tek's Junior Parade



Only applicant for the Junior Parade this month is; Rhonda Marie Fricke, 1 year-old Granddaughter of Margaret Byan, Assembly II and Vic Fricke (Boston), Field Engineer.

# — THE BIN. —

Bob Herren's terrific job on Tek's new telephone directory was further complicated by change of personnel. All spelling had been corrected, employees alphabetized, everything okayed. With the presses set to roll and unknownst to Bob there were two marriages and two changes in name. Anyone contemplating matrimony, kindly for purposes of accuracy check with Bob!

\* \* \*

It's reciprocal trade in CRT — Byron Williams made the rounds of each room with a big box of candy for all of the gals the other morning — just gratitude for all of those delicious goodies that seem to abound in that department.

\* \* \*

Sage remark came from Sandy Sanford the other day — "Rain has the flue, at least it has the drizzles!"

\* \* \*

Henry Bahrs has survived the shock the test department provided for him. Pius Scherr was doing a minor repair job on his radio and went to get Henry to show him how well it worked. While he was away, fellow pranksters wired a 47 ohm resistor into the radio. He plugged it in for the trial and you guessed it; an explosion and flames. (No damage!)

\* \* \*

With the proverbial Oregon mist coming down in bucket doses, Eskell Etling is now in the market for a light craft with an outboard motor attachment — A Hiller saucer — a skin diver outfit. It's a wet job delivering 'coffee and' to the tube building three times a day.

\* \* \*

### What! No Mustard?

Safeway's great special on hot dogs for 5 cents left them with no profits and no filled shopping baskets when the gourmets of the CRT took over. Like a band of locusts, six strong, the gals invaded, wrapped up 30 hotdogs, and retired back to Tektronix with an added purchase of relish — just a pleasant picnic on a rainy day.

\* \* \*

Everybody is envious of Lois Campbell (mech. assem.) who writes of her apartment on the ocean side of San Francisco and sunshine everyday. Joining her United Airlines employed husband, Lois finds that househunting is her main occupation these days.

\* \* \*

### LOST AND FOUND DEPT.

If ... .. would like his coffee cup, he can find it in the ... .. Well, really!

\* \* \*

"Georgeous George" is Tek's pin up boy carefully clipped from the April issue. However if the girls are through looking at "Georgeous George" they might return the tacks to the bulletin board in assembly 1.

\* \* \*

Coffee time in the CRT room was impressive the other morning as Ella Hansen came in with three homemade Boysenberry pies and ice cream.

\* \* \*

Ken Keyser had his bluff called as he strolled in the non-smoking section of the test department the other morning. As Ken lighted a cigarette, someone said, "There goes Keyser smoking up the department, throw him out." All was facetious until Ken, laughingly, replied that "You mean, try and throw him out."

Pius Scherr, Joe Vistica and Carl Helmer rose to the challenge and carried him to the door.

### Letter From Howard

Latest letter from one of Tek's European travelers came from Zurich as Howard Vollum described more of the favorable reception that Tek is getting everywhere. We quote: "We really have had the royal treatment from our reps everywhere. Mr. Hogg (London distributor) organized a dinner with 12 of the top instrument people from the various companies and government agencies."

The 540 series seems to be getting much interest everywhere. The question most frequently asked is about delivery dates. Sure hope you get production rolling.

### Nice to be Popular

Everywhere we get lavish compliments on Tek workmanship and neatness. It seems to have set the standard at a high level and certainly is one of our most valuable assets. The girls would be very happy to hear the spontaneous compliments we always get.

Looks like our girls are getting an internatiol reputation!

\* \* \*

### Frogmen Tryout

Gerry Kraxberger finally finished his skin diving outfit and with Carl Helmer went down to the YMCA pool for a try-out. Carl was the trial balloon but made only one error — he forgot that he was supposed to breath and emerged gasping for air. It works and only minor improvements are needed which Gerry is busily working out — if the weather keeps up, he's going to use it to and fro from work.

\* \* \*



This young man is not only a special baby but a Tek customer. Young Kurt Edward Spiegel became the 500th member of the Credit Union as of March 28.

\* \* \*

Wish book for production came through as they are scheduled for a move into larger office space in assembly 2. The supervisors fall heir to their former space. Marybelle may even be able to turn around now.

\* \* \*

### Six Sets of Plans

Most excited new suburbanite is Clara Knox (CRT) who with her family is moving to a 2 acre plot near Forest Grove on June 1. Biggest news is that all six of Clara's children will now be together.

Six reasons have almost as many projects. Clara is bubbling over with plans for a garden; space for children's hobbies; excited at the occasional glimpses of deer; talking of fishing in the nearby stream. But first on the list is that the Knox's are in the market for a collie pup!

\* \* \*

### South of the Border

That's an enviable tan that Bill McCord brought back from a two week vacation in the Midwest. Coming back with him was his father

who now plans on being an Oregon resident. Bill is still impressed at seeing the oil wells in Texas, Oklahoma, Kansas and California and further impressed at the business possibilities for Tektronix in that area — two way radio and television in cars is even routine.

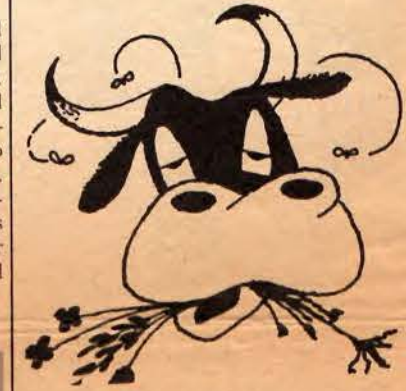
Traveling hazards included a dust storm for a 200 mile stretch out of Denver with tumbleweeds the size of desks; serious clutch trouble on his DeSoto that resulted in the purchase of a new Plymouth. Sightseeing in Juarez was a highspot including a guide who showed them the early missions and the historical spots of the area. Mexican shopping resulted in hand woven serapes, silver buckles, leather bags and notice those fancy hand tooled leather boots that Bill has! (No, you can't borrow them.)

\* \* \*

Nancy Jane Brown (assem.) is in a whirl these days with plans for her approaching wedding on May 21st at the First Baptist Church in Portland to Craig Singletary.

\* \* \*

### "Remember The Black Cow"



\* \* \*

Bowling still has staunch supporters with the mechanical design division challenging any 5 man team to a handicap 3-game match. Placed on all bulletin boards were the following conditions: name your place and time, handicaps figured on 3/4's of 180 pins; losing team would pay for the bowling. Any challengers? They are formidable but remember its on a handicap basis — check with Erwin Ashenbrenner, Burt Eberly, Slim Sorenson, Armon MacDowell or Bill Johnson for a match.

\* \* \*

### New Publication Racks

Starting this month, new material has been added to the racks in all departments — it's all interesting and informative and we hope you have time to make a selection.

High spots from our Book Shelf include:

"The Power of Positive Thinking" — Not new, but in response to your many requests. Designed to set you thinking and a builder for self-confidence. If neither fits, read it for pleasure.

"When the Unexpected Happens" — First aid at a glance and a must for the emergency — solves them all. "Eat and Grow Slim" — If you bring your own lunch, you'll like the sandwich ideas in this.

"Overweight and Underweight" — Complete with a weight chart and a slim by the week procedure.

"In the Teens" — If you think teen agers are a problem, read this and be surprised.

"Eye Cues for Eye Health" — Some tips for your eyes. You only get one pair you know.

"It's Good Business to Know Your Men" — The title is self explanatory.

Take a look and if you like what you find in the racks, let personnel know. Any suggestions are also welcomed. Next month's Tek Talk will contain a new listing.

# Tek Talk Goes To an IRE Show



The Beginning Leo Wulff and spectator



Here We Go Howard and his crew



Competition? Vic Fricke and Howard



The End Back to Bronxville

## Basic Electronics --- Cannon Ball Eddie

By Lloyd Sharp

In the last issue, Eddie Electron flipped and flopped his way through the sweep circuit, to the +225 volt supply line. From here he finds his way into the high voltage supply circuit, which builds up the accelerating voltage for the cathode ray tube (CRT for short). Eddie enters one secondary winding of a small transformer where he is again chased back and forth just as he was in the power transformer, but here the oscillations are far faster—several thousand cycles per second in fact. He moves onto the cathode of another diode, is emitted, crosses to the plate, and passes through a filter network which again smooths the "bumps" out of his rhumbance. From here he enters The Gun, a basic component of the CRT.

This "gun" is a device for forming a tight beam of high-speed electrons. It is composed of a cathode, and assorted grids, anodes and control plates. Eddie finds himself emitted from the cathode into a straight-run race-track. He is accelerated in an electric field of from 3,000 to 20,000 volts, depending on the scope model,



and in the few inches of the tube's length, he attains a speed of several thousand miles per second. Then BAM! He hits the fluorescent screen with the enormous impact of a pin dropped one million-millionth of an inch! This is hardly enough to make a gnat blink, but the phosphor atom he happens to strike with such Lilliputian violence, is considerably shook up, and hollers "OUCH" in the only way it knows how: it emits a tiny spark of light. Billions of these sparks in a small area, created by a concentrated beam of Eddie's fellows, is the bright spot you see on the oscilloscope screen.

Now then: What makes the spot move? Well, back in the neck of the tube, as part of the gun, are two pairs of metal plates forming a sort of gauntlet which Eddie must run in getting to the screen. One pair is vertical, and the other horizontal. A voltage applied across the first pair will force the beam of electrons to curve a bit horizontally, thus moving the spot horizontally on the screen. By varying this voltage uniformly, we can make the spot move just so many inches per second. This is where the sawtoothed wave from the sweep circuit is applied. If, at the same time, we apply a varying voltage to the other pair of plates, the beam will bend vertically, causing the trace on the screen to wiggle, and forming a "green worm" of light. Any test man will demonstrate this for you on demand.

All the rest of the oscilloscope circuitry is just a bag of tricks to control these two motions at will, and make them sensitive enough to be useful. Perhaps you should know something about two of these tricks: trigger, and vertical amplification.

If we connect the oscilloscope to some signal which we wish to observe, we want to see all of it, and we want it, by all means, to hold still. This is done by using the beginning of the signal, greatly amplified, to flip the flip-flop circuit we described earlier, thus starting the sweep. For very fast signals, the jillionth of a second required for the sweep to get under way might lead to distortion or skipping of the first portion of the signal, so our engineers have thoughtfully arranged a slight delay in the vertical amplifier, a "delay line". This unit imitates the distributed electrical qualities (inductance and capacitance) of a transmission line about a block long (that is, after the test man has tinkered with it for a half-hour!). An electric pulse in a wire travels slightly slower than the speed of light (186,000 miles per second), so take a pencil and figure out how long the pulse takes to travel a city block, and you've got it,—or maybe I should say you've had it. Anyway, this delay gives the sweep all the head-start it needs.

The basic idea of the vertical amplifier is simple. A mere handful of electrons on the grid of a tube, like a handful of soldiers at a mountain pass, can control the movements of a whole army trying to get from the cathode to the plate. Thus a small variation in charge on the grid shows up as a much larger signal on the plate of the tube. This process can be repeated through as many tubes as necessary to obtain the desired signal strength. This process is very simple in principle, but gets complicated in practise because tubes don't handle very slow or very fast signals as efficiently as the ones in between. Making an amplifier pass a broad band of signal frequencies with faithfulness, takes some pretty fancy doing. If you doubt this, just take a good look at a Tektronix vertical amplifier. If the first one you see isn't complicated enough, then look at the 517.

We left Eddie on the fluorescent screen of the CRT, and I suppose that's as good a place as any. He was not hurt by the impact, and he will find his way back into the circuit without any help from us. I can think of but one point which remains to be cleared up: Why do we need a vacuum in these tubes?

Have you any idea how many gas molecules there are in a cubic inch of air? It would take a number having twenty digits to tell you. Every one of those molecules is an obstacle to electron-motion, and that's why air at ordinary pressure is a good insulator. In a radio tube these molecules not only get in the way, but they get smashed up literally, and the debris is tough to deal with; so we remove all the air we can (about 99.999% of it), then burn out most of the rest in order to provide Eddie Electron with space where he can practically put his foot in the carburetor without fear of smacking into something. We find

him far easier to handle at top speed on the open highway than when he is worming his way through downtown traffic!

Here we end the saga of Spinning Eddie, the electron with the magnetic personality, in the hope that those of you who work here, but are a little bewildered by it all, will henceforth be better equipped to answer your friends' questions about you, and what you do for a living.

### Epilogue

"Were do you work?"  
"Tektronix; why?"  
"Oh, yes. I've heard of that place.

Grown pretty fast, hasn't it? What do they do out there?"

"Oh, we make oscilloscopes and other special instruments to go with them."

"Osci—come again?"  
"We make oscilloscopes."

"I guess I heard you the first time. What are they good for?"

"Well, they give research men and service engineers a sixth sense, a sort of extra pair of eyes so they can see what's going on in the gimmicks they work with. An oscilloscope draws pictures for them with a spot of light on a screen."

"Oh, I get it. Like television."

"Something like that, only television is slow freight compared to a Tektronix oscilloscope. These things are fast."

"Tell me, just how does an oscilloscope work?"

"Well, it isn't very complicated in principle. We form a tight beam of electric charges, get them going real fast, then smash them into a chemical screen which gives off light wherever the beam hits. We apply the signals in such a way that they bend the beam, causing it to trace a pattern on the screen. Almost anything that varies can be put into electrical terms and revealed with an oscilloscope. That's about all there is to it unless you want to get really technical."

**Author's Note:** That last remark is intended to stop your interrogator cold. In the unlikely event that you meet some obnoxious character who wants to get technical, and drags you out beyond your depth, dig up a test man or engineer, and holler for help.

## Sec Swap on—East to West

Byron Broms is sending them East and getting them West in field engineering's secretarial swap. Eileen Searle goes East and understudies Margaret Johnson's job in the Bronxville office; Margaret Johnson arrives on May 1st to take a look at Eileen's duties at Tektronix.

## Down the Alley with The Tek Keglers

Tek's Tuesday night ABC league picked up enough sticks to finish the season on April 5 in 4th place in the Men's Commercial League. Bowling for Tektronix have been Don Ellis, Slim Sorenson, Dick Ropiequet, Don Calnon, Chuck Gasser, Roger Carter and Burt Eberly.

High for the season, for scratch score, was won by the Tek team with a high game of 992; high score for the season with a handicap also went to Tek with a team game of 1077. Burt Eberly won the season's individual high game with a 261 and got credit again with his handicap of 11 for a neat 272. Burt we might add had a little competition with Chuck Gasser's 256.

Individual sweepstakes were on April 12 and Tektronix came in with 2 out of 10 places. Don Calnon and Dick Ropiequet were Tek's stars in this event.

This team was the first bowling team to be formed at Tek in 1952 and has most of its original members. The scores serve as a warning to newcomers; be sure and check your handicap before taking any of these experts to an alley.

## Two Tek's To Travel With Neely Road Show

Hitting the road for three weeks will be Ed Bauder and Si Corn when they join the Neely Road Show on April 25 in Phoenix, Ariz.

In a caravan of four trucks and three station wagons for equipment and personnel, the entourage's first



Si Corn and Ed Bauder

major stop will be Phoenix for three days at the regional conference of IRE on April 27-29.

Major stops will be at Riverside, Corona, Sacramento, Berkeley, Palo Alto, Oxnard, Point Mugu, Inyokern, Hollywood, Culver City and Inglewood—all California points.

## Questions & Answers on Blood Program

Tek's United Fund-Red Cross chairman, George Roussos wished to contribute the following facts about the Red Cross blood program in order to clarify any questions which might exist in Tektronix employee's minds or of their friends and relatives. "Let's keep the following facts in mind," said George, "when next the Bloodmobile visits Tektronix."

### What are the needs for Blood?

Eighty-one hospitals located in 34 counties in Southwest Washington and Western Oregon use approximately 4,000 pints of blood, for civilians, each month. Gamma Globulin, used to fight polio, is still in demand and comes only from human blood. Locally, one pint of blood is used each 12 minutes.

### Who can be donors?

Everyone who is past his 18th birthday and who has not reached his 60th. Un-married minors must have a signed release giving parental or guardian consent. Minimum weight is 110 lbs. A waiting period of 12 months is required after childbirth. Qualifying medical check-up is given to all prospective donors.

### What happens when I give a pint of blood?

You first register at the Blood Center or Mobile Unit. A registered nurse then takes your temperature, tests your hemoglobin, checks blood pressure and pulse, and records a history of any recent illness that might affect your abil-

ity to donate. You drink a glass of fruit juice and then enter the donor room. The actual blood donation takes approximately five minutes, after which you rest for 15 minutes. The rest period is followed by refreshments.

### How often may an individual donate blood?

Every sixty days, with a maximum of five per year.

### Should donors eat before donation?

For a period of four hours prior to donation they may eat fruit or fruit juice, jam, dry toast or crackers, and may have tea or coffee with sugar, but without cream. Not fatty foods or dairy products. If you are hungry—do eat something before you come to donate.

### Must blood used by a patient be replaced?

WE DO NOT DEMAND REPLACEMENTS, BUT SINCERELY URGE that the supply be replenished by family or friends of the patient. Let's call it a Moral Obligation. Groups with active blood recruitment programs (Center or Mobile) have already met this obligation in advance.

### What is the cost to your Red Cross?

In this region it costs approximately \$5.00 to collect each pint of blood.

### Does the donor receive any record of his donation?

Yes, each donor receives a card, by mail, with a record of donation, blood type and Rh factor.

## Switchboard Switch--Dial 9, Dial Number

May Day was phone day at Tektronix as the newly installed dial system went into effect. Tek twosome's may now discuss household problems by simply dialing 9 and no problems except the usual (household, that is). Calls may be made to any prefix on the Portland exchange also without going through the switchboard.

The telephone directory was compiled by Bob Herren and shows that Tek is now strictly in the big time with index's, cross index's, and almost the yellow pages of Pacific Tel & Tel—don't think you are not classified, you are.

There are PBX instructions for: outside calls, dialing the switchboard attendant for information and assistance; placing long distance calls, dialing the Portland information operator, and how to report emergencies.

A section on emergencies contains detailed instruction on fire, police, illness or injury, power failure, electric power, plumbing and heating,

oil burners, cooling equipment and water.

One of the new innovations in the telephone conference that is now possible and will prove of special value to the field engineering and the engineering departments. Up to 5 locals may be connected for conference—or one outside trunk and our 4 locals—or two outside trunks and 3 locals. A conference, of course can be made up of less than the full 5 stations. To hold a conference, all that is necessary is to dial the red 0 and then ask the switchboard to make up the conference desired.

An alphabetical directory is then included with first the employees at Panelcraft; the complete employee list with those having a dial phone and that number, the other employees have attendant by their name which will allow them to be paged. The departments are then broken down and alphabetized under administrative, production, field engineering and distribution and engineering.

## Fishermen Form De-Liar Club

Fishing season opens on April 30 and with it a De-Liar Fishing Club has been formed at Tektronix with its purpose to stimulate friendly competition among Tek people interested in fishing.

Membership is open to all employees and members of immediate families. Each person who wishes to be eligible for prizes offered, contributes \$1; if two or more members of a family wish to compete, each pays \$1.

The contest is on as of April 30 and all contestants must register 24 hours before submitting a fish in competition. Registration fees should be paid to Harry Allison or Walt Schmidt (test).

Entries must submit to the following rules: fish must be of legal size and specie as outlined by the rules and regulations of the Oregon State Game Commission; they must be caught in Oregon waters, entries are limited to trout with lake and stream trout judged separately; standard of length will be a common yardstick; entries are to be viewed by two other contestants who will make the actual measurements of the length of the fish—length and specie will be recorded on a sheet of paper to be given to the prize committee.

Tek Talk will give information on the prizes next month; all registration fees will go into prizes with a monthly and a grand prize being awarded. Serving on the prize committee are Cletis Murphy, Archie Yergen, Clair Kidd, Carl Helmer and Earl Pahlka.

Other charter members of Tek's newest club in addition to the prize and registration committees are Byron Witt, Glen Parks, Omar Sommer, Tim Kirtley, Bob Strutz, and Pete Unger.

## Tiny Tek's

Jim (test) and Lois Cook weighed in Richard James at 10 lbs. and 7½ oz. on April 8.

## Traveling Tek's

Bill Webber and Jack Murdock leave on May 1st for the East. Chicago is first on the itinerary on May 2. On May 3, they will be on the field to welcome the Vollums who arrive from London. Washington, D. C. conferences will be held on May 9 and after that conference, Howard and Jack will be back in Portland.

Bill expects to return on May 23 after touring the Eastern branches.

\* \* \*

Elsa Maxwell, America's foremost party giver credits three simple words for making guests at her parties feel welcome and right at home. "When they arrive," says Miss Maxwell, "I murmur," "at last", and when they arise to depart I protest 'al-ready?'"

\* \* \*

## How Is Your Garden Doing

The Instruction Manuals department has now changed its name to Tek's Botanical Gardens. Specialties include: Easter lily cactus, dwarf palms, azaleas, fuschias, dwarf sweet peas, gloxinias, coleus and philodendron. Only specialist is Fred Tinker who is concentrating on Poaceae, Cyperaceae and Juncaceae.

## Apartment Dwellers Take Off for Farm Future Farmers Count Flora and Fauna



JANE and BOB FITZGERALD

And where do you start with the Fitzgeralds—they have so many plans—present and future. Biggest project at the moment is moving day when Jane and Fitz stop being apartment dwellers on Portland's east side and move to an old farm house with 5 bedrooms and 5 acres of land at Aloha. April 30 is D-day and all neighbors were pressed into service. Lending an interested and helping hand were Hallie Todd, Marybelle and Duane Rauch and Barbara Lawson.

Jane and Fitz have a 10 year plan for their house and acreage. At the moment an accounting system shows 27 filberts, 5 walnuts, 3 apple, 3 cherry, 1 of peach, pear, fig and plum trees—grapes and a multitude of berries which weather and harvest will identify. All other flora and fauna may expect the same treatment.

Fitz started with Tektronix as a janitor in 1948 as a part time job while attending Portland University and gradually worked in both the shipping and purchasing departments. Upo his graduation, he went to purchasing, the department he now heads. Jane came to the company in 1950 from California and on September 4, 1954—you guessed it, she married the boss. Jane leaves

Tektronix on June 1st for the new farm and an added purchase expected in July.

One of the main hobbies of the Fitzgeralds has been sailing and a membership in the Rose City Yacht Club. Fitz, Don Calnon and Hawkin Au jointly own a 21-foot sloop with an inboard engine called the "Aufinon" (a combination of the 3 owner's names in case you are figuring.) Most of its been work on the boat with fun interspersed. Fitz stated that they had entered two races; the first, they were disqualified for hitting a buoy; the second, they went around the mark and never came back until dark when they were towed home.

Both Fitz and Jane are ardent golfers and are two of Tek's mainstays in working out the annual Tektronix tournament. They have both been on the credit union committees—Jane on the board of directors and Fitz is currently on the supervisory committee. Fitz is also active in the newly formed investment clubs.

Any books on gardening, farming, livestock, children, "do it yourself" projects—the Fitzgeralds are in the market. We'll miss a Tek twosome at the plant.

## Don't Get Your Lines Crossed



Bob Herren explains to Maryellen Stevens and Hallie Todd the intricacies of the new switchboard operation which is now in effect at Tektronix. Number please!

## Credit Union: Questions & Answers

### 1. Does the Credit Union Finance Automobiles on Contract?

Yes. Special provisions are made for the purchase of automobiles. A flat per annum charge is added to the unpaid balance to be financed. On new, or current year, automobiles this is 4%; six percent per annum on used automobiles. Our loan protection plan covers unpaid balances on automobile loans.

### 2. For What Other Purposes Are Loans Made?

Any provident purpose, that is, any purpose which will benefit the borrower or help him save money. A few examples include: medical and hospital bills, refinancing debts bearing higher interest, education, clothing, emergency loans before pay day, automobile repairs, new tires, furniture, television sets, home improvements, vacations, insurance premiums, taxes, vacuum

cleaners, washers, dryers and many others.

### 3. Are Minimum Charges Made?

No "minimum interest" charges are made. Contract interest on automobiles will, for example, be pro-rated upon pre-payment.

### 4. What Assurance Have I That My Money Will Be Loaned Wisely?

You have the knowledge that all loans are made to fellow employees. You know personally your fellow workers who are officers in the Credit Union. These officers have their own money involved also and no officer of committee member may guarantee the note of a borrower. Officers, directors and committee members can not borrow beyond their share savings without action by the members at the annual meeting.

## West to East in Seconds--via Teletype

Newest gadget to be installed (somebody else's that is) at Tektronix is the typewriter printer just put in by the Pacific Telephone and Telegraph Co. This will give a more efficient and direct connection with Bronxville.

With the typewriter goes a direc-

tory of all the stations in the country and a direct connection is set up between the two typewriters. It is set at a maximum of 60 words per minute which allows 180 words in three minutes or all of this can be sent at the same cost of a wire of 10 words sent by Western Union.

## Inside Scoop On A Scope



Joe Vistica surveys the parts and pieces of the 524 before the job of re-assembling all over again. What's wrong with it?—somebody dropped it from a building. Just another of the somewhat unusual problems that Tek's customer service department faces as a daily routine.

# TEK TALK



## Deadline Demands Pressure Print Shop Operations For Catalogue Runs, Advertising, Instruction

Smack against the deadline in answer to the needs of more departments than any other at Tektronix is the print shop. Biggest pressure point is the semi-annual printing of the catalogue which must be ready for the IRE show in New York in March and the next great push in August, the West Coast Electronics show. Around these two efforts are the work of the engineering and production departments who must wrap up every last detail and then give it to printing with only one word — "must".

Printing a catalogue requires an order for 3½ tons of paper for the 100 pages of Tek's shining scopes plus the cover for a run of 8500 catalogues. In between times, the advertising department in response to a plea from field engineering usually has some special mailing piece in the works. Right now, the print shop is engulfed in a mound of paper for a run of 30,000 mailing pieces on the 570 which is being printed in 3 colors. Each color demands a separate run as only one can be printed at a time.

Coordinating with the print shop is the photography department of Ed Egan, Paul Wright and Al Croeni. A plate—picture, type-set in its proper place and a headline—is photographed after reductions are made and then this is given back to the print shop for the printing run on the offset press.

Tek's print shop comes well equipped. For a large advertising run of material, the Harris press is used. There are two multilith presses which run off all the office forms, letterhead stationery, invoices, engineering diagrams, packing slips, etc. One letterpress, the Meihle, is used for printing all the instruction manuals and text material. (Letterpress



In the west-end of the print shop locates Ken Walling, department head of this rapid-growing (in many ways) organization, and Gisle Borlaug who is their Linotype operator.

is printing from the type and this is not photographed.) An auxiliary unit is the C&P which is a platen letterpress and is used for such jobs as the Tek mailing tags etc. Press operations are in charge of Harlow Loucks who is also responsible for the page make-up in all instruction manuals and serves as the print shop's chief compositor. Running the presses is the responsibility of Bob Livingston, Doug Prouty, Rennie Brown and Kal Horine.

The print shop also has a complete bindery section. In the new space arrangement, the capacitors space has now been given to the bindery. It is here that all material is collated, folded and is prepared

up to the point of addressing and stuffing when it then goes to the advertising department. Bindery is headed by Ernie Plapp who is aided by Marvin McClure and Bill Herr.

Running the linotype is Gisle Borlaug. It is Gisle who makes up Tek Talk each month for its run of 1000 copies. In charge of deadlines or heading up printing is Ken Walling. Work is constantly being done on the catalogue; there are 20,000 manuals each year, and in Tektronix, there are 300 different forms used throughout the plant. Printing uses one ton of paper per month and in anybody's language that is a lot of reading material.

## Thirty Teachers Visit Tektronix For Business-Education Exchange Event

The teachers came to Tektronix—education was reversed as our firm along with 102 sponsoring firms in the Portland area played host to the staffs of the Portland public schools on May 4.

Upwards of 2400 teachers assembled at Benson Polytechnic school where Tektronix sent a Grayline bus to pick up their quota of 30 high school and elementary instructors who previously had asked to be assigned to our plant. Arriving at Tek, they were immediately given the Hollywood treatment with Ed Egan who took pictures of them, then and throughout the day. Ushered into the conference room, they were given a coffee break and a briefing of the day's schedule. The group of 30 were divided into groups of 3 and each was assigned a guide for the plant tour.

Tek's 'information please' squad consisted of Derrol Pennington, Earl Scott, Bob Fitzgerald, Byron Broms, Bob Davis, Jack Day, Will Marsh, Dick Rhiger, John Taylor and Jim Morrow. Alerted as shock troops were Dick Ropiequet and Don Ellis in the event of illness or absence.

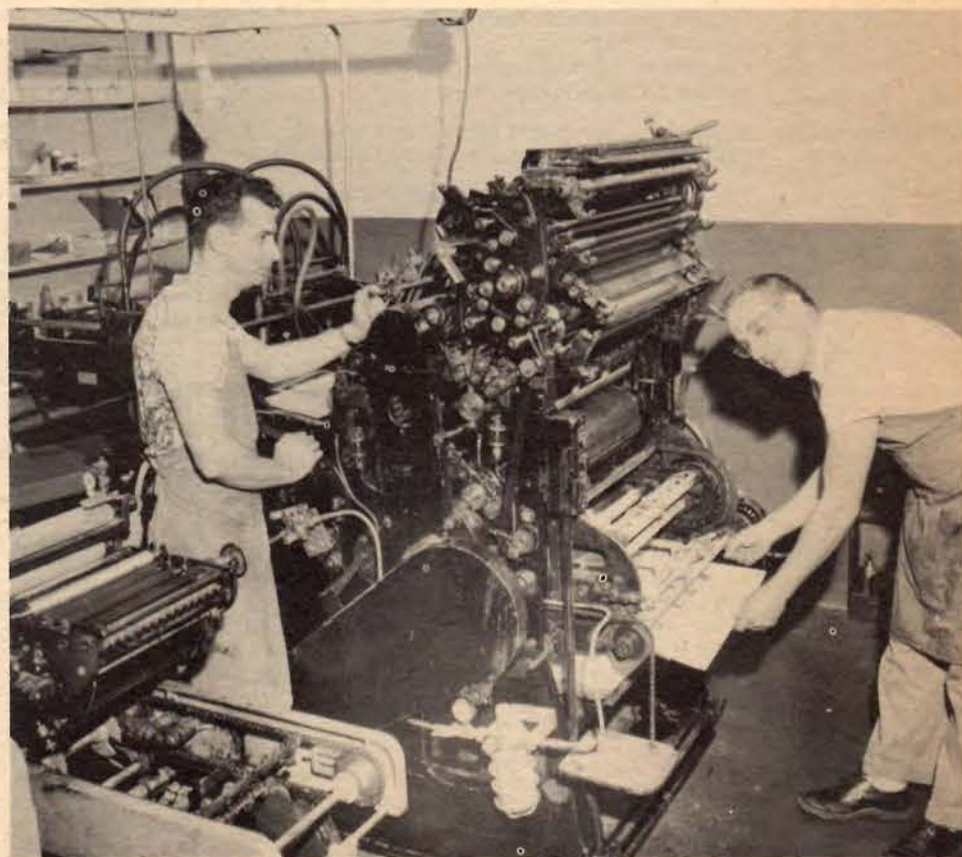
Completion of the plant tour found the teachers assigned to private cars and taken to Berg's Chalet for a Tek sponsored luncheon. Next on the agenda was the plant conference room where Dick Ropiequet told them the engineering story of Tek; Byron Broms gave the marketing and field engineering side of our products; Bob Davis confined his remarks to production and Don Kepler gave the personnel approach used at Tektronix. Each speaker allowed a question period following his remarks.

This concluded Business-Education day and all of the teachers were then chauffeured back to the starting point at Benson.

An enthusiastic reception was given Tektronix judging by several letters that have since come in to the personnel office. Our tour consisted largely of science and physics teachers who had the opportunity of selecting Tektronix well in advance of B-E day. Each teacher received a personal letter from Bill Webber inviting them prior to the visitation. This plan was first started in 1951 and marks the second year that Tek has participated in the plan. Next year, Tektronix will visit the schools who will show their role in this guarantee of school-community cooperation.

Tektronix employees and the guides who were assigned for this particular plant tour are to be complimented for their hospitality to our guests. A supervisor in industrial arts in the school's curriculum division wrote the following comment. "In our day of modern high-speed industrial practices it was a pleasant experience to observe a company who recognizes the value of an employee's individual skills, initiative and differences. Your company is to be congratulated for the high morale of your employees and cleanliness of your entire plant.

A high school science instructor wrote and thanked us for our frankness in answering questions, our willingness to share ideas and opinions and stated that these were the real ingredients that make good public relations.



Pictured here in an overall shot of the print shop, are from left to right; Harlow Loucks, Rennie Brown, Kal Horine, Bill Herr, Ernie Plapp, and Marvin McClure.

The job of running the 17 x 22 Harris offset press belongs to Bob Livingston and Doug Prouty (on left). These two are not usually envied at catalogue time!

# Tek Talk

Published by Tektronix, Inc., 9450 S. W. Barnes Road, Portland 7, Oregon, by and for its employees. Published the first pay day of the month, the 5th, or nearest working day. Printed by Tektronix, Inc.

## A Forward Step....

Business-Education day is a great step in the close cooperation of the school and the community working together. Originating in the mid-West, Portland first inaugurated this plan in 1951. One year, business went to school and the next year, the school went into the business community. Each found an opportunity to discuss mutual problems which hitherto had been regarded as separate fields.

Results have been apparent from the first. Teachers found theories in application; businessmen learned how the modern school methods were coping with their problems and how to use school records in employing new workers. Administrators often received new ideas for vocational courses or the revamping of existing courses. The students in turn gained most of all as they were made aware of the business opportunities and how best to prepare for them.

B-E day is one of our best examples of democracy at work and as such should be congratulated.

## Casting With Worms And Flies

Biggest entry to date for prize money in the De-Liar fishing club is Clair Kidd's entry of a 17 5/8 inch trout caught in the Deschutes on worm bait on May 7.

There is still time to join Tek's club which now has 35 members and is growing every day. Membership cards are being issued by Walt Schmidt or Harry Allison. Fees may be paid to Ernie Plapp in the engineering building or Tim Kirtley in the shop.

Women members who now pose as a serious threat to all competitors

in the field are Donna Wojcik and Helen Ross.

Panel Craft members who came over from Portland's East side to enter are Gordon Bennett, Joe Jasper and Herb Rustum.

Harry Allison's catch of a steelhead off of Sauvies Island that was 26" in length still has the club talking.

Ernie Plapp seems to be doing well on the Tualatin with the limit reached every time. As yet, Ernie has not made an entry as he wants the really big one to cop the prize.

## Membership Requirements Stated For Tek's De-Liar Fishing Club

### RULES AND REGULATIONS

**PURPOSE:** To coordinate friendly competition among Tektronix people who are interested in fishing.

**ELEGIBILITY:** Membership is open to all employees of Tektronix (Men or Women) and the members of their immediate families; Each person who wishes to be eligible for the prizes offered contributes \$1.00; if two or more members of a family wish to compete, each pays \$1; Contest begins with opening day of spring fishing, April 30, 1955; Contestants must be registered 24 hours before submitting a fish in competition;

**REGISTRATION:** Registration fee should be paid to Harry Allison or Walt Schmidt (see them in Test Department);

**ENTRIES:** Fish submitted must be of legal size and specie as outlined by the Rules and Regulations of the Oregon State Game Commission; Fish must have been caught in the waters of Oregon; Entries are limited to trout — lake trout and stream trout will be judged separately; Standard of length will be a common yardstick — not a "Fisherman's Rule" with distorted calibration; Entries are to be viewed by two other contestants who will make the actual measurements of the length of the fish. Length and specie will be recorded on a sheet of paper to be given to the PRIZE COMMITTEE;

**PRIZES:** Monthly prizes and final grand prizes will be awarded. All moneys collected as registration fees will be returned to you in the form of prizes. Prizes awarded will be determined by the PRIZE COMMITTEE. The following men have offered to serve on the PRIZE COMMITTEE:

- Cletis Murphy
- Archie Yergen
- Clair Kidd
- Carl Helmer
- Earle Pahlka

**NOTE:** Fish brought to the plant for eligibility and display purposes can be stored in one of the refrigerators — however, the fish MUST be enclosed in a tight plastic bag to avoid odors. Fish found outside of a plastic bag will become the subject of a dinner at Mrs. Brown's house!



Great interest in coffee breaks and the lunch period in the pastry section. Tek is trying out a new bakery and before we even had a chance to make up our minds discovered that they were the winners in the baked goods display at the recent Pacific Northwest bakers' conference in Portland. Jenkinson's Pastry Shop in Multnomah is our new supplier and in this recent show they won four gold awards for outstanding pies, cake doughnuts, layer cakes and Danish pastry. Mmmmm!

We certainly want to comment on the sunburns — even TANS seen around Tektronix lately. Just goes to show what a little Oregon sun can do although we have a strong suspicion that there are a few sun lamps at work on the side.

What about 'the one that got away' — 'tis rumored that Bob Guthrie hooked the biggest fish yet for the De-Liar's derby but hadn't gotten around to registering.

### Out of State

Just before taking off for Bronxville, Gerry Kraxberger was feted by test and became a member of the fishing club at the same time. Now the De-Liars are worried lest Gerry perfects his skin diving to the point of unfair competition. (Relax, fellows, the fish has to be caught in Oregon.)

What is a "kitty-hawk"?

Last bowling club dinner of the season was held for the members of Tek's bowling team and their families on May 20 at the Three Star Restaurant.

Mighty happy these days are the Tek employees on swing shift in test. As the number dwindled to 5, the long awaited shift arrived. Test reports that they now join the the sleepy-eyed crew on days just as bright as the rest at 7 o'clock sharp.

### Higher Mathematics

If you think you have problems, look at the export problem where you speak in terms of kilos, not pounds. In case you are interested the way you convert pounds to kilos is that 1 pound equals 6.4535924277. It's in the instruction book, honest!

Planning a trip and a two week vacation in June is Martha Hanson (crt) who will headquarter in Greenfield, Iowa to see her father, brothers and sisters.

Visiting Silver City, Idaho, one of the famous ghost mining towns of the West was Rose Duane (newest member of crt) and her family over Memorial Day.

Cruising down the river was Bob Herren's idea for any nice weekend — Memorial Day found him doing just that in his boat on the Willamette. Catch any fish?

### JUST NOSING AROUND

Gloria and Sybil (advertising) have approximately 22,000 names on file in mailing.

Gals in transformers make 110 different kinds of coils and line-amplifiers.

Ceramics department is growing faster at present than any other department.

Familiar face: Art McFarland has been foreman for all the electric installations since Tektronix started building.

Nile Thayer uses more movie film than anyone else at Tektronix. Lowest amount of any paycheck this

month was credited to Jane Fitzgerald with a take home pay of \$ .45 — anybody else beat that!

We would never have believed it but Bill McCord is wearing his new cowboy boots to mow the lawn.

Norma and Tom Caufield have just bought a plow attachment for the Gravely tractor and they live in an apartment. ('Tis rumored that their son, Larry does summer work with it but it certainly poses a nifty storage problem.)

Bob Duhrkoop claims his new 'flat-top' haircut would do a swell job of polishing floors. Looks good, boy! Duncan Bergeron has a new Volkswagen.

### Prison Bars

Biggest sensation in crt was in Marge Earlywine's pie the other day. Seems Marge wound up with the law and a traffic ticket and when she bit into her piece of pie found it complete with a file.

Fitz and Jane's moving day party was done in record time to their new farm so a full day of play day antics ensued. Marybell Rash we understand has been hiding her archery prowess from everyone but now is all set to be the first entry in anybody's tournament.

We missed Irene Garvey for a week last month but are glad to report that a very sick child is off the ailing list.

Marybell Rash's daughter has successfully recuperated from a suspected attack of polio which fortunately wasn't polio.

Ida Smith (shop) left the middle of May for Detroit to pick up a new Buick. This also coincides with a 3 week vacation and now we are waiting to admire the new set of "wheels".

### Clammer's Dilemma

Too bad we weren't all at the Megler Ferry down by Astoria as Norma and Tom Caufield's clamming expedition almost made the ferry. With 13 in the party, they ordered breakfast and then checked the ferry schedule. Both arrived at the same time but a moment's hesitation was too much, armed with a 'stack of hots' in one hand and omelets in the other, they just missed. Breakfast was then enjoyed and the next ferry found the entire party getting their limit of clams at Long Beach in one of the year's low tides.

Joan Cramer is now busy planning her two week vacation trip to San Francisco and Los Angeles.

Shop's Les Purcell is another Tek who is California bound for his vacation; Les took off in mid May for 12 days in San Diego.

### No Fish Stories

Fishermen taking off on Memorial Day weekend with promises on limits and entries for Tek's De-Liar Fish club were:

Clyde Feitush to Crane Prairie.

Tom and June Ruhl and Bill Johnson to Crane Prairie. (We understand that Tom is also an expert at fishing for outboards in the Little Deschutes.)

Waldo Johnson takes his tackle to East Lake.

Marge Earlywine is bound for a fishing expedition at Lost Lake.

### Calorie Counting

Crt is eating again and such festivities. Emma Lanctot's birthday

party was the occasion for 23 individual cup cakes whipped up by Marian Peterson and a special birthday cake made by Martha Hanson — there was also ice cream.

Martha Hanson then celebrated her birthday and Eloise Helmer made 23 individual chocolate cream pies topped with whip cream to celebrate the day.

Ed Bauder and Si Corn announced that they planned on only recuperation for the holiday weekend as they have just returned from the Neely Road Show.

Visiting husband, Bill Norton, Ruby (ceramics) with her two children, Karen and Billy went down to Eugene in mid-May for a long weekend.

Spending a two week vacation on building his house was the accomplishment of Steve Hughes (shop) as he returned this week.

Welcomed back to the drafting department was Henry Bahrs who is still convalescing from surgery in mid-May.

George Roussos has advice for all prospective tourists — check hotel reservations before arrival. George in his new rocket ship (the 88) plummetered up to Spokane on May 20 for his church's choir federation meeting of the western states, Alaska and Canada. Upon arrival, he discovered that it was also Lilac Festival time in Spokane and finally found space barely within the city limits at 5 o'clock in the morning.

Enjoying a trip to Arch Cape for the 3-day holiday were Rosanna and Ed Archer and their small son.

Tommy Thompson (engineering) moved into a new house on NW McLain Way in Cedar Mill Park. The moving-in process was all polished up over the long weekend and more storage space was added in the garage and the last carton was unpacked.

### Commuter's Special

Longest commuting distance in the planat has been Will Marsh's record in engineering who lived according to best reports two trees this side of Mt. Hood. Not quite, but a 50 mile round trip daily. The Marsh's moved into the Tualatin Heights area in mid-May and according to Will ("you know, this is an exaggeration") moved 14 pieces of furniture and 198 cartons. He is closely followed by Gene (Admiral) Single who commutes a bare 35 mi. between Tek and Mt. Scott.

A children's holiday was Laura Lusk's plan for the weekend of May 30th as festivities got underway for a group of high school juniors who planned a bon voyage party for a classmate going to Europe.

Off to the beach for the weekend was Marian Peterson (crt) with De-Lake as her destination. Barbara and Gerd Schwerin also made the Oregon Coast their holiday headquarters.

What's happened to the hiking club? Spring days and Oregon sunshine are a wonderful combination.

Ginny Kraxberger has been granted a leave of absence to join Gerry who was temporarily transferred to Bronxville last month.

Returning to ceramics after a leave of absence was Carla Bell.

## Secretarial Shift Goes East With "Round Robins" For the Field

Biggest pun of the week came from Margaret Johnson, Tek's secretary at Bronxville who visited our home office from April 24 to May 27 — she stated that she was now "Oregon-ized".

Margaret's indoctrination took her over most of the plant with special emphasis in the front office, production, and field engineering. She stated that her experience had been invaluable from the standpoint of the operation of the front office to the field office. Her first project on arrival in New York is a round-Robin letter to all field offices on procedure, mistakes and errors that now can be avoided and shortcuts that can be made.

Humble at her first introduction to Western hospitality, Margaret is taking back to New York many a memory of an Oregon scene and an Oregon friend. As this was her first trip west of the Mississippi, her first view of the Pacific came at Cannon Beach and Ecola Park. The Oregon coast was one of her high points as she feels that it differs so radically from the Jersey coast (which is the average New Yorker's trip to the shore). "Here every vista is different", she said.

An ardent fisherwoman, Depoe Bay was another travel point but they were unable to go out as that was a weekend when small craft warnings were posted. A trip to Mt. Hood took another weekend. Margaret also took a Grayline bus tour up the Columbia River highway to Bonneville and the Vista House. (And cannot get over the contrast



in prices West over East. For a 5-hour bus tour with all interest points covered, the fee was \$4.05; this did not include lunch at Multnomah Falls. But in the East, this fee would be at least double.)

Margaret felt that plant operation in the West was entirely different from the East. Here, she stated there is a complete absence of pressure, or deadlines — everything seems to be on the honor system; yet the production figures compare as well as any in the East.

During her month at Tektronix, Margaret's home has been at the Hungerford Hotel. (We wish we could have offered her the Gramatan, which every Tek employee knows so well after a trip to Bronxville.)

### Publication Racks

This month we have some new publications and some that you have liked well enough for repeats. They are:

"The Human Angle" — How "Sympatico" are you?

"Your Happiness" — How it effects you and others.

"Seven Ways to Job Success" — Even successful people can enjoy this.

"Food for Families with Young Children" — A balanced diet is a must.

"Thank You" — Dale Carnegie's book and a repeat through requests.

"Diet" — Another request and a re-order.

Any suggestions any Tek employee has on publications please check with Personnel as we will try and see that they are supplied.

### New Faces

Welcomed to assembly are Betty Punzel, Helen Shaver, Emma Thomas, Nancy Pratt, Beverly Christensen and Vera Collins.

Cables boasts two new employees in Eula van Veen and Grace Hamlin. Getting the scopes out and an addition to the shipping department is Roger Feigum.

Jack Stoll is new in Test; and Rose Duane, in crt.

### We Will Miss

Margaret (Smith) Marshall has left assembly to join her husband who is now in California.

Leaving test is Ken Davenport who is presently taking an engineering job with International Business Machines.

Assembly loses Irene (Coppernoll) Sommers who leaves to join her husband.

## Clubs Merge As "Tycoons" Shift

Considerable progress has been made by "Investment Clubs of Tektronix" since the report in May Tek Talk. Most spectacular was the liquidating merger of the group of test and shipping employees that has partially combined with other clubs. In simple words, some members of this group have joined into others of the six clubs now active.

Three of the clubs are still unchristened, leading a nameless life. The "Fortune Investment Club", the only one with a name at last report, is still leaderless, their election to be held at the June meeting.

Joining "Fortune" with a name is the "Beggars Dozen Investment Club", its eleven account members having elected Fred Tinker president, Wayne DeVaul vice president, Audrey Duyck secretary, and Henry Scott treasurer-agent. Don't let this concentration from Technical publications overwhelm you, Wayne.

Emil Evans, president, announced the name of his club "The Wall Street Adventurers". His officer associates were announced in last month's Tek Talk, along with those of Hawk Au's nameless congregation.

Dave Spinks was elected "Prexy" of another founding, with Harold Edmundson VP, Ed Kiepe secretary, and Bill Muessig, who recently rejoined us after a tour with the army, as treasurer-agent.

Bob Fitzgerald became president of his club, with Bud Siegel "veep", Marybelle Rash secretary, Carl Helmer treasurer, and Paul Tripp agent. They are also having trouble thinking of a name.

Any of you still interested in learning how to invest wisely in our American economic system who do not find a haven in one of these six clubs, please see Don A. Ellis. The way is now paved, making it easy to form new clubs in the footsteps of these pioneers.

### Slip is Showing

An error was made by the credit union committee in the May issue of Tek Talk in which it was stated that a flat per annum charge of 4% on new cars is charged. The correct charge is 3/4 of 1% per month on the unpaid balance. The credit union does not make any flat rate per annum charge.

## Traveling Commentaries On The Field

By Bill Webber

All of our offices are nicely located, pleasant places to work. Any similarity between our Baltimore office and a greenhouse in Jean O'Brien's green thumb. Am informing Dal that he should award Jean the contract for supplying each of our new offices with plants. Since the plants may be hard to ship by parcel post or rail express, perhaps Jean would prepare an article for Tek Talk on how she does it. Just what is the secret?

Quite a coincidence in Cleveland as Janice Reynolds became acquainted with the new neighbors next door to our office. They are the newly established U. S. headquarters for a Canadian firm, Welwyn. Who was their very first customer shipment from that office — why Tektronix, Inc. at Portland, Oregon. It is sure a low blow to Tek that Janice's husband was transferred with Boston Gear to a town where we do not have an office now nor is one ever contemplated. We all hope her husband's employer will show greater discretion in the future and pick a location for Mr. Reynolds where Tek can again employ Janice.

That Betty Pray gave me trouble — after I promised to cover up for her back at Portland, she wrote the news here before I got back — that she hasn't quite been able to adjust herself to the requirement of wearing shoes in ultra-civilized Boston. There are things about Betty, such as night swimming and stuff, but I guess she had better tell about all that when she gets here. In line with my agreement to cover up back here for Betty — any rumors, gossip or stuff you may have heard just aren't true. Incidentally, I urged Betty to send her picture back appropriately attired in the current rage of Boston — Bermuda shorts, long socks and low sneakers. She didn't sound a bit cooperative, but then maybe during her vacation in July she will visit the plant properly attired in the current rage of Boston — Bermuda shorts, etc.

Greatest regret of the trip was not getting to Philadelphia to meet Dor-

othy Bennett, so that I would have met all of our people. Second greatest regret was not getting to our Dayton office.

The standards our girls in our offices have set are surely high. We are indeed fortunate to have such an outstanding group of individuals in all of our offices in the east acting as backer-upers for our field engineers.

If any of our people here think the life of a field engineer is easy, this is wrong. Even though it isn't easy, it seemed as though their way of life is interesting, challenging and rewarding.

### Most significant comment —

While visiting our major competitor — I mentioned that I personally have complete faith and confidence in our Tektronix employees collectively as a group. Our competitor's comment was, "I wish we could say the same thing about our employees."

## Decorator Debut



A new possibility for the production line has been unearthed in Boston. The inventive minds of Vic Fricke ably assisted by Betty Pray have now solved the subject of defective CRT's.

The pictured "pride and joy" took Vic less than an hour to assemble and cost a grand total of \$5.38 for the necessary fixtures and the shade. Betty found a shade in a black and gold check and states that it blends harmoniously with the black spiral stripe and yellow Tektronix emblem on the tube.

Much comment from visitors to the field office has resulted. Anyone caring to place their orders with the Boston office for the very latest in electronic lamps will receive full instructions. Vic and Betty have decided to patent the process in order to discourage rival electronic firms.

### Tiny Tek

The Howard Daniels (shop) on May 2, weighed in a small baby girl, Teresa Ann.

To the Cal Smith's (supervisor in assembly) on May 11 came Melissa Jean.

Drafting took a bow and also cigars from Lloyd Olson when Terry Douglas arrived on Friday, the 13th.

April 29 welcomed a new Tek addition in Russell Roy Tripp (purch.) who weighed in at 7 pounds.

## Educational Leaders in Science Departments Tour Tektronix on B-E Day

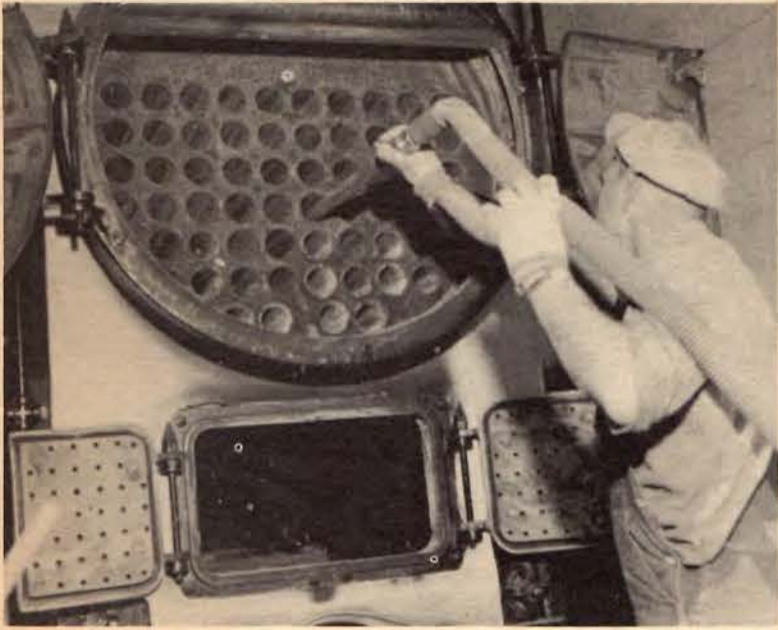


With Earl Scott as a guide, the teachers toured the transformer department. Here they pause to watch Jane Tomkin solder wires in the amplifier lines.



Guide John Taylor with his teacher threesome in the shop where Harold Miles shows off the silk screen work.

## Spring Housecleaning



Art Breazile "goes to town" on the 60 flues with this new gimmick he is working with. Art says this vacuum hose with a scraper on the end has the old hand-scrape method beat all to pieces. — We see your point!

Caught in the act on the first sunny spring day were Art McFarland and Art Breazile cleaning out Tek's heating plant. This consists of 2 oil boilers of 40 horse power each—and of all things they were using a vacuum, just like any housewife.

Each boiler containing 60 flues had to be scraped by hand formerly

which was a long tedious process. Tek had a vacuum and now has procured an ingenious device called Add-A-Tank. This results in two garbage cans of soot. Vacuuming has to be done every two weeks in the summer and more often in the winter—just to keep us clean.

## Blood Bank Accounts Necessitate Regular Giving For 'Saving' Demands

Yes—you did save my life—and the day you saved my life came along much sooner than you thought. For I'm the human wreckage you saw at your street corner yesterday—the fellow who lost so much blood. And I needed that blood too! For my body needs a big supply of blood to rebuild all of the torn skin and tissue. Fortunately for me, many of you contributed blood to the Red Cross Blood Bank—the blood flowing into my veins from a nearby bottle came from the Blood Bank. And this bottle is not the first—but the fourth—all flowing to help me overcome shock and tissue damage.

No, we don't like to talk about blood, accidents, or surgical operations—these subjects make us a little squeamish—but when life, death, or health depends upon a pint of blood, we'd better take a good look at the problem.

Your regular contributions to the Blood Bank help maintain a stock of fres blood ready for use when needed. Up to the present time, the Red Cross Blood Bank has been able to supply blood on demand. Once in a while a four or five hour delay as been caused because the "Bank" is out of stock—but patients have not suffered because of the lack of blood at critical times.

Each pint of blood contributed by anyone from Tektronix is added to our Blood Bank Account. Blood is available not only for employees of Tektronix and their families, but also for their close friends. If you receive a transfusion, you do not pay for the blood itself. You or your health insurance are expected to pay a medical fee for the transfusion. In the Portland area, the fee right now is \$10.85 per pint.

Here we'd better stop and discuss a couple of "cases" which have soured many of you with the whole Blood Bank system. These cases usually involve difficulties in obtaining blood from our Blood Bank Account. In both cases we investigated, the difficulties were caused by misunderstandings between an employee under stress and an inexperienced volunteer helper of the Red Cross—a problem of communications.

Besides making blood available when needed, the Red Cross has this responsibility: to see that the pint of blood you contributed is not needlessly wasted or misused—and to see that some unscrupulous individual does not make a profit from that blood. Therefore, the Red Cross is understandably cautious. So here's

how you obtain blood when needed:

1. Be sure to tell the hospital office (and your doctor) that any blood required will be supplied from our Tektronix Blood Bank Account.
2. Or better yet, if you have time, ask Irene Garvey in our personnel office to make arrangements with the Red Cross. Irene serves as Chairman of the Tektronix Blood Program and should know about any difficulties you may have in obtaining blood.

For those of you who have been pressured to replace blood used by relatives or friends when you were sure the blood should have been supplied from the Tektronix Blood Bank Account, we would remind you that blood is so scarce that you really can't blame the Red Cross for attempting to keep the Blood Bank well stocked.

Every good story has a point—this story is intended to persuade those of you in good health to help by contributing blood. The Blood Bank needs sustaining blood—a few pints a week—rather than a large quantity of blood all in one week.

**We'll see ya down there!**

## Picture Notice

Any photographs or snapshots used in Tek Talk for the Junior Parade, company events or special shots will be returned to their owners by the personnel office over Icel Schroeder's desk.

Tek Talk welcomes all snapshots and pictures but from Ed Egan's department come a few suggestions. Any snapshots or portrait prints may be reproduced but in the case of 'snaps', sharp originals reproduce the best. Identification should be made in each case on the back of the photograph: Subject; in the case of Jr. Parade, their age and name; and write it with pencil lightly as a heavy impression shows on the face of the print. And please, no tattered prints, as if a crease is made in the photo, it will again show in reproduction.

Transparencies and colored prints are not suitable as the reproduction is too complex and too costly.

Don't forget to pick up your prints in personnel.

## Credit Union: Ques. and Answers

1. Is there any provision against losses from bad debts?

Yes. All entrance fees, and 20% of the net earnings of each year (before the declaration of any dividend) are set aside as a regular reserve. Since the Tektronix Federal Credit Union has been organized, approximately \$500,000 has been loaned and we have never suffered a loss from a bad debt.

2. Do we have a Life Savings Plan?

Yes. Share savings of all members are included under a group life insurance plan, which, in effect, doubles the investment up to \$1,000 in shares of each member as a death benefit.

Group life insurance is subject to the following provisions:

1. 100% coverage on money deposited before the age of 55.
2. 75% coverage on money deposited before the age of 55 through 59.
3. 50% coverage on money deposited before the age of 60 through 64.
4. 25% coverage on money deposited before the age of 65 through 69.
5. 25% coverage on babies account until he reaches 6 months, then 100% coverage.

3. How much am I charged in interest on a \$100 loan?

1. Interest and payments on a \$100 for 6 months would be \$16.67 per month and an interest payment of \$ .50
2. Interest payments of 50 cents per month are the same regardless of the time payment. Installments on a 12 month basis would be \$8.33; 18 mo., \$5.55 and 24 mo., \$4.16.

## Tek's Junior Parade



Hildred Schmidling's (transformers) family consists of; Larry—15, Daniel—11, Sandra—5, and Billy—2½.



Russ—Tek's Traveler, and small brother Dick. Sons of Bob Polits engineer.



Joe Vistica's threesome are: Loie—2, Karen—21 mos., and Lynn—(just getting by the censors)—6½ mos.



Here we have David and John Belles with what every mother dreads—, before and after haircuts.

## "Save or Borrow For A Brighter Tomorrow"

TYPE	AMOUNT	Interest Rate on Unpaid Balance	TERM	SECURITY	REQUIREMENTS
PERSONAL	Up to \$400 or \$800 with Co-Signer	1%	24 Months	—	Member Co-Signer must Show Responsibility
SHARE	Shares Owned	¾% on loans over \$100		Shares	Member
HOUSEHOLD FURNISHINGS or APPLIANCES	Determined by Credit Committee	1%	24 Months or	Chattel Mortgage	Member Fire Insurance
1954-1955 AUTOMOBILES	¾ High Blue Book Value	¾%	36 Months on	Title and Chattel Mortgage	Member Title Fee Full Insurance Coverage
1953 or OLDER AUTOMOBILES	¾ High Blue Book Value	1%	Loans over	Title and Chattel Mortgage	Member
MEDICAL or EMERGENCY	Determined by Credit Committee	1%	\$1,000	Approved Collateral	Member



Tektronix's Bus arrives at the plant with thirty science teachers for Portland's fourth annual Business-Education day.





## Tek's 'Summer School' Force Is Back Until September School Bell's Toll

Tek Talk salutes our summer working force. This year will mark the initial year for some of our college students and we are happy to welcome back the "veterans".

Most of our summer employees are majoring in science and engineering. As such, our work here represents an activity that is closely associated with their chosen career and they may elect to join us after graduating from college.

Tektronix's policy, as exemplified in part by the projects of our Foundation, has been to support science, research and education. In our policy of summer employment we are happy to give additional encouragement to science and education by providing summer employment for students and teachers. In addition we are proud of the contribution that our summer employees make while they are here and wish them continued success and achievement in their studies.

George Dodds who graduated from Taft high school this spring and came to Tektronix originally to find out information on the Westinghouse Science Talent Search program. This fall George will go to the University of Kansas on the start of a four year scholarship won from General Motors.

Glen "Doc" Lee is back from Harvard looking another year wiser.

Harry Elliott has one more year at Walla Walla and has one great change of plans, a wedding in September.

Majoring in physics at Reed is Bob Rieks. Bob is also a rifleman and is in quest of competitive shooting.

### Starting at OSC

Lee Riechel left Tek last fall for his first year at OSC as an electrical engineering major.

A recent graduate of Lincoln high school is Dave Dierdorff who starts electronic engineering at Stanford fall term. Dave proves his versatility by appearing with the Portland Civic theater—his most recent play was "Time Out for Ginger".

Ken Moore has his first year at Oregon State complete and will go into electrical engineering fall term. Orvin Olson starts his junior year at the University of Portland after a summer at Tek.

### Reed Students

In our training department we

have Frank Douglas and Don Beldin from Vancouver, Washington who are juniors at Reed College. Larry Weeks and Don Foster from Portland also attend Reed. This foursome form a part of the membership of the Rumford Society D' Alembert chapter.

Bob Matthews, brother of John Matthews in modification, is a new graduate from Franklin Hi and will enter Washington State this fall. Murlan R. Kaufman is another grad from Franklin and has a scholarship at Oregon State.

Finishing Multnomah Junior College this spring, Frank Zarkowski enters Washington State this fall.

Fresh out of the navy is Tom Sly of Portland. Another Portlander, Jay Hoffman is debating on the problem of army vs. college which will be decided at summer's end.

### At the University

Attending the University of Oregon this past year, Bill Hardin will remain throughout winter term at Tek.

Studying for the priesthood at Mt. Angel Seminary is Gerald Eastman's plan for fall.

John McAllister will graduate from Vancouver high school next year. Most unusual hobbyist is Jim Browne who collects used money (this is a hobby?).

Newly graduated from Cleveland Hi is Dave Skelton. James Long is another electrical engineering major attending Portland State.

Larry Bass will enter Oregon State this fall in electrical engineering and has just graduated from Multnomah Junior College.

Welcomed back to the "veterans" is Tommy Monnaghan who won the grand prize at the first Northwest Science Exposition which is sponsored by the Oregon Museum of Science and Industry—one of the Tektronix Foundation's projects. This will mark the beginning of Tommy's third summer at Tek and he will be a junior at Stanford fall term.

If any of our students have been missed, this edition of Tek Talk went to press before we received your name. We hope that it is an enjoyable summer at Tektronix and it is certainly a pleasant task to welcome Tek's new additions and say "hello" again to the veterans.

## We're Proud of This Assembly Line



Lining them up—all 65 of them—and we might one of Tek's largest single shipments. Will Marsh say 'real proud are 65 scopes on their way to the and Ken King of field engineering look very pleased. Army Signal Corps destined for different depots and

## Summer Season's Picnic Plans Viewed

General chairman for the Annual August picnic at Tektronix will be Bill Barnes. Bill and a committee are now formulating bigger and better plans. In charge of the children's games again this year will be Irene Wilson and a staff yet to be announced.

Working on the adult side are Don Sheridan, Corky Hymes, Bob Cogan and Norma Caufield. All volunteers are cordially welcomed to the fray.

As in former years, a notice will soon be passed around the plant to allow employees to state their preference as to picnic site, food, number of guests and how many in their family.

### PANEL SPEAKER

Appearing on a panel on June 8 was Bill Webber during the Pacific Regional meeting of the National Rehabilitation Association. The subject under discussion was "Labor and Management Looks at the President's Program on the Physically Handicapped."

## Ampex Official Plant Visitor

Mr. Robert M. Strassner of Ampex Corporation, Redwood City, California was a visitor in our plant on Monday afternoon, June 7. Mr. Strassner is Manager of the San Francisco District Office of Ampex, which covers eleven western states.

Ampex Corporation manufactures high quality tape recorders. As you know, these make excellent musical instruments. What is not generally as well known, is that they can also be used to record almost any type of electrical phenomena. This means that some very expensive experiment, such as an A-bomb blast can be "recorded" by a number of these instruments and then "re-played" at leisure, enabling it to be studied again and again in a laboratory.

Many events that can be displayed on our scopes can be recorded on tape, therefore the two instruments tend to be complimentary.

He was very impressed by the wide variety of operations that we carry on in our plant. Contrary to the general manufacturing trend, we are making a consistently increasing percentage of the parts we use in our instruments. Most firms, however, could be called "Assemblers" of components, obtaining them from producers who specialize in a particular type of parts fabrication. He felt that our type of operation gave us a great deal of flexibility. Mr. Strassner commented on the quality of employees that we have here and was surprised by the working conditions and benefits that we have in our plant. He indicated that it was obvious why we have risen to the place we occupy in the electronics field.

## Possible Delay Due to Holiday

Tektronix employees will not receive pay checks until July 6 this month due to the long 4th of July weekend holiday.

Recently, Tek's accounting department of Lew Witter, Bob Leipzig, Les Stevens and Nancy Goodman have by super-human efforts and overtime managed to get the payroll out prior to payday. This was true on the Memorial Day weekend and also on June 17. This special effort was not in the rule book but their attempt to give employees their paychecks prior to a holiday.

This month, the accounting department is fighting a losing battle against the calendar. Pay period ends June 30 on a Thursday; time cards will not be in until sometime Friday; Monday is a holiday; and Tuesday is payday (we hope). To further complicate the issue, an advance against the bonus is due July 6.

This is the first deadline that the payroll department has had difficulty with and in case they miss it by a day, please, be patient. Much of their holiday was spent working here in all probability and at that they are shorthanded with Les on vacation and Lew retiring.

## New Additions

Coming to Tek's front office from the Cleveland office is Alicia "Lee" Spragg. From our Dayton office is Sally Ann Briede.

New faces in assembly are Kay Adams and Tom Sly. Welcomed to capacitors is June Woolridge. New to test is Eddie Richmond.

## Eastern Junket

Heading for the National Association of Cost Accountants international cost conference in New York, June 19-23 were Les and Maryellen Stevens flying East in Jack Murodock's plane. Jack will visit Eastman Kodak, International Business Machines and Tek's eastern offices.

## First Retirement

Tek's senior statesman is Lou Witter who heads up the payroll and accounting department and has since March 1, 1949. Lou retires on the first of July but will be as always a counsel, at Tektronix's request, working on a part time basis.

## Hurry! Hurry! Hurry! Get Your Name In The Hat



Pondering the neatness of her desk is Marybelle Rash who will put your names in a hat.

Hot prospects for the drawing are Cy Littlefield, Corkey Hymes, Roger Haight, and Jim Cook.

Story of drawing on Page 3.

# Tek Talk

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## Tektronix--Inside and Out

A recent issue of Business Week highlighted a factor in successful business operation that has been in practice at Tektronix almost from the beginning. The author of the piece, a competent executive himself, cited examples of manufacturers who had built superior products but failed to carry the same level of workmanship and integrity into the customer's home. No fault was found with the product itself, but careless attitudes in delivery, service or other contact with the customer, discounted all the extra effort and expense the manufacturer had put into his product to make it better than those of his competition.

Many of us wonder why it is necessary to maintain Field Personnel in our various Field Offices, as well as in Portland, when other manufacturers seem to get along without this apparent additional expense. First, we have to accept the fact, that under current business practices, a selling expense is inevitable. You may not call it by that name, but the selling expense is there. You may choose, as some firms do, to put almost all this selling expense under advertising; this can, and has been, exaggerated to the ridiculous situation where the advertising and selling costs are much higher than the cost of the product.

Our approach to selling has always been to start out with the ideal situation of the customer-engineer discussing his requirements with the Tektronix design engineer. Because this is an unattainable ideal, we try to do the next best thing, and have customer-engineer discuss his problems with a Tektronix Field Engineer, who has had his head inside scopes, and knows the smell and feel and taste of all the components and tubes and wires, and also knows what's going to happen when this expensive box full of volts, amperes and impedances meets up with the particular signal whose personality and background the customer-engineer is investigating.

Now, it isn't enough that our lad be a technical consultant; the reason behind this is the nub of the story. The big secret here is that our Field Engineer is NOT selling scopes; he's selling something much bigger, much greater — he's selling TEKTRONIX. In essence, he's selling you and me and all the of us, good and bad, because that is Tektronix. Now, if he can leave a customer with the mental fixation that Tektronix not only builds the best scopes, but is a great outfit to deal with, and harbors all kinds of brains and skills, he doesn't care whether the man buys a scope or not — he knows this man will come to Tektronix when he has an oscilloscope problem.

It's up to the Field Engineers and Field Secretaries to see that the customer understands these things, and they can't do it with words alone, they have to show performance. It's up to us to back up the field people in every possible way; to get them (usually in a hurry) everything they need in the way of parts, information, tools or instruments. It takes capable personnel in the home office to implement this backing-up. Some can't understand why there need to be so many people in the front office; the reason is here. We get a basketful of telegrams every day that have to be answered intelligently, immediately. Take a look at the tubful of mail Lefty brings in on a Monday morning. Some of the letters are childish, some idiotic, and some impossible, but they have to be answered. We can't just tell people "NO" (we'd sometimes like to) but because we are Tektronix, we feel people deserve the best we can offer.

Let's look back at the story about the manufacturer who built a fine product, but didn't follow-up. His trouble was, he was selling just an appliance, a piece of machinery. He may wonder why his fine product didn't enjoy the popularity he felt it deserved, however, he didn't care what happened to the customer after he made the sale. We DO care.

When a customer buys a Tektronix instrument he buys a lot more than a piece of machinery — he buys our interest, the full interest of every employee, in his technical welfare, our hopes for his technical success, and our assurance of responsibility for the continued usefulness of his equipment.

All this is our corporate product, and into this product goes a little of each of us. We're not selling scopes, we're selling TEKTRONIX.

Loafing is the way Joe Dimeo described his vacation. In between extensive drives into the Cooper Mountain foothills, Joe installed a 75' cement driveway that also measured 14' wide. He is now an authority on hand troweling. (What a way to loaf!)

### Stock Cars and Stock

Car fever and vacation schedules broke out in a rash with a rapid rise in automotive stocks. Phil Mallory's research in the used car market resulted in consolidation of his present rattles but his findings were made public.

First hint came with Dick Millington's purchase of a 1951 Plymouth in tomato red with an ivory top in March. Next came Mary Lee's edict to Bill about kitchen curtains and cars (seems like they should match) and the first of April we have the Lee's in an aqua and ivory Riviera Buick.

Ken Jacobson showed a preference for Chrysler products prior to the test run of 3,000 miles between here and Colorado and the streak of glaze, green and ivory, is Ken and Dorothy's.

Studebaker-Packard now came in to the fray. Buyer-resistance and Bill Hutton merged with the purchase of a saffron cream 1954 Studebaker. Caution went with the wind as Dick Place snapped up a bargain in a Bel Air Chevrolet.

Final relations with the automobile industry is now the decision of Mart Kubbarsepp and Eino who are dickering over Chevrolet.

If you want figures, statistics, performance or information check with stock first — looks like everyone's represented except Ford — this is the job of the super salesman.

Vacation season began on schedule with Gene Eliot — seems two children in the family necessitate schedules. Gardening and research on electric fences completed the routine — we are told that the cat has not returned.



Fernando Henriette Armande Collette Salesses Herick, Colette Herrick to her friends in the ceramic department, is an April addition and attraction to the department.

Colette was born and lived in Paris all of her life until coming to this country as a war bride (wife of Bill Herrick, crt) in 1945. A mother and sister still reside in Paris; her father was formerly a detective in the Paris Surete' (the police). Another sister, Yvette, now Mrs. James Sarko, lives in Chicago. Mrs. Sarko is spending several weeks with the Herricks this summer.

Colette was in Leipzig as an exchange high school student when the war started. She returned to Paris, finished school and business college, and was working as a secretary when she met Bill, the U.S. Signal Corps, in Paris. Since January, 1954, Colette has been an American citizen.

The Herricks have two little girls who are pictured, Ann Marie, 4½ years, and Charlene, 3, and have recently purchased a new home in Sunridge Acres near Beaverton.

Newest member of the fish club is Kay Barber. Those fancy membership cards can be obtained from Leonard Mason, Walt Schmidt or Ed Archer.

### Jacobsen's Jaunt

Touring 3,000 miles with Steven, 2½ and Jon, 1 year, was the planned design of Ken and Dorothy Jacobson who took two weeks and spent eight days of it in the Denver area.

Comments were that Colorado seems to need what we usually have a surplus of — plenty of water. In spite of this shortage (Kenny seems to notice shortages) Denver's growth is noticeable in vast housing projects of 1000 to 2000 homes. Chatting with employees of the National Bureau of Standards, Kenny reports favorable comments upon the performance of Tek's instruments. Home again and at last report there was not a single quip in the household, "Let's go for a ride."

Bill Johnson we hear is now a boat salesman. Catching a 26" trout in the Wickiup Reservoir over the Memorial Day Weekend, Bill then went to the Deschutes transferring his boat from the dam to the river. Cruising down the Deschutes, Bill would pass bank side fishermen who asked him "caught anything?" with just the simple gesture of holding up this wopper of a trout.



Verna Dobson (coils) and husband Frank recently purchased the Market Service located in the Farmer's Market at SW 4th and Yamhill. In addition to candy and tobacco, they also cash checks, sell money orders and offer many customer services. Put them on your shopping list.

### Southern Sunshine

Lucy Benton, mechanical assembly, basked in the California sunshine visiting mother and daughter during her vacation. Picturesque scenery along the coastal route impressed her on her homeward flight.

Following in sisters Darlene's footsteps in mechanical assembly is Kay Adams.

### What an Assembly Line!

Mechanical assembly during the month of May ran a total of 9,616 chassis, plus 2,010 rectifiers. With fifteen persons on production, not counting absences, this amounts to 641 units per person per month. Each of the rectifiers has seven separate operations, six of which are done by mechanical assembly. The painting of them is done in the shop.

Before being stationed in Alaska, Don Berkey stopped in at Tek to visit old friends.

Mollie Robbins, mechanical assembly, spent a week's vacation at home working in her garden.

### They Even Got His Tonsils!

A trifle anesthesia — just a dash, A whetted silver scalpel — then a slash

Somewhere around the region of the pharynx.

(We suspect they spared that vital larynx, For despite his operation very horr-

ble, Bill Lovell can, and does, still warble.)

It seems that Betty Jones, assembly, has taken a fancy lately to dappled black and white barefooted footsies. Well, in these days when the plant has been slightly on the torrid side, everyone has gone a bit daffy, it is presumed.

Gloria and George, you wouldn't volunteer any information on the culprit who poured black ink into her footbath, hmmm?

### Watch Out!

If sometime in assembly one, When sprinting down the aisle, You meet a mobile mountain-side A-loomin' up a mile — Don't fret, or run, or drop your gum. But step aside a bit — It's just a loaded stock-room cart, Bill Sedig's pushing it.

### Up In The Air

Cathie Rolfe's eyes have been sparkling steadily ever since May 26th when she accepted that bedazzling diamond from a certain Robert Grammer. The important date has been set for September 17th.

A hurricane with violent lunge A coco palm will soon expunge; But never will I ever see A more disjointed Daphne tree, With branches pelted here and thar, Bestrewn by Betty Glasnapp's car.

### Verification

It is not just a rumor That Kay Barker dropped this hint; It is a fact; Kay wants to see KAY BARKER down in print.

### First Come, First Serve

On random days in finaling, at nine-o-five approx, There is chaotic scrambling of Guthrie, Kidd and Fox, And Rasmussen, and Faber, and Taylor without doubt; (Outsiders always wonder what this melee's all about.) Upon investigation, it was found without mistake That Dorothy William baketh the BEST banana cake!

Wedding bells rang out for Paul Lund and Trudy Parkhurst on June 17th at the First Baptist Church in Vancouver. Paul a '54 alumnus of Cascade College works in the finaling department at Tek. His bride, a June graduate of the same college, will teach the 3rd grade in a Portland school this autumn.

Congratulations to this pair.

Peggy Jones, after beginning in the department April 20, was stricken with polio at work April 28. Completely recovered, she was back with us June 6.

You can hear the laughter in the plastic department again — Blanche Berg is back after six weeks in the 'garage'. She had a ring and valve job done in order to forstall a complete overhaul.

Laurel Zirschky (husband Gene, inspection) was called to jury duty for the May session, returning to work June 3. She was on 6 cases, mostly traffic accidents, and says it was one of her most interesting and educational experiences.

The first summer vacation casualty of transformer department was reported by Sid Jones — whose eight year old son, Mike, suffered a broken arm while playing ball. Mike's comment — "I aint never gonna play with them guys no more!"

The plastic department has acquired two new drill presses and one new rock hound: namely, Vern Bartlett.



### Tek To Teaching

Leaving a host of friends behind, Mrs. Brown in the cafeteria is now retiring from Tektronix and going back to her first love that she left some 40 years ago, teaching school. Her children are now educated and Nancy's marriage culminates her plans for her children. Now Alfred, age 11 and Mrs. Brown are making another set of plans.

This fall Mrs. Brown's only problem is bringing her certification up to date. Credits may be obtained at any accredited school which will make vacations especially enjoyable as traveling combined with summer school will become the plan. First on the list will be projected next summer with the possibility of a conducted summer trip to the Holy Land under Wheaton College supervision with study courses aboard ship.

Good luck, Mrs. Brown, we are all pleased with your plans and will certainly miss you after four years in that well-known spot.

### Hiking Club Plans Summer Weekends

Holding their first meeting on June 20, the Hiking Club discussed plans for hikes and outings this summer with weekly meetings to be scheduled for the next few months. So much interest was shown that several one-day hikes and weekends are already in the planning stages. A list of places will shortly be offered to anyone interested in participating.

The weekend of the 26th a group went to Short Sands. This was planned for a one-day outing but many of the group made it an overnight stay. Joining the Short Sands group were the Ed Froehels, John Duracka, Yvonne Hoffer, Helen Ross and family, Charlotte Peterson and family, Bob Ricks, Charles Haase, Dave Spinx, Reva Strong, Don Ellis and Blanche Cook.

Remember all you have to do to join is attend a hike!

### Scope Given To Far East Company

Instrumental in the donation of a 514-D scope to the Far East Broadcasting Co., Inc. was Paul Belles and a group of Tek employees.

This broadcasting company is an inter-denominational organization broadcasting religious programs in 36 languages and dialects from the Phillipine Islands with their station located in Manila.

Locating the scope for the group was the Chicago field office. Home office of the Far East Broadcasting Company is in Whittier, California. The Flying Tigers are flying this scope to Manila free of charge as their contribution to a worthy cause. Paul on his recent vacation delivered a few more vital parts at their Whittier office.

### Gift Fund Choices

In a recent personnel committee meeting much evidence was shown in Tek's gift fund. As most of the employees know, \$2 is deducted every 6 months from the pay checks and this money goes into the Gift Fund. This supplies gifts for births, weddings, farewells, illnesses (one week or more), hospital cases and flowers for funerals in the immediate family. A report was asked as to the type of gifts for this issue of Tek Talk.

During the month of May, Marcella Treglown and the Emil Evans family received blankets for their new additions. The Howard Daniels were given an electric bottle warmer; Paul Tripp and the Cal Smiths received silver spoon and fork sets.

Farewell gifts were purchased for Jane Fitzgerald with additions to her crystal; Jean Kopra received a set of Revere mixing bowls and Juri Kauk was given a pocket secretary.

Illnesses resulted in flowers being sent to the following people: Mickey Kokich, Pauline Mau, Bob Guthrie, Bob Davis, Beulah Veach, Esther Neurerer, Derroll Pennington (chocolate flowers), Lee Wagner and Bill Herrick.

### Publication Racks

This coming month most of our new pamphlets will be information on the "Eyes." In addition some new pamphlets will also be available on nutrition and "Summer Fare" for busy homemakers.

## Latest Victim to "Birdman Virus" In Eastern Office



The "Bird" (Jack Cassidy)



The "Birdman's" Plane

The Birdman virus became established as an occupational hazard at Tektronix about a year and a half ago. As is well known, the inroads have been made on all plant levels of corporate activity, not excluding the General Manager.

#### From Coast to Coast

However, the virulence of this malady was not realized until the first part of June, when it became evident that the "bug" had leapt across the U.S. and established a firm beachhead in the Eastern Division office. Hindsight enables us to surmise with some accuracy that they were exposed during July of 1954 when they were visited by two factory men, both of whom are known to be carriers of this plague, the one case dating back over a quarter of a century.

In retrospect, the progress of the disorder is well defined, and is outlined here for the benefit of those who may wish to avoid this contagion.

#### Diagnostic Symptoms

After the exposure in July, the first symptoms were evident to this investigator during a visit to the victim's camp on Lake Wentworth in New Hampshire during August, 1954. Restlessness, a moderate fever and a slight glassiness of the eyes when discussing things aeronautical are typical, and except for the fact that many other maladies exhibit these same symptoms, should have served as a warning. (A further disturbing factor was the acquiring of a new motor boat, motor and water skis just prior to this time. It was mistakenly assumed that pride of ownership and excitement attendant to the use of these new possessions, were responsible.)

#### Incubation Period

The incubation period in this particular case seemed to be longer than normal, perhaps due to the occurrence of a hurricane in that part of the country in early September. Whatever the reason, the next posi-

tive symptom did not appear until February 18, 1955, when a letter was received from the patient, which indicated that the more serious phase had set in. An incoherence not usually evident in this individual's letters, an expectation that he was going to "take off" soon, and a general fuzziness of description marked this as a possible chronic case.

#### No Vaccine Available

On June 13, word was received that the incurable stage had been reached. Jack Cassidy wrote that he had soloed, and by the time this is published, probably will have completed his formal flight training. The accompanying illustrations portray the ravages of this disorder, and it can only be hoped that it does not spread to the immediate family. However, statistical evidence indicates that the early symptoms can be expected in Norma and the Cassidy boys any day now. (Congratulation, Jack!)



## Tek's First Venture Into Juniors Jack Day Draws the Lecture Role

**Editor's Note:** In response to a request from Douglas Leonetti at the Creston School for a talk on electronics, Jack Day found himself assigned the role of lecturer for Tek's first effort into the field of junior high education. The following is Jack's story:

Walking through the door of the Creston school with a 310 in one hand and Douglas's letter in the other, I approached potential customers with greater apprehension than any client in the sales books of field engineering.

#### The Approach

The school secretary directed me across the hall. A short, dark-haired, bright-eyed boy met me at the door and introduced himself (it was Douglas) and in the next breath I met the teacher. The teacher introduced me and said "Class, Mr. Day will tell us all about electronics!"

Have you ever tried to tell a grown-up what an oscilloscope is? Here I was with 30 eager faces wanting the capsule treatment. As an hour and a half vanished, there were questions but no problems. Questions had been asked but many more intelligent than an average

adult audience. A sample: "What made the instruments cost so much and how could they be used?" Here I opened the scope up and traced through the calibrator circuit. That provoked the next question, "Why couldn't a 27 inch scope be made, like on a TV set?" (They can, but not with the same characteristics.)

One interested little girl wanted to know why people wanted to know about electrons and other aspects of nature. A little later she asked if I thought my work was as much fun for me as watching TV was for them. I was happy to reply in the affirmative. All the girls were quite pleased to hear that women were much better at lots of jobs here than men were. This resulted in questions concerning education for engineering and if women could be engineers.

As I left, I felt that I had benefited more than the class. Most of the group seemed to grasp the essentials of the need for our type of equipment, and their wide range of uses. If these are the scientists of the future, I won't worry. They have the curiosity, initiative and good sense to make a success of it.

### De-Liar Potentials?

Potential applicants for Tek's De-Liar Fishing Club are three new members in assembly II. Lila Harrison of Gladstone and Lois Bishop of Portland are swapping fish stories these days. Hazel Petersen of Hillsboro states fishing as her hobby, too.

Emma Thomas and Betty Mae Punzel are two additional members from Hillsboro (this is getting to be quite a clan) and claim no interest—they like everything.

A recreation check with Helen Sherrod finds her liking dancing and swimming.

Vera Sigler of Oregon City is the new girl in Kit Prep. She goes for square dancing and roller skating. (See you at the Oaks!)

## "Flying Feathers" Enjoy Outing

Members and families of the "Flying Feathers" Archer Club of Beaverton enjoyed a weekend outing at Suttle Lake June 17-19. The group had the weather with them for the 3rd straight year as they hunted, fished and hiked. A sizable number of arrows were lost, several limits of fish caught, and many many miles hiked.

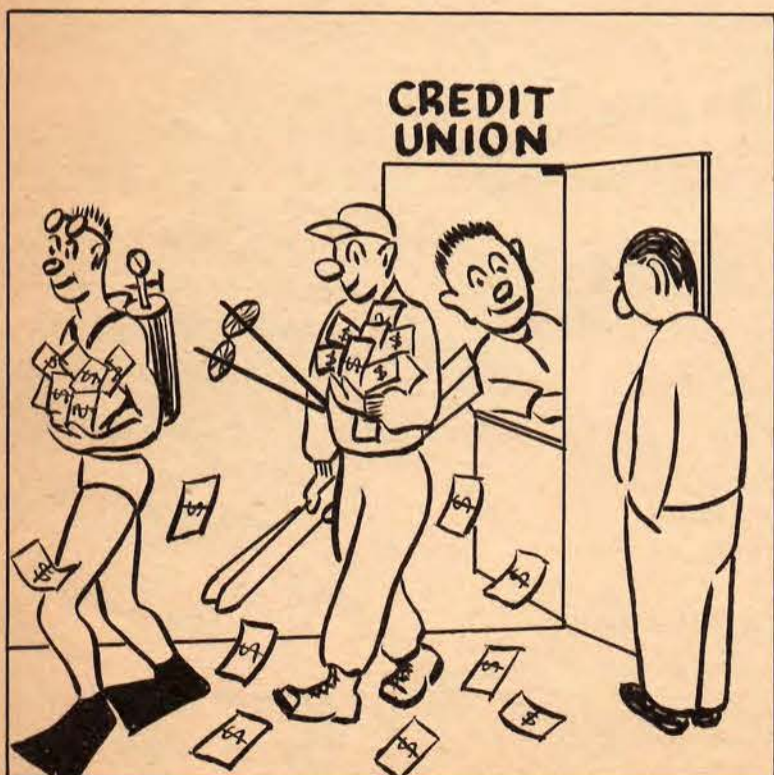
Those members of the club working at Tektronix are Rose and Ed Archer, Burt Eberly, Jim Morrow, and Jim Boyle. Helen Ross and Armon McDowell were along as guests. All had a wonderful time.

## Lucky Loot for Tek's "Friday Surprise"

Hurry! Hurry! Toss your name in the hat right now. Tek is about to make the most gigantic, super-colossal, terrific, out of this world offer that has ever been made at any bargain counter. It's better than a Friday surprise, better than the Hollywood superlatives—in short, the offer you've all been waiting for.

Drop your name in the hat and get it in right away for the drawing. Bob Davis and Marybelle Rash have organized the long awaited grab bag. In each paper bag is an assortment of radio and surplus parts valued at \$19 or more and yours if you're lucky for only three small dollars. There are only 46 bags and the lineup we predict will march right through assembly. The drawing will be held just after this issue of Tek Talk has reached your hands leaving you ample time for discussion of when is it going to be?

All names should be given to Marybelle Rash by noon (high that is) July 15 in order to get stuffed into her hat for the drawing at 2:10 July 15—where?—assembly 1.



DO YOU LOAN MONEY FOR VACATIONS

# Tek Goes to Europe's Hanover Fair



Each year Hanover, Germany is host city to the most far reaching and important activity on the present day German industrial scene. Known as the German Industries Fair this gigantic trade show is international in character, and in 1955 an exhibit from the United States was included for the first time.

### Tek has Company

The U.S. Department of Commerce was the sponsor of the American Pavilion exhibits, with emphasis on the electronics and rubber industries. Included as participants from the states were Collins Radio, Beckman Instruments, Berkeley Scientific Company, Helipot Corporation, Telechrome with their version of color television, Reeves Computer Company, Alfax, Regency Radio, General Electric Company and Tektronix, Incorporated.

### Kibitzing Session

In the picture accompanying this

story, we show an "after-hours" shot of the Tektronix display with Dal talking to two members of the Collins Radio staff. Discussing the new Tektronix cathode-ray tube is Al Hamman, manager of Collins Radio Limited in London. Walt Henderson, service manager for Collins studies the construction features of a Type 53B Plug-In Unit.

### Attendance High

The Hanover Fair was held April 24 through May 3. During this time an estimated 1 1/2 million people paid an average of 8 German marks (approximately \$2) to attend. Over 3000 exhibitors displayed their wares in 2,000,000 square feet of indoor space and, for heavy machinery, many acres of outdoor space.

During May with Dal and Howard Vollum both talking and visiting Tek's European offices the export department announced its biggest month in sales.

# Air Conditioning At Tek Has Touch of Thermoanesthesia

A point of local pride and exasperation is the air conditioning at Tektronix and during the recent heat wave — temperature and tempers were equal. Bill McCord and Bob Herren manned the complaint department to no avail.

Tek's contract read completion date by summer—in Oregon who knows this nebulous date. Due to the truck strike there was a delay in material and final testing did not begin until mid-June. The heat wave found Tek reverting to the antiquated system of sprinkling the roof to get some relief and increasing the air velocity through the plant 50%.

The rumbling noise heard on the roof over assembly was not thunder but our construction crew moving the two ton evaporating condenser in place.

Now completed, Tek is ready for any heat wave. In addition, we have the only completely air conditioned plant of this kind in Oregon.

# Parking Completed

Parking is now back to normal. Our parking lot and the clover leaf leading to Cedar Mill and Beaverton match, as the black-topping crews completed their work in the main driveway section of the plant.

A complete grading operation was also finished in the remainder of the plant parking area. A drainage system was installed to cope with the excess water standing in the driveways.

# De-Liar Prize Winner On Holiday Jaunt

Scoring against all the kibitzers in the De-Liar fish club was Gloria Montag who took the field with an entry on May 31, the last day of the contest. Landing a rainbow measuring 21 3/8" from Klamath Lake was her first entry and the second was an 18 1/2" rainbow from Hood River. They were caught on an Andy Reeker lure with a regular casting reel while trolling to win the monthly prize.

Claire Kidd who was sure of first place up until Gloria's entry won for stream trout with a German Brown that was 17 5/8" in length caught with worm bait on the Deschutes.

The De-Liar Club has been presented with \$13 worth of South Bend lures as a gift of Milt Schoof of the West Slope Sports and Hobby Shop.

The game commission's release of 5,000 large rainbow trout in Wallowa lake may well be the place this month. Almost 2,000 of the trout were 10 to 14 inches long, and some weighed nearly a pound apiece—this brings up to 18,000 the number of trout placed in this popular lake with a July liberation of 5,000 more planned.

Sparks and Todd lakes in the Cascades, reserved for fly fishing only, until recently snowbound should be another mecca for anglers.

# Rise Predicted In Auto Stocks

Fifty-five days after the order had been placed, Tektronix became the proud possessor of a new 4400 Series Chevrolet truck, with a twelve foot van type aluminum box. Monday, June 6th, was red letter day for Milo Elkins, driver and principal custodian of this ton and a half, green comfort-laden instrument of transport service. "She rides like a Cadillac," says Milo, who has been chomping at the bit since April 13th.

This newest addition to our expanding list of licensed vehicles will be the corporation several dollars on the basis of past activities. The new truck will enable us to give more rapid service between our plant and the Portland warehouses, at any time, any day, for any item, large or small.

The eternally present controversy of "Who builds better trucks?", and "Why didn't you get a Ford (or Dodge or GMC)?" will probably go on ad infinitum. Som are eagerly awaiting the breakdown of this truck to substantiate their suspicions. In answer to this highly debatable dispute the stock department can point with pride to its vast background of cars and trucks and say, "Well, maybe you're right. Next time maybe we'll do different."

Have you noticed the new face-lifting job on the Tektronix Panel? Actually, it is not a face-lifting job, it is a new 1955 Model 3100 Chev Panel.

We have traded a flying formation of nuts, bolts, and squeaks for a closely-knit organization of modern steamlining and squeak-free operation, with added comfort, visibility, and safety. The most pleased recipient of all these pleasant features is our own Lefty Vandehey, who somehow succeeded in keeping the old bucket of bolts on the road until our new luxury liner (in comparison) arrived.

# Terminations

Leaving Tektronix from assembly are the following: Jean Kopra, Dixie Kahn, Fay Riaz, and Evelyn Carter. We will miss Max Messmer in transformers and Juri Kauk in test. Jane Fitzgerald has now left us in purchasing and Janice Reynolds is leaving our Cleveland office.

# Graduation Honors

Don Kepler and family were proud observers at the Commencement Exercises of the University of Washington on June 11 where they watched son Don Ian graduate Magna Cum Laude with a Bachelor's Degree in Aeronautical Engineering.

Don received the highest scholastic standing of anyone at the University of Washington in engineering or science in 1955 and was a member of the Honor Societies of Tau Beta Pi and Phi Beta Kappa. In 1954 he received a Boeing Aircraft Company Scholarship. He is starting to work on June 20 in the new Missile Division of the Lockheed Aircraft Corporation at Van Nuys, California. He is one of two picked from the University of Washington by Lockheed under their Graduate Training Program. He will attend the University of Southern California where he will study for his Master's Degree, while working for Lockheed. The Keplers have reason to be proud of their son who not only worked his way through the last two years of school but kept his grades at the top of his class while doing it.

# East For Training

Bill Polits (engineering) will attend a summer transistor application symposium, July 5 through July 29 at the University of Michigan in Ann Arbor.

# Final For Citizen

Harda Kauk passed her final examination on July 8 for citizenship papers and will become officially a citizen in September when she is sworn in. Welcome!

# Back From The Service

Back from the Armed Forces are Bob Carroll, Ed Roskoski and Bill Mussig.



## Are You Man Enough?

### FOR A MUSTACHE GOTE E CONTEST

## These Guys...

- Gisle B. .... Print
- Emil Evans... Carp.
- Doug. P. .... Print.
- Don Pratt.. Assem
- Geo. Brooks.. Shop

## ARE ALREADY AHEAD BY A WHISKER

## ARE THERE MORE

## Picnic Day Will Prove Who is BEST MAN

# — THE BIN. —

### Double Production

One of the fastest growing departments in Tek is ceramics. Since March, 5 new girls have been added to the staff, making a total of 14 girls as against 6, six months ago. New employees are: Charlotte Peterson, Colette Herrick, Peggy Jones, Doris Casey and Helen Rohwer. Ruth King, student at Pacific University, is a summer worker.

Joe Reeder, shop, and Rachel, manuals, are vacationing at home the last two weeks in June. Visitors from the East are keeping them in a whirl.

### California Vacation

Vacation bound in June was the Paul Belles family for southern California. Paul has two sisters in Pasadena and a brother who is a minister at the Free Methodist church in Bakersfield with whom he visited on the way.

Checking in with the hospital this last month has been Joan Cramer whose husband was seriously ill with a ruptured appendix. He is now on the mend.

Hospitalized in June was Derrol Pennington (crt) who had an appendectomy.

### Congratulations Henry!

Congratulations to Henry Haase, the newly elected president of the Portland Management Club.

Celebrating the day with Dal and Hazel Dallas on the occasion of their 25th wedding anniversary, Tek punters enclosed a silver painted rolling pin for Hazel inscribed with her name and a silver paddle with "For the next 25 Years". Congratulations!

### The Oregon Scene

First vacationer from ceramics is Doris Kelly, who left June 17 to drive, with her mother, Mrs. B. Casey, on a sight-seeing jaunt along the Oregon and California coast.

### Back From Training

Bob Cogan, transformers, has just returned from three months in Chicago at the National Headquarters of the Young Christian Workers, a Catholic organization for young fellows and girls.

Bob had a leave of absence and took part in a training course to learn more about the fundamentals, technique, and practical application of the YCW for the Portland area.

### Newcomers to Transformers:

Mary Daily to coils. Mary lives in Aloha with her husband and three children. James Barnet, transformers, formerly from Cottage Grove, where he was a watch maker. Also new is Frank Larkowski from Stevenson, Washington. Frank attends Washington State, where he is a Junior, majoring in Electrical Engineering.

### Off for Europe

Charlene and Brenda Anderson, daughters of Harriet Anderson of capacitors, are going to Europe for the summer. They are leaving July 14th and will return September 2nd, after touring 14 countries and attending the Y. W. C. A. World Centennial in Paris. There should be some interesting pictures, etc., later.

Martha Hanson (crt) and her three children have just returned from Greenfield, Iowa where she spent her two weeks vacation visiting relatives.

Rose Duane (crt) and her mother spent the weekend of June 18th camping on the Clackamas river.

### Fish 'Formation

Another great big fish story comes from Ginny Levens (crt) and her family. Memorial Day weekend found them at Lake Tahkenitch in the Bend region. They came home with 20 largemouth bass, 24 trout and 17 perch — all caught by George, Jr.



From Tek's office in Boston came pictures of Vic Fricke and Betty Pray taken by that ace photographer and Eastern manager, Jack Cassidy. Shown above is Vic Fricke, manager of the Boston office. Vic lives in the same apartment that Jack Day had in Newton on the historic Charles River. The Fricke's have now added a dog to their menage and Vic continues to say "I like Portland".



Behind the typewriter is Betty Pray who is staying in Boston with Janice Reynold's mother, only two miles commuting to the office and that's good for the East. At last report, Betty was well on her way to becoming a "Damn Yankee". We need an inter-office communication to either support or refute this statement. How about it Betty?

## In A Hassle Over Annual 'Haymakers' Hustle



## Committee Finishes Plans--Destination: Island Park

Tektronix's Haymaking Picnic (history making, too) expects all hands on deck for this annual event on Saturday, August 6 at Island Park near Canby.

Festivities for 'Little Haymakers' begin at 10:00 and continue to 12:00. Irene Wilson who heads up the junior division this year promises all of the old favorites and every child will receive something for participating. The afternoon promises movies, swimming and a complete program of picnic activities. The Credit Union is contributing 1,000 helium-filled balloons.

Picnic chairman Bill Barnes promises a well organized program with the following ingredients: good food, games and prizes. Big 'Haymakers' will vie for prizes that have been displayed in their cellophane wrap all this week. Ball teams will choose first ups at 12:30. Door prizes will be given during the day; all employees and guests are asked to drop their tickets in the box next to the barbecue stand.

Three public address systems are planned for this year. The first one will be used for the children's games and softball. The other two will

allow the "calling" for square dancing and the adult games. (The committee at this point has not yet decided which p. a. system will be used for the usual compliment of lost children.)

Food will be dished up at 12:00 noon with a choice of ham or beef barbecues. Free pop, coffee and ice cream will be dispensed throughout the day. See you at the picnic.

Don't forget to take your camera and turn the pictures in to Tek Talk for the September issue.

## Chicago Field Engr. Visits Tek for Briefing

At more or less regular intervals, Tektronix Field Engineers are called back home for a dual-purpose visit at Tektronix, Portland. The primary objective is for the field men to get first-hand technical briefing on new instruments, new procedures, and new thinking. They are also unconsciously imbued with the indefinable influences that reveal Tektronix as very much more than just a place to work for a living. Of course, the communications are two way, and we at Portland learn more of the pertinent details of field operations; many of these points are important, but almost impossible to express in written form. We learn too, of the attitudes and dispositions of customers on many aspects of our operations.

Back from the field last week was Dick Ellstrom, currently one of the stalwarts of Tektronix, Chicago. Late in 1950 Dick sneaked out from under the aegis of Western Electric and stuck his head in the door at Tek. After cycling (at that time a quick and dirty "QC" job) thousands of scopes, he was snatched for the first field repair billet, here at Port-

land.

In the summer of 1953 Dick sat down in the "hot seat" in field engineering for indoctrination in the business machinery (major course is Common Communications). In September, Dal pulled the ejection release lever, and Dick was catapulted into space, landing in Bronxville. After a short course in Poise, Charm, and Pulse Feeling under Prof. Cassidy, he was welcomed to Baltimore by Fred Hart and Jean O'Brien.

When Tektronix, Chicago, was opened last February, young Ellstrom was there, along with Evelyn Dunham, George Edens, and Ken Dellinger; Don Clifford arrived at the front shortly after, and late this Spring, pace-setting Eve Fitzgerald was snatched from Dayton for field secretary at Chi to give Evelyn more time for her Central Division secretary burdens. Since then Dick has been romping cheerily about Chicago, Kansas City, Wichita, St. Louis, and then some. Returns to date indicate his constituents are happy about the whole thing (and so are we).

On his return to Portland he brought Beth and the children, Nancy and Jimmy, to stay the rest of the summer with her parents while Dad dashes around the midwest cooling off overheated scopes and customers.

## Tek's Divot Diggers Warm Up at Orenco

Starting the interest in Tek's annual golf tournament in August, a preliminary 36 hole tournament has just been completed at Orenco with a field of 25 hopeful divot diggers.

The Orenco golf course presented prizes to the entries and they have been awarded to the following golfers: First prize, Ed Bauder who qualified as the wettest golfer; second prize, Les Stevens who lost the most golf balls (the accounting department is still at work on percentages); third prize, Dick Place, for the hardest hit ball—Dick claimed a birdie if he'd ever connected; fourth prize, Gene Cavanaugh who collected on the most improvement—after a round of triple bogies, Gene settled down to steady divot digging (and replaced, too!); fifth prize, Bill McCord for the most consistent golfer who had a handicap of 36 to start and never varied.

Jim Peabody and Bob Leipzig are now looking for two recruits for their committee and the annual golf tournament will get underway.

## Terminations

Tektronix is certainly going to miss Dona Kidd, Laurel Zirschky, Nancy Pratt and Mari Le Moulton.

## Bonus Barometer Fluctuates With Payroll, Production and Delivery

As a result of the interest expressed in Personnel Committee meetings regarding the "ups and downs" in the current profit share, and therefore in the bonus advances included in the 5th of the month paycheck, Tek Talk will attempt to explain the contributing factors each month. One-half of the Tek bonus is given each month; the other half is accumulative and payable on a six months basis in June and December.

### Expenses Totaled

In order to determine the amount of the monthly profit share, the following method is used. All of the accumulated expenses for the month are totaled. In addition to payroll, this includes depreciation of the plant and equipment, property and payroll taxes, fire insurance, materials purchased and all other expenditures needed to operate Tektronix.

This operational expense is deducted from the sales value of the shipments to obtain the gross profit. This profit is adjusted to provide an allowance for renegotiation of the price of instrument sold to the Federal government to give the amount of "profit" subject to profit sharing. The amount of the profit share for the month is then 22½% of this amount.

### Payroll Determined

From the total payroll for the month, the pay of the field engineers (who receive incentive pay based upon the sales in their area) and of temporary "summer" employees is removed. All sick pay is also deducted. The remaining amount is the payroll subject to profit sharing.

Your bonus advance is now ready to be determined. For example: Assume that 22½% of the profits for a month amounts to \$35,000, and total base pay is \$100,000. Dividing profits by base pay would give you 35%. The actual number of bonus dollars is obtained by multiplying your base pay by the percentage figure. If your base pay is \$200 a month, and the percentage of profit-sharing for the month is 35%, then your share of the profits will be 35% of \$200 or \$70. Of this amount, \$35 would go on the monthly paycheck, the other half would be put in the 6 month accumulative bonus check.

### Bonus "Up's and Down's"

Variation of shipping from production is one of the principal reasons for bonus fluctuation. If instruments assembled are not shipped, the profit share goes down. Conversely, when instruments assembled in a previous month are shipped in addition to the present month, the profit share goes up.

As Tektronix develops new instruments, the cost of producing these at first is abnormally high. Consequently shipments will be low along with the profit share. New instrument development is necessary for Tektronix to succeed in a highly competitive field; one-half of Tek's sales volume is based on instruments that were not even in production until the spring of 1954.

The profit sharing percent for June was 30; the previous six month period, 40.4. One reason for this is evident from the number of 540 series scopes nearly completed but still stacked around the plant.

## Cer. Head Orders Extrusion Equipment

Ted Goodfellow, ceramics head, attended a meeting on June 29 of the American Ceramics Society at the University of Washington in Seattle. While there, he investigated possible equipment for high speed production of electrical porcelain for Tektronix.

On July 12, Ted was again commuting to Seattle to make tests on samples of our clay formed on extrusion equipment at the Bureau of Mines building at the U. of Washington. Results have proved to be so satisfactory that new extrusion equipment is on order and will be in use within the month.

## New Coil Addition In Transformer Dept.

CVB 901 is a new small coil wound on a nylon form ¼" x 1". Two escutchin pins ¼" in length are threaded on the inside for a powered iron slug. The coil is used in a 541-545. The form is made in our own plastic department. It has 12 turns of no. 32 wire.

This now brings the total to 87 different small coils that transformer department winds in addition to 32 amplifier lines and 9 different small transformers.

## Aquatic Antics On Bauder's Golf

One balmy evening last week a jovial threesome set out to do the Orenco Golf Course: Dal, Bill Webber and Ed Bauder.

The gentle current of this pastoral playtime was punctuated by a short slice from Bill's iron that landed in a water hole. Ed Bauder, obliging egg that he is, volunteered to retrieve the ball floating innocently beyond arm's reach of the shore. Ed tripped down the steep bank, grasped a sturdy bush firmly and reached out—due to a misplaced confidence in one miserable shrub, Ed sank from sight.

As Dal and Bill watched, Ed, as suddenly emerged, spilling tadpoles, minnows and inferior crustaceans. Ed started to sputter genteel remarks, but before his mouth was empty enough to speak he was stricken dumb by the sight of Bill on the bank, writhing helplessly in uncontrollable hilarity. Considerate gentleman that he is, Dal kept himself under control by chewing the handle of his niblick, although he did have to wipe a few tears from his eyes.

As Bobbie Burns so aptly puts it, "A man's a man fur a' o' that"; Ed's well dampened dignity was soon redeemed. For one thing, he attained the objective—Bill Webber's ball—furthermore, he continued to slish happily through to the last hole, without even stopping for cough syrup. Here, lads, is a real sportman.



# Tek Talk

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## Community Service

An individual's aims or the aims of Tektronix can only be fully recognized in the climate of general public opinion that is informed and favorable.

An objective of citizenship is to serve and understand the needs of your community. It requires an unselfish amount of time, knowledge and sympathetic understanding. Tek Talk takes great pride in saluting a number of our people whom we have discovered serve our community.

Washington county school districts have recently elected Bill Webber to the board of Tigard Elementary and Ken Walling to the Barnes District. Old and trained hands are Dick Rhiger at Cedar Mills and Derrol Pennington, chairman of the board at Sunset Valley. Howard Vollum is now serving as a member of the board of trustees at Reed College and Portland U.

Serving the United Fund is the complete roster of Tek employees as we are a chapter. George Roussos is Tek's representative to the Washington County United Fund. Serving as directors are Bill Webber and Derrol Pennington. Newly elected to the presidency of the Northwest Greater Management Club is Henry Hasse.

Tek Talk is sure that this is only a small beginning of the many Tek employees who are currently working just as long and hard at many phases of community service. We would like to have a complete roster for a later issue of Tek Talk — not only for recognition but in order to pool information that could more effectively be used in the great need for community service.

## Flying Club Members Log Coast to Coast Flight

Coast to coast — is the latest flying club news as Jack Murdock and his passengers, Les and Maryellen Stevens logged 7860 miles on a business trip the last of June.

The Bonanza took to the air at 3:30 p.m. on June 15 from the Hillsboro airport. As night approached, the plane was circling over Hailey and Sun Valley, Idaho was the first port of call.

To make a safe trip over the Rockies, it is necessary to take off early in the morning before it gets hot; altitude is gained while the air is heavier and the Bonanza flew at 12,000 feet. A late start at 5:30 a.m. found the threesome heading for Cheyenne as the first stop over the Rockies.

En route came the first experience in trying to fly around storms and as Les puts it "where the brand on a Wyoming steer appeared to be too close." At Cheyenne the visibility was so limited that Jack was unable to spot the field and put the radio equipment into action. With help from the tower, the field suddenly appeared. After a landing of several hours waiting out pessimistic weather reports, they took off hoping to avoid thunder storms and flew through some rain to Des Moines as the next overnight stop.

Des Moines to Detroit with no weather problems, they landed at the Detroit City Field. This field services principally private and company planes and is 2nd in traffic in the United States with over 50,000 landings each month.

From Detroit the destination was Westchester, Connecticut, 25 miles out of New York and an appointment with Jack Cassidy, a fellow birdman. Again, great difficulty was experienced in spotting the field. Due to the industrial smog and smoke of the east, instrument reading is almost essential.

Warmly welcomed by the Cas-

sidy's, the flyer's were hosted at a lobster dinner. The next day found Les in New York for the National Accountant's conference of three days; the two Jacks went on to tour Syracuse, Boston, Poughkeepsie, Buffalo and Rochester.

Following the conference the Stevens' went to Bronxville and met Jack. Washington's National Airport was the next landing. After a day of sightseeing in the nation's capital, the trio flew back to New York and tried for the Newark airport. Again the smog interfered. After a half-hour exploratory tour over the area, Jack had the Bonanza on the ground. Met by Francis Frost of the New York office, the evening was spent in New York with an early a.m. take-off scheduled for Detroit. In Detroit, Tony Satullo, (a former Tek representative) played host for one of the famous Satullo spaghetti dinners.

The next day found the flyers in Chicago and a day and an evening with the Chicago field office. In the afternoon it was Kansas City. Each afternoon was spent dodging thunder showers and this was no exception. Kansas City to Topeka was next on the log.

Here, Jack and the Stevens visited the famous Menninger Clinic with Dr. Harry Levenson as their host. Dr. Levenson is to be partly sponsored by the Tektronix Foundation when he visits the Pacific Coast in September to study industrial relations in our area.

That evening it was back to Cheyenne and the next morning the Oregon boundary was sighted; simultaneously, with a rain storm as they flew down the Columbia Gorge. (But no smog.) Home and the Hillsboro airport was the finish of a logged trip of 65 flying hours. This is Jack's second transcontinental trip; he flew much the same route in 1954.

## Purchasing Department Has Household Stores Buying Headaches for 5,000 Items and 35 Depts.

Perhaps you have noticed the large glass window of the office just off the stockroom and on passing, heard the clatter of calculators, adding machines and the chatter of people on the phones. You have probably also noticed the invoices, packing slips and other such documents splashed around the desks in no apparent order. If you have, you've observed the purchasing crew plowing through a normal day's routine of ordering, expediting, rescheduling, complaining, cancelling or begging for material.

It is the job of the three buyers, Paul, Scott and Gene; the schedulers Warren and Jim; the secretary Barbara and the department head Fitz, to see that all the materials needed for production are in the plant when, and in the form they are needed. They are also charged with the responsibility for maintaining quality in the parts and seeing to it that they are acquired at a reasonable price.

### Stock Shortages

When the stockroom is out of an item, you may feel that someone has fallen asleep at his desk, but in most

cases these shortages are part of the game and impossible to avoid. For together with being responsible for getting the goods, the buyer or scheduler is limited as to how much he may have at one time. Besides tying up a large amount of the company's working capital, it costs heavily in interest, taxes, insurance, storage, handling and obsolescence to have shelf inventory beyond current requirements.

### 250 for 2,000

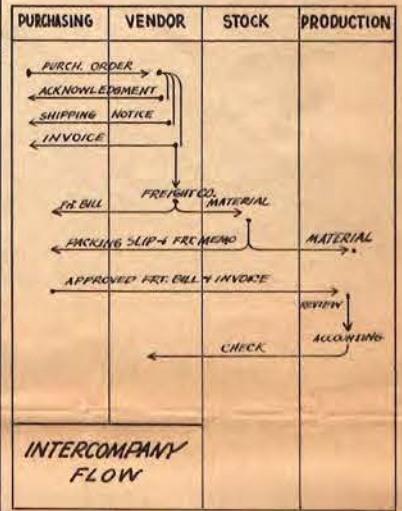
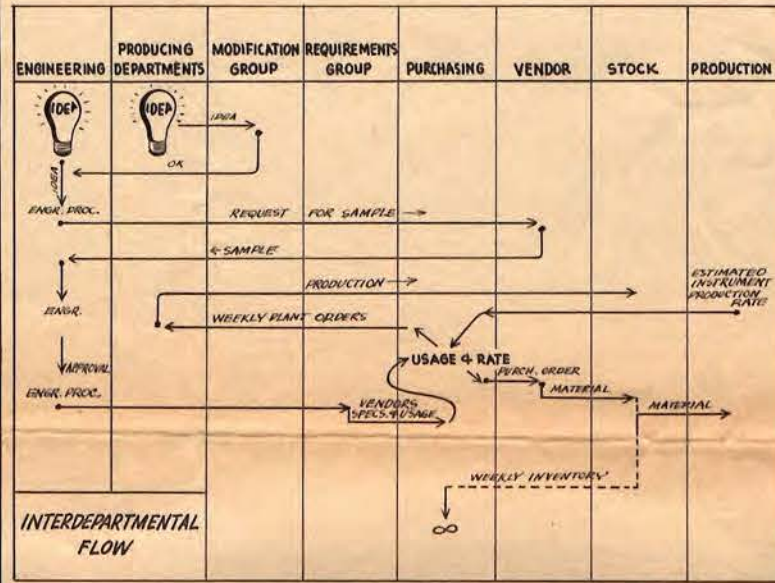
In jumping between the horrors of shortages and overstocking, the buyer finds himself fighting strikes, vacation shut-downs and shortages from our suppliers, as well as transportation tie-ups that delay the receiving of parts. On the other hand, modifications may increase the use of an item, a new instrument hits the line or production doubles to keep pace with the increasing order rate. All of these are the daily diet of the buyers. While they are haggling or developing relationships with our 250 suppliers, the two schedulers are scheduling the some 2,000 parts from Tektronix' 13 supporting departments. Here the quan-

tity of material may be even more critical as it includes labor which is very costly to carry on the shelf.

### Material Control

The present method of tying production to the incoming orders may seem demanding on material control but where a formal production control department, with its bills-of-material, routings, schedules and priorities may provide a smoother more efficient flow of goods, it does require more costly paper work, procedures and systems. This tends to hamper flexibility which in turn works against quick delivery of instruments. The loss of flexibility and extended delivery time to customers is a very real cost, however difficult to measure, and to date it is estimated that any other method would lose us more than it would gain.

Below are two charts that may illustrate what is involved in getting parts into production flow. It also illustrates the number of documents involved in getting one of the 5,000 items procured by the purchasing department, into your hands.



## Gas Gauge Guess Is "Pilot Error"

## Oil Well Stock Pays Off As Test Ship Comes In

Most people take to the roads for a Sunday drive, but not flying club member, Don Ellis. Don took his landlady, Mrs. Violet Warren out for her first airplane ride on a recent Sunday.

In a non-stop flight, they followed the Columbia river to Astoria, down to Seaside and then up to Aberdeen, over to Bremerton and Seattle. From there they passed over Snoqualmie Falls, back to Tacoma and home to Hillsboro.

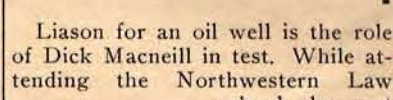
Don had made one fatal pilot error — he did not start with quite a full tank. At Kelso, a headwind started consuming more gas. Don had banked on a safety margin of a half hour instead of the usual 45 minutes on a gas supply. This equation did not balance as coming in for a landing the plane sputtered and the service station was not in reach. The Navion landed 170 yards short of the runway in a wheatfield and came to an eventful stop at a fence.

A few stitches and a few band aids for Don; Mrs. Warren suffered only minor bruises. At last reports, Don had not yet been evicted so we cannot point to the moral in this story—Don't run out of gas with your landlady as a passenger, even if she is a redhead."

### Tek's New Additions

Welcomed to assembly are Nancy Kokich, Olive Moser (formerly with the United Fund), Marietta Kilgore and Walt Dederick. Our clerical staff gained Diane Ross and Marjorie Guthrie (assigned to the engineers). Marvin Lemley takes his place in the shop.

Liason for an oil well is the role of Dick Macneill in test. While attending the Northwestern Law school, he met Lewis Dillman. Dillman's family have owned a farm in the Saskatchewan valley for years. Tests in this area led to a belief in oil deposits.



Next came the formation of Orecan, the Oregon-Canadian oil company. With the sanction of the federal securities commission and the state of Oregon, the company sold 111,000 shares of stock at \$1 per share par value in Washington and 100,000 in Oregon, mainly in Portland, Eugene and the Dalles.

### The Grapevine

Dick told some of his friends in test and we find that lucky stockholders now consist of Mike Park, Paul Jones, Roger Haight and Chet Harding. 4200 shares are now owned by Tek's test members.

Investors are now feeling mighty prosperous as their first well turned out to be "one of the biggest and best gushers" in the Williston basin of Saskatchewan.

Drilling started June 20. Oil was struck July 16 while core drilling, without the use of dynamite, which is the usual process. The gusher created a sensation in Canada, Shell

Oil company, which has about 1,000,000 acres of oil land under lease across the road from the Orecan well, immediately announced plans to drill a deeper well. Examination of test cores from the Orecan well lead Shell to believe there is another oil bearing strata below the one tapped by Orecan.

Ronald B. Sorenson, vice president of the Orecan company, with offices in Portland recently stated in the Oregonian the following information:

### Possible Potential

"Our geologist tells us it is probably equal to Quinn No. 9 in the same region, the best producer so far brought in. But it is too early to tell. We have had no test on the quality of the oil, and that can vary from a value of \$1 to \$3.75 per barrel. Also, we don't yet know whether we have another oil-bearing strata below the 4899-foot level, where we hit this gusher.

### No Dividends Yet

"In any case, we don't plan to start paying any dividends yet, much less \$1000 a month on a \$100 investment." We plan to drill two other wells immediately, then, if they are as good as they look, we will use the money to develop 24 other wells on the 960 acres of our holdings."

Sorenson also emphasized that the corporation was closed and that there is no stock for sale. Test has not yet decided how to spend their money but the oil well did come in.

# Bound for Sherwood Forest



Lavonne and Laverne Calvert with their mother Maxine are all set for another trophy as they display their bows and the quiver full of arrows that continue to bring them prominence at every archery event.

## Calverts Con Cups in Northwest

Tek Talk has discovered another celebrity in assembly in Maxine Calvert. Maxine and her husband, George Calvert along with their twin daughters, Lavonne and Laverne compete in the outstanding archery tournaments of the Northwest.

Residents of the Portland area for 13 years, the Calverts moved to the Cedar Hills section four years ago. George is originally from Michigan and has always been interested in archery. Three years ago he talked Maxine into joining the Sylvan Archers.

Maxine's biggest win to date was the "clout" event at the 28th annual Oregon state archery tourney at Cottage Grove in July. A 140-yard shooting event, the "clout" consists of archers firing a high trajectory and trying to drop their arrows into a nine-foot "gold", or bullseye. Maxine piled up a score of 243 out of a possible 324 to achieve the second

best tally recorded in the event since 1934 and the highest score in the last 12 years.

Lavonne and Laverne are consistent in cadet classes and come home with their share of trophies, too. On July 9 they were the runners-up at a contest at Bend.

With three potential "Maid Marion's" in the house, George Calvert has turned his garage into a workshop for the family's archery hobby. Much of their equipment is assembled or made completely in this workshop. The rest of his time is devoted to coaching his family and keeping the equipment in top shape.

Traveling every weekend during the archery season, the Calverts compete in most of the major tournaments in the Northwest. A growing collection of cups, trophies and silver arrows over the Calvert mantle attests to the success of this family enterprise.

June (ceramics) and Tom Ruyle (shop) were back at work on June 18 after a 2400 mile trip into Canada. Going as far as Edmonton, they took in the Calgary Stampede on July 11 and 12, stopped at Lake Louise, Banff and Glacier Park on the way home.

Ceramics received a letter from Dennis and Donna Kidd from Florida where Dennis is now in training in the air force. Dennis has soloed in T-6 trainers and is now commencing 2 and 3 hour flights by himself. The Kidds will soon be transferred to Texas where Dennis will start training in jets.

Congratulations are also in order for their new baby boy. Dennis stated that he likes flying but that he would also like to be working an 8 hour shift at Tektronix.

A 125 ton punch press was added to the shop equipment in June. They are now using it on no. 181 cabinets but intend to deep-draw sub-panels and chassis in the future.

Gordon Sloat was welcomed back to his transformer department on July 19 after a two weeks illness. While ill, he was presented with the customary pink shirt from his crew. It's inevitable—if you are a male, if you work in transformers and if

you are ill—it's a pink shirt. Gordon's is the seventh this year. (Only Sid's was purple as pink just isn't his color.)

Helen Ross (ceramics) reluctantly returned July 19 from a week's fishing in the Fraser River Basin in British Columbia—sunburned but a full limit of fish.

The Ceramics department has mixed emotions about the new member at Gene and Laurel Zirschky's. The Zirschky's after 8 years of negotiations adopted a baby boy who was born on June 20, weighed 7 lbs., 8 oz. and was christened Robert Guy Zirschky.

Young Robert arrived four days prior to vacation and the Zirschky's schedule is now beginning to coincide with that of their son's.

Laurel has now left her many friends in ceramics after 2½ years. In this department, "We'll miss her but we're afraid she will be too busy to miss us!"

Jackie Franck (ceramics) flew home from Los Angeles July 17 after spending a two week vacation in Los Angeles and Hermosa Beach.

"Behind every successful man, there is a woman." This statement,

often quite correct can well be testified to in the front office. Moving, removing, desk shoving, relocation of light fixtures, repainting—the final blow was suddenly the moving of a partition. Suddenly the man power in field engineering started muttering "coercion"—"what next" ... "ooh, not again". But at last reports, everybody's pleased. One problem only, will be to determine which desk, which chair and which file is mine! (But the field engineers finally admitted, it was a good idea.)

Derrol Pennington wants everyone to know that he has a beautiful lamp also and that the Boston office is not alone in their use of a discarded cathode-ray tube. Derrol's lamp was a birthday present and is complete with birthday greetings in four languages from some of the crt crew—German, Estonian, French and English.

In case you are interested in "Happy Birthday"—Derrol was simply told: "Palju onne sunnipaevaks" (Estonian); "Happy Geburtstag" (German); "Bonne Fete" (French); "Hartelyk - Gefeliciteerd" (Dutch). And they say that English is one of the most difficult of all languages!

Chuck and Juanita Nolan (engineering) with their son Keith took a two week vacation trip to California.

Those new rooms in the east end of assembly II are all ready to go. On the south side will be the new first aid and Tek Talk room. In the center will be the new credit union office and the one on the north will be a small office for group leaders conferences.

On a late weekend in June, the capacitor crew took their families to take advantage of the low clam tides on the Gearhart beach. Satur-



day by all reports was wet but Sunday the weather broke with a beautiful sunrise and a limit of clams.

Basking in the sun from left to right are: June Woolridge, Aldean Feitush, Harriet Anderson, Ruth Lukens, Kay Bartmess, Ruby Carter and in the foreground, young Bradley Feitush.

Wendell Furland, cable supervisor, was presented with Bermuda shorts and argyle socks before departing for his vacation by his crew and they are still waiting for the promised picture poses.

The coil department may not be the largest but it is certainly the most fragrant. Mary Daly has recently taken the agency for Avon products and samples are generously distributed.

Pride of the shop these days are the two impressive beards of Tim Kirtley and Emil Evans who are in there "growing" for picnic honors.

Frances Traver (assem.) spent a week of her vacation as a counselor at a children's summer camp sponsored by the Christian Emanuel church. The group was comprised of 50 children, including those of Helen Riley, Rhoda Chalupa and Laurella Thomas.

# — THE BIN. —

Dick and Gloria Montag spent a weekend of their vacation deep-sea fishing at Short Sands. Good fishing we understand—but we want to know from Dick how the fish bite in Wahtum Lake?

Visiting friends in Carson, Washington for a week were Ruth Smith (assem.) and her two children.

Betty Jones and Betty Spohn (assem.) and their children spent a vacation week at Seaside.

The Bill Lee's (stock) successfully trial ran their new Buick on a 2500 mile trip to Los Angeles and back. They found California hot and expensive and were glad to be back. We understand that some of the finer qualities of the new car were put to test in the midst of the snarled traffic caused by the transit strike.

Bill Sedig spent his vacation trolling on Siltcoos Lake. The cutthroats were biting and Bill came back a satisfied fisherman.

Don Wilson (stock) is still being given a bad time over his recent convalescence. During the 4th of July weekend, Don developed a strep foot—new to medical science and his fellow employees still think he went fishing.

Newest addition to the line of General Motors that the stock department's sphere of influence favors is Ray Wismer's new Rocket 88.

Usually the reporter goes to the person involved to get the correct information but Beulah Veach (assem.) says, "I don't remember a thing, but tell Marshall I'm sorry I caused so much disturbance on a time and a half day."

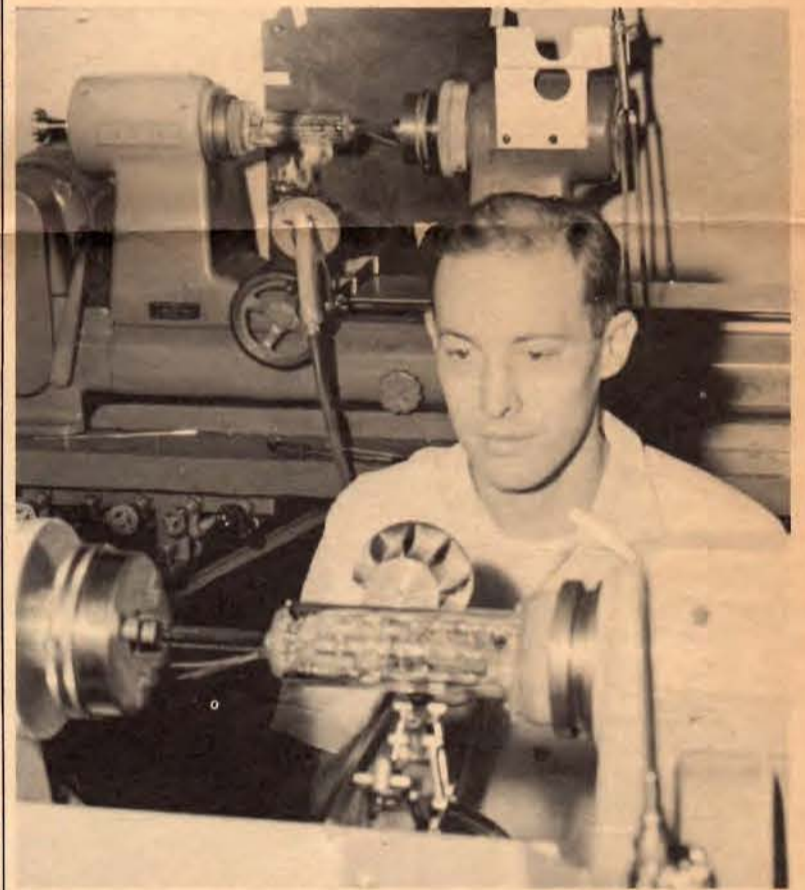
Beulah was rushed very suddenly to the hospital from the plant, but is now feeling very fit again and wanted to thank everyone for the cards and flowers.

Terminating from the Instruction Manual department on July 29th was Geri Duyck. The Duyck's are now making great plans for an arrival in October. Congratulations!

Kay Adams eyes are sparkling just as much these days as that shiny, new engagement ring that mechanical assembly has admired.

The Kubarsepps not only became new citizens on June 23 but went General Motors with the rest of Tektronix—that brand new Buick is a lovely thing.

Another vacation at home was enjoyed by Helen Clarke in assem.



Jack Neff displays his ability as he operates one of the two glass blowing lathes. One of these was just installed to enable the crt department to faster and easier ways of production. Jack can now work on two tubes at the same time; the lathe in the background is preheating a tube for sealing while Jack has time to seal the other one.

## Crt Solves Production

The construction of Tek's cathode ray tube requires three glass sealing operations, one of which is the joining of the glass stem which supports the wired electron gun to a given length of glass tubing.

As quotas grew and as production "bugs" were given a shot of DJJ (Derrol, John and Joe), it becomes apparent that this "stem sealing operation" needed some changes. This phase of crt production is done on a glass blowing lathe and consists of the following steps: Preheating with a large annealing torch; fusing the molten glass; annealing and cooling with the same large torch. Until recently this annealing torch was held by hand for approximately 7

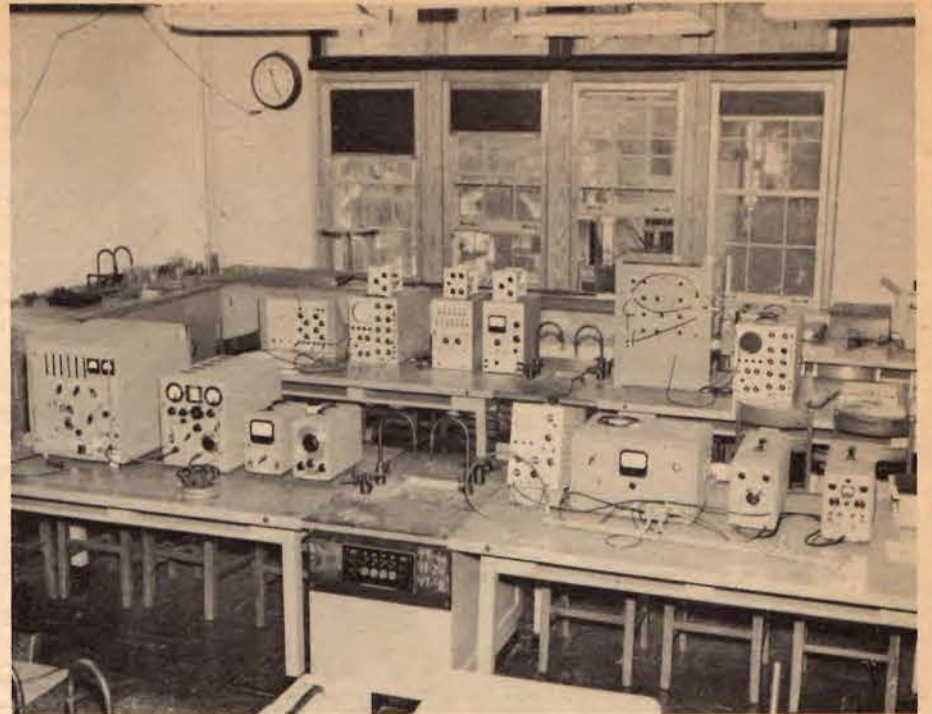
minutes per seal.

Space limitations prevented hiring another man and the problem had to be whipped. By using torch holding devices and purchasing another glass blowing lathe, one person could operate both lathes. Then while the area to be sealed is heating on one lathe, a seal could be completed on the other lathe.

This procedure worked. Gun assembly has more than doubled the sealing rate, increased the operator's interest and given him more time to devote to other work in the department. This is another one of many illustrations of Tek's principle of "Job Enlargement".



Dr. Guenter Schwarz, chairman of physics department of Florida State University, goes over some of the fine points of pulse generation, using a dual presentation oscilloscope to more clearly demonstrate some of the phenomena. Gene Dashiell, chief engineer of the Lynch company follows through. (Florida State Advertising Commission Photo)



For the past five years Arthur H. Lynch & Associates, Fort Myers electronics engineers, have taken the most modern equipment on tour. At Florida State University, the Physics Laboratory was scene of this recent showing. (Florida State Advertising Comm. Photo)

## Tek Takes A Tour With Florida Rep.

Tektronix is represented in Florida by Arthur H. Lynch and Associates who have just finished a series of electronics exhibitions in this area. The Lynch organization employs three engineers in addition to an office staff to service more than 1400 people on their customer list. Florida is one of the fastest growing electronic sales areas in the United States. After V-J day in 1945, only two bonified electronic companies were to be found in the entire state; the estimate now would be at least 2,000.

The Lynch road shows thus far in 1955 have shown Tektronix products to over 3500 people. These shows have been held in Key West under the auspices of the Key West Engineer's Club; Miami, auspices of the University of Miami and the Miami section of the IRE; Gainesville, auspices University of Florida and the southeastern section, American Physical Society; Tallahassee, auspices, Florida State University and the Florida state advertising commission; Panama City, auspices U. S. Air Force and U. S. Navy; Orlando, auspices, U. S. Navy; Patrick Air Force Base and the Elgin Air Force Base, auspices U. S. Air Force.

During the periods between these large annual shows, similar but smaller ones are flown around the state in Lynch and Associates company plane.

At a regular meeting of the Florida Electronics Representatives' Association in June, Arthur Lynch was elected as president of the organization.

## Summer Force Lists Additions

Tek's summer force has been augmented by the following students in addition to those printed in the July Tek Talk. They are: Michael Burns, John Dannermann, George Fullmer, George Joseph, Ruth King, Phil McEwan, Jim Maloney, Mike Metcalf, Larry Mills, Bob Mueller, John Myers, Joyce Neiland, Gene Paul, Don Schmunk, Irvin Sherbeck, Jack Singleton (all in assembly); in ceramics is Imogene Dittman; shop has Chuck Haase and John Reichen on deck for their second summer; test rates Bob Pramann, Dick Simonsen and Sam Tabshy; Jack Swanson was assigned to transformers and Carl Anderson who is an instructor is in engineering. (Jim Maloney also instructs at Wash. Hi.)

## Publication Racks

New this month are: "Your Job and How to Handle It"—eight good rules for getting your job done instead of it getting you down.

"How to Step Up Your Human Relations"—How well do you get along with people?

"Heel at the Wheel"—(He's the other guy, always?)

"Richest Man in Babylon"—A part of all you earn is yours to keep—that's what the book says, so why not read it and see!

## Gals Take Lead In Rod and Reel

The ladies continue to reel them in for the hottest entries in the De-Liar Fish Club's prize winning competition. With a single egg, Virginia Levens hauled in a rainbow from East Lake measuring 15½ inches. Donna Wojcik landed a 14½ inch cutthroat from Sutton Lake with a worm bait. Only man to place was Bob Guthrie with a rainbow entry from Silteos measuring 13½ inches.

The De-Liar Fish Club announced their list of grand prizes which will be awarded at the close of the fishing season on September 30 for the four longest fish. The prizes will be given to the winners—one man and one woman for the lake entry and one each in the stream division. No one is eligible for more than one prize and monthly winners qualify for the grand prizes.

The prizes will be: A Coleman folding picnic table with chairs valued at \$12.95; a Coleman camp lantern, \$11.95; a Coleman thermos set with 2 thermos bottles and a sandwich carton \$12.95; and a Coleman camp cooking kit with service for 6 at \$12.95.



Lots of excitement in the crt department over the new arrival at the Les Keisling household in the person of Philip Andrew, born on June 23 and weighing 9 pounds.

At panelcraft, cigars were passed by Joe Jasper celebrating the arrival of a baby girl weighing 6½ pounds on June 23.

Many congratulations passing in Bob Herren's way with the arrival of a baby girl weighing 6 lbs., 13 ozs. on July 5.

## Wedding Bells

Staunch and dependable Cy Woodworth, of test, finally succumbed to the feminine wiles of Florence Chapel, of Portland.

Cy and Florence were united in a lovely ceremony Sunday July 10th at Zion Lutheran church, and with approximately 200 in attendance, Cy has enough witnesses to prevent him from ever again returning to bachelorhood. Many members of the test department attended the ceremony, Julie Criger was Bridesmaid and Jack Day was Best Man.

Florence and Cy spent their honeymoon on Orcas Island in Puget Sound. Our best wishes to you Cy, and congratulations for such fine taste in picking your new boss.

Chuck Carrol (transformers) was married on June 25 to Sharon Clawson at St. Patrick's Catholic church. The newlyweds spent a week honeymooning in Washington before returning to Portland.

Prior to his wedding, Chuck was presented with a gift from the transformer gang. Angel food cake topped with strawberries and whipped cream was served by the coil girls to celebrate the occasion.

## United Fund Poster

The three-dimensional poster currently circulating around the bulletin board circuit, graphically tells the story of how our United Fund dollars provide year around recreation facilities for our children through the following agencies: Boy Scouts, Camp Fire Girls, Catholic Youth Organization, Friendly House Community Center, Jewish Community Center, Linnon Community Center, Neighborhood House, Volunteers of America Community Mission, and the YM-YWCA's.

Kate Probstfield (assem.), member of the UF Committee, was responsible for the art work.

## More Vacations

Margaret Ryan (mech assem.) spent her vacation visiting her daughter. Margaret is waiting to be a grandmother but at last reports, we don't know whether it's pink or blue.

Shirley Stevens is back again after a leave of absence. Small matthew is now at home.

Greeting all of her friends at Tek was Darlene Adams, home on leave from the WAC's.

Kay Barker took a long vacation trip with a trailer house and fished all the way.

Edith Groshong spent her vacation admiring her new home and helping her husband get the lawn in.

The other big event in the Groshong vacation was getting son Don ready to leave—Don is now in the Marines.

# Pan Am Commends Tek's Salesmanship

In the July Tek Talk, field engineering defined our company's idea of salesmanship. We quote,—“When a customer buys a Tektronix instrument he buys a lot more than a piece of machinery—he buys our interest, the full interest of every employee in his technical welfare, our hopes for technical success, and our assurance of responsibility for the continued usefulness of his equipment.”

Forwarded to Tektronix from our Florida representatives, Arthur Lynch Associates, came a letter from the Pan American World Airways System at Patrick Air Force Base. Pan Am along with several other companies is responsible for the operation and maintenance of this base which is the nerve center of a long range proving ground for guided missiles.

Pan Am's electronic's buyer had had this to say—“I would like for you to pass on to the people of Tektronix our appreciation for the service they have given us. It is true that all of our contacts with these people have been by telegrams and letters but the fact remains that the service has been excellent.”

“As you know all of our orders have been for small items for spare parts. However, this does not alter the situation any. They handle these orders in the same expeditious manner as they would large orders.”

“Spare parts are of the utmost importance here at Patrick because we

have hundreds of pieces of equipment to service and maintain and without these small spare parts our function here at this facility would be greatly hampered.”

“In view of the above it would be greatly appreciated by all concerned at this Base if you would explain our appreciation and gratitude for the service we have received.”

## Bowling Marathon Draws Tek Keglers

Don Pratt (assem.) and Gisle Borlaug (printing) two of Tek's potential bowlers attended the Maxie Kosof Endurance Classic bowling tournament in Ogden, Utah while on their vacation. The boys bowled for 13 and a half hours straight with two-10 minute breaks. About 32 states were represented.

The unique event got under way about 7:30 in the evening and lasted all night until about 8:45 the next morning. The boys said they conditioned well for the tourney by sleeping all day and staying up all night while they were there (which they said wasn't very hard to do). With their bowling thumbs still convalescing they say they don't expect to be in the big money, but they had lots of fun anyway.

# COMPARE!

### What is the Fifty-four Club?

It is the modern way to pay your debts. For example if you need \$1000.00 to pay your bills, this large amount may be obtained from the club and may be repaid in 24 monthly payments of only \$54.00. If you need less cash—for example \$500.00—payments would only be \$27.00 for 24 months.

The above paragraph was torn from an advertisement released by a well-known Portland finance company.

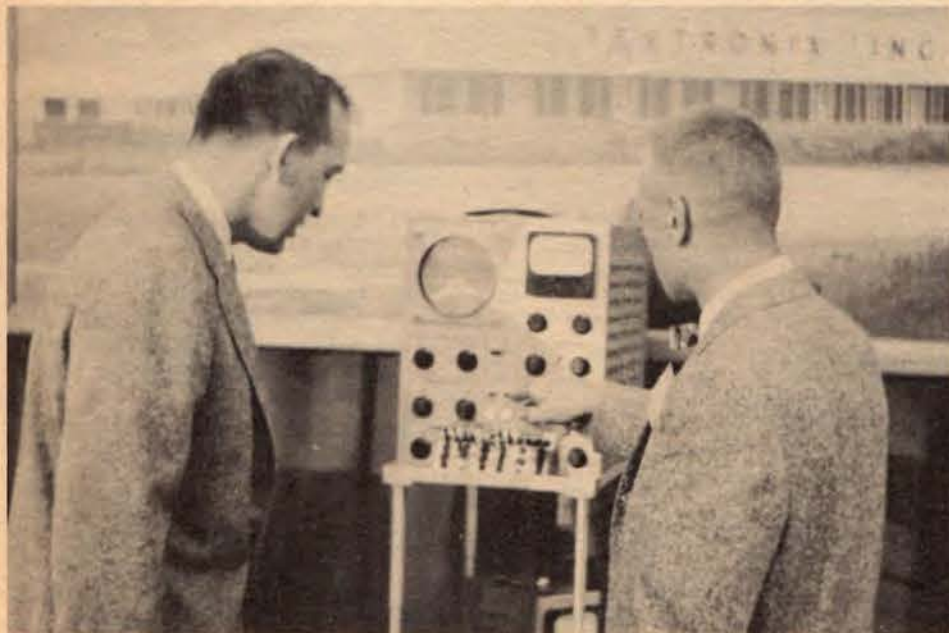
DON'T BE FOOLED . . . COMPARE THE BORROWING COSTS . . .

Borrowing the same amount of money for the same length of time from your Credit Union would cost you only \$46.88 a month ----- an interest savings of \$7.12 a month. Multiply the monthly payments by the number of payments in each case and see who offers the best deal. You, too, will be surprised. DON'T BE FOOLED BY THE INTEREST RATE . . . FIND OUT THE LOAN COST AND THEN COMPARE WITH YOUR CREDIT UNION.





## Western Electronics Show and Convention Takes Tek to Frisco



Checking Tek's scope with Ed Bauder at the WESCON show is John Davis of Neely Enterprises.



Tektronix scopes score an interest as Jack Zilhovey, sales manager of Varian Associates and Noel Edred, sales manager of Hewlett-Packard view our instruments.

### July Profit Share Hits 30 Per Cent Retroactive Action to be Added

Tek Talk, in line with its promise last month, will attempt an explanation of July's 30% current profit share, unchanged from June. You received half of this in your August 5 paycheck, and the other half was retained to be paid in December.

Shipments and sales in July were slightly less than in June. However, there were about ten less employees, and one less working day. Since the amount of overtime was about the same each month, the smaller sales were offset by the smaller payroll; thus 30% both months.

#### Shipping Ahead In June

In June more instruments were shipped than were completed by either test or assembly. During July test completed a little more than was shipped, some instruments waiting for export clearance. Assembly reported completing 40% more in July than in June, tho many, especially the 540 series and the 517's lacked parts. There were approximately 200 "540" series scopes that "looked" ready for test at the end of July.

This indicates that assembly has gotten over the "hump" with the new "540" series, but that test is just getting its chance to develop smooth efficiency on them. New instruments, the lifeblood of Tektronix, reduce output the first few weeks. As soon as several of these nearly finished instruments are shipped in addition to all current production, the current profit share should have some higher months.

#### Expansion & Profits

Profit share calculation and explanation are more complicated than this and last month's Tek Talk articles indicate. Uncle Sam and Congress and the Oregon State Legislature can manipulate it in a rather mystifying way. If you consider your future to be with Tektronix, you realize that money paid out in taxes slows our expansion and in some cases reduces our profit share. In spite of the pleasant working conditions, friendly attitude and feeling of participation, Tektronix would not be a good place to work unless it were profitable and able to use a share of these profits left with Tek-

tronix to expand. It is this profit left, which is used to hire more engineers to create new products, build more buildings, buy more efficient machinery and provide more higher paying jobs over the long pull.

Part of the tax law Congress passed in 1954, called "accrual of estimated expenses and prepaid income", brought business taxes more in line with good management practice. It allowed Tektronix to pay a little less tax, and retain a little more for expansion.

#### Retroactive Law

This year Congress repealed that part of the law, and for the first time in history, made it retroactive to a previous year. This repeal had the effect of increasing Tektronix income, requiring Tektronix to pay more income tax for 1954. As a result Tektronix then has to pay more to current profit share, as well as to the retirement trust, for last year.

Before the end of the year, the Retirement Trust account of each of last year's employees will be increased. The contribution from Tektronix will be increased from the announced 8.37% of 1954 pay to 8.64%.

This also increases the current profit share for the period ended May 31, 1955 from 40.4% to about 42.47%. This additional amount will be added to the December profit share check of those who worked last period. Since the law was not repealed until June, those who terminated before the end of May will not receive this increase but it will be added to those who stayed.

### Bave Boy Lost

Tek Talk expresses its sincere condolences to the Milton Bave family who lost their four year old son, Grant, on August 27th in a tragic drowning accident at their home in Vancouver, Washington.

Milton Bave was one of the original founders of Tektronix in its beginning at Hawthorne Electronics. A minor stockholder, he sold his interest to our company two years ago.

### Tek's Teletype Diane's Debris

Most unusual teletype dispatch in recent weeks was received on August 29th from the Boston Office, as follows:

#### TROUBLE CALL

TYPE 315D — S/N 1598 — VERT. AMP. — (Boston-VF-8/17/55)

Complaint: No vertical positioning of the trace.

Remedy: Replaced V12 (12BY7) tube.

#### August 18

Spent the day in the office as hurricane 'Diane' was starting to make herself known. Roads were starting to wash out so I was unable to make any calls.

#### August 19

Spent the day sweeping water back out the front door of the office as the waves came over a curb when an occasional car or truck would pass by. We dimly surveyed about a foot and a half of water in the basement here. Were informed by the police, fire and sewer departments that we warranted a call from them only if the water was six feet deep or more. The only damage resulting was three dozen shipping cartons, three changes of clothing, and a well-soaked secretary. (Wet, that is!)

#### August 20

Came down to the office to check for any further damage from the storm. Everything was still intact.

### Short Form Catalog

Many of us at Tektronix are located in spots where it's not easy to get a good overall picture of the instruments that are the result of our corporate effort. We see some of the instrument here and there, but we don't have any way of comparing one with another.

With this issue of Tek Talk is one of our short-form catalogs, and each one of our products is described briefly. All the instruments are included with two exceptions, the 123 and the 515.

### Annual Wescon Show Attracts Many 570 Exhibits in All-Industry Show

The 1955 WESCON (Western Electronic Show and Convention) was held in San Francisco on August 24, 25 and 26. This year the show was in the Civic Auditorium and a huge portico adjacent to it. Convention headquarters were at the Fairmount Hotel.

WESCON is one of the two big annual shows participated in by Tektronix each year; the other, is the IRE show in New York. Each year prior to the event, many weeks of overtime and concentrated work are put in by Dick Ropiequet and his crew of design and development engineers; and, each year these efforts are rewarded by the excellence of Tek's products, performance and display.

This Western show is held on alternate years in San Francisco and Los Angeles, is co-sponsored by the San Francisco and Los Angeles Sections of the IRE, representing the 7th region, and the West Coast Electronic Manufacturers Association. It is set up to promote the interests of the electronic and nucleonic industries and operated on a non-profit basis.

This year the exhibit space was enlarged to take care of more than 570 exhibits, the greatest number in

the history of WESCON. Displayed were the products of more than 650 manufacturers and over 20,000 engineering, technical personnel and business executives attended.

An all-industry show, WESCON represents a cross-section of electronic manufacturing and research throughout the nation. All facets of industry were included: Production, distribution, sales representation and government participation. Admission is by registration only and only persons in the field of electronics or its allies are allowed to register.

Tektronix exhibited its entire production line with special emphasis on the instruments recently introduced which included the 541, the 545, the 570 vacuum tube curve tracer, 123 pre-amplifier and the 515 oscilloscope in both bench and rack mount versions. Much comment was also received on the always popular 531 and 535.

Attending the WESCON show from Tektronix were the Howard Vollum's, the Dick Ropiequet's, the Cliff Moulton's, the Chuck Nolan's, the Jim Morrow's, the Bob Davis's, Jack Murdock, Earl Scott, Roger Haight, Dal Dallas, and Ed Bauder.

### Farewell Presents Terminating Tek

Farewell gifts were reluctantly given to Tek personnel in August — and we always hate to say "goodby." Donna Kidd and her air force husband were sent a table lamp; Geri Duyck a duster and cologne; Dwight Loomis, cuff links and a tie clasp; Ruth Faber, a blouse; Monica Van Munster, a steak knife set; Omar Sommer, a gift certificate for fishing equipment; Vivian Brown, a 2-year subscription to "Changing-Times"; Dick Macneill, a billfold; and Bill Rusca, a billfold.

Eleanor Ross is being welcomed by 'all hands up front'. Eleanor has been in assembly since June, 1951 and has recently been transferred front office way.

### First Aid Center In Assembly Two

All first aid problems have now been centralized in the new room at the east end of Assembly II. Norma Caufield is the person in charge from 7 am to 3:30 each day. This will relieve Barbara Lawson from active duty but she is being retained on a First Aid committee. Doctor and hospital forms and any questions about insurance are also being handled by Norma. Please get your forms at this new centralized location.

Contributions for Tek Talk are now to be put in the box in Norma's new room. Norma will continue to coordinate these efforts along with the editorial committee soon to be announced.

# Tek Talk

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## Tek Talk Adds Contributing Staff

Beginning with the October issue of Tek Talk, we will list our contributing reportorial staff who each month gleans information, bits of gossip and news of special interest to Tektronix employees.

The staff consists of rotation reporters who are selected and contribute in much the same manner as the group representatives.

Present members are: Engineering, Margie Guthrie; crt, Clara Knox; mechanical engineering, Armon McDowell and Slim Sorenson; manuals, Audrey Duyck; field engineering, Will Marsh, Fran Egan, Jack Day; front office, Yvonne Hoffer; export shipping, Orpha Enmark; cables, Margaret Clymens; mechanical assembly, Margaret Ryan; unit wiring for assem. 1 and 2, Reggie Green, Betty Jones, Wilma Stapleton, Corky Hymes; stock, purchasing, Phil Mallery; test, Sandy Sanford, Pius Scheer and Lloyd Sharp; shop, Al Foleen, Duncan Bergeron and Hank Jones; transformers, Jane Tomkin; ceramics, Helen Rohwer; panelcraft, Lois Rieschel.

The Tek Talk box is in the new first aid room. Norma Caulfield will assist in coordinating news reports.

## Credit Union Adds Staff Member Hours Change to 11:00 to 4:00 p. m.



In charge of the Credit Union office is Sylvia Bean who took up her multiple duties in mid-July. Credit union hours will be from 11:00 to 4:00 p.m. each day. Sylvia previously worked with the Southern California Gas Co. and has been in Oregon for this past year.

Tek's Credit Union like all of its brother organizations exists to promote thrift and savings among its members and to provide a service of low cost borrowing for productive and provident purposes.

Although its functions are many, the credit union is constantly used for short term emergency loans, car

financing, hospital expenses, consolidation of debts, vacation money, home repairs and the financing of furniture and appliances. Loans are made after application to the credit committee who meet weekly to consider all requests.

It is easy to save and to pay back by means of payroll deduction which also makes possible easy withdrawals. The credit union is protected by loan protection insurance and life savings insurance. In addition it offers for free the services of a notary public.

In the last six months, Tek's Credit Union has shown a phenomenal growth. Assets have increased 18 and one half per cent; loans, 46%; and shares, 14%. To date the Credit Union has opened 565 accounts.

Dividend expectations payable annually are approximately 4%.

Dick Schmidt, treasurer of Tek's Credit Union will continue to supervise CU operations. Dick is really CU conscious this year. He has just completed organizing St. Peter's Parishioner Federal Credit Union, is secretary of the Oregon Mutual Credit League and is on the board of directors of the Oregon chapter of Credit Unions.

## Personnel Dept. Loses Liason



A sorry area of emptiness toward the front of the building will soon be noted by all of us. For those who can't somehow identify it, this void is left by one of the warmest personalities that radiate among us. Anticipating a new arrival, Irene Garvey is taking a leave of absence for a space of time not yet defined.

Since September '52 many an apprehensive applicant has been made to feel at ease by those laughing brown eyes, and many an article for Tek Talk pried out of a reluctant writer when Irene was editor.

We see her leave with mixed emotions, for, while we need her badly, we know how glad her husband Jack, daughter Pat, and son Mike will be to have her at home. Anyhow, Irene, all the best!

## Scopes Shown In Italian Exhibit

Tektronix is represented in Italy through CESA-Elettronica headquarters in Rome. Closing on July 10 was the Rome International Electronics Exhibition whose pictures were sent to us by Mr. A. Suglia for use in the current issue of Tek Talk.

Eight foreign countries were represented, 100 industrial concerns displayed their products, 14 foreign delegations, and over 50 scientists of international renown attended the exhibition which also attracted 200,000 visitors.

The electronics show was also attended by many political dignitaries. In the shot shown below, the three gentlemen watching some of the instruments are (from left to right) Mr. Tremelloni, former state secretary of finance; Mr. Mastromattei, M.P.; and our Mr. C. Albanese. In another part of the picture is Mr. G. Gronchi, president of the Italian Republic and our Rome representative, Mr. A. Suglia.

This event is the second international electronics display to be given in Rome. According to our Italian representatives, CESA-Elettronica, it afforded them an opportunity to demonstrate many of Tek's instruments.

## "Tek-Tones"



"Give us the key, Gene" — that's the beginning of Tek's new harmonious four who go by the label of Tektronix "Tek-Tones." Left to right are: Corwin Hymes (inspection, bass; Bob Duhrkoop (stock and purchasing), first tenor; Gene Cavanaugh (purchasing), second tenor and melody; and Bob Jackson (finaling), baritone.

To the strains of "Old McDonald" came a new lyric, "Howard Vollum had some scopes — Tek — tron — ix" and the annual Haymaker picnic listened and applauded to our new quartet's first public appearance.

"Tek-Tones" are hoping to become an established quartet. Marybelle Rash has consented to make arrangements for the "barber-shop" four. To gain experience, confidence

and develop a technique, they are now courting engagements before organizational groups.

February is their goal with the famed Forest Grove Barbershop Quartet Contest. If they feel that they are good enough for the competitive field, Tek Tones will enter. In the meantime, we'd like the opportunity to hear them practice on us. Good singing!

## Tek Gains Twosome Purch & Test Merge

Tek gained a new twosome on August 20 as Barbara Lawson marched down the aisle to say "I do" to Lloyd Sharp (test) at a 10:00 am ceremony in the First Congregational church in Portland.

Acting as flower girl was "Sandy" Sue, Barbara's small daughter. The family affair continued with Lee Stanton, Barbara's sister-in law as her matron of honor and Lloyd had as his best man, Ted Ranck, his brother-in-law. Byron Witt and Harry Stewart of Tek's test department were ushers. Giving the bride away was Dick Stanton, Barbara's brother.

Also on hand to give a ship-shape inspection was Stanley Sharp, Lloyd's son who has just finished his 'plebe' year at Annapolis.

## Additions Welcomed

Crt is now boasting over the additions of Elinor Tuttle and Doris Uhrich.

Marcela Treglown and Marcelle Buel (sister of Mollie Robbins assem.) are now in capacitors.



That long awaited blessed event finally happened in the Fitzgerald household and Bob and Jane became parents of Mark Stephen on Aug. 7.

Passing out cigars for the the junior parade is Bill Lee in stock. On August 15, Bill became the father of Rodney William Lee, weight 45 pounds and age, five years.

Number three, and three boys it is for the Byron Witt's as David Warren weighing in at 6 lbs., 8 1/2 oz. joined the ranks on July 31.

August 11 is the birthday of Cynthia Marie, newest to the Miller Duris (capacitors) home.

Stock claimed another proud papa in Dale Tyson. Roger Dale arrived August 2, 1955 at 7 lbs. 14 oz.

Slim Riggs (shop) is taking all congratulation on the arrival of Robert Jay on August 4, 1955.

July 31 was the birthday of William Kenneth, newest arrival to the Francis Frost's in Tek's New York office.

# Tektronix Exhibits At Rome International Electronics Exhibition



# THE BIN --- 'SCOPES AND SCOOPS'

## Haymakers Have Hoedown At Picnic

First, hats off to a swell crew who did a bang-up job at the picnic. A special thank you to the picnic committee of Bill Barnes, Harlow Loucks, Don Sherrod, Earl Pahlka, Irene Wilson, Bob Cogan, Corkey Hymes, Norma Caulfield, Hallie Todd and Reva Strong. Generous assists were given by Jim Cook, Jim Strickland, Nellie Anthony, Kay Barker, Rhoda Chalupa, Helen Clark, Elaine Kinsman, Helen Riley, Lois Scott, Dave Shelton, Vera Sigler, and Helen Sherrod.



Pop-drinkin' "Pops"

Real competition developed in the handicaps presented in the pop drinking contest. Warm soda pop capped with baby nipple tops proved as explosive as home made root beer. Ivan Arnold came in first.

Competition in a field of three gave Emil Evan's (carpenter) the first prize in the beard growing contest and now our favorite punster has only one remark — "For 'Evan's sake, please shave it off."

Paul Wright came through and won the poster contest. Production won the soft ball game versus the engineering building although there is still some dispute, we understand, as to the final score.



The Get Away

Everett Knox lets the greased pig out as the starters eagerly await the signal "Go". The good-sized porker gave the junior field a run for their money picking an obstacle course fit for the U. S. Marines. After a battle of near misses, "I almost had him" and squeals that matched his own, the piglet was trapped.



The Winner

It was a family affair, as Everett Knox helps Tommy bring home the bacon. Officially christened Elmer, our porker is now living happily at the Knox's two acre farm with all the other animals — first treatment included a bath.

In a field of 20 "kissin' couples"—Jim and Helen Morrow came through the marshmallow and several yards of string to record the stickiest kiss on record.



For Women Only

Most widely participated contest at the picnic was the rolling pin throwing contest with each and every contestant eager to prove her skill. Entrants were required to use the same technique needed in pitching horseshoes—but here the rolling pin took over and its destination was a wobbly produce basket. No 'ringers' were allowed and Mrs. Harry Stewart won the honors.

### Mountain Climbers

Dave Spinks, Supervisor of the training group, left August 11th for vacation. He and his wife, Joyce, made an unusual trip in Monument Valley, Southern Utah, by jeep. Then up to the Tetons to meet friends and do a little mountain climbing. Photography is Dave's most important hobby, and he probably has well over a hundred pictures of their trip. Perhaps, he'll bring them to work some time so we can all see them.



They're Loaded

Water-filled balloons with the distance growing each throw provided many a laugh and quite a number of soakings.

One of the best ideas of the day came in the "getting acquainted contest" labeled "friendship". Everyone was given a blank sheet of paper and via introductions, each collected signatures. Gaining the most friends at the end of the day was our charming French import, Collette Herrick.



"Time Out"

Big ones—little ones—even medium-sized haymaker's made hay. Vital statistics included 2880 bottles of soda pop, 350 pounds of barbecued ham and beef each, 50 gallons of coffee and 1200 ice cream bars and dixie cups.

Grand door prize winner was Vern Walker (tech. production) who won the deep fryer; the first door prize went to Helen Riley (shop) who won a barbecue set.

### Aloha Oe!

According to Jean Berlack, her two-week trip to Hawaii was worth every penny. She's already started saving for another.

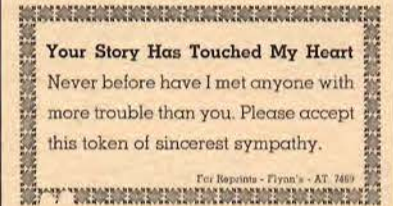
The first-class trip over on the boat took four days, but she was so busy having fun there was no time for 'relaxing'. Tours of three islands took up all the available time during her stay in Honolulu. Then a flying trip home by air on Sunday, and back at Tektronix on Monday. There is still a lot to see and more things

to do on her next visit, says Jean. She is a real source of travel information, so don't be afraid to ask her for ideas about things to see, where to stay, etc.

Henry Scott of the instruction manual department is sporting a brand new haircut. This "scalping" is the result of illegally camping overnight on an Indian reservation while in Canada on a 2-week vacation with wife Betty, and son, Gary.

### Really Sorry!

Complaints to purchasing regarding out of stock items are now receiving "sympathy" cards from gagsters in the department. On the oc-



casions of future complaints, be sure to bring your card. All cards are acknowledged and punched. Recipients of punched out cards are promised free crying towels.

### Crt Travels

Crt vacations have found Vern and Florence Walker in east and central Oregon finishing up their trip in Idaho. Ella Hanson elected to spend a backyard vacation. Clara Nnox and her six youngsters had a week's vacation at Cape Lookout. The following weekend found the Knox's back at Newport for a weekend of fishing where they landed a Royal Chinook.

Adding to the decor in the crt department are two rock specimen's from Rose Duane's collection. An August vacation trip took the Duane's to northern Idaho where Rose an ardent rock hound found a desert rose and a snake agate in Rome, Idaho.

Tek Talk extends its sympathy to Martha Hanson on the death of her father in Belgrade, Montana.

A weekend trip to Vancouver, British Columbia and Washington has convinced Henry Bahrs (drafting) of two tone styling. Poster paint experimentation has resulted in flamingo red and sandpaper tan—and it looks like a new V-8!

### 'Jalopy' Racer



Entering the 'Jalopy' races at the Speedway and Jantzen Beach is Bob Carroll, finaling. On August 7, Bob won the first heat against a field of six cars. One more race is scheduled this year. Next season, Bob intends to make an entry in the 'stock' car division.

### Front Office Junkets

Greeted back from vacation in the front office include Helen Helmick who took a part of her vacation for 'necessary household chores'—a family beach trip is next.

A welcome sight was Em Langdon who came back after two weeks with her family vacationing and camping through Yellowstone Park and the Grand Tetons. A stop-over also included Sun Valley.

Grace Gibson and family spent a

few days at the beach which included playing, relaxing, swimming, fishing and added Grace, "washing dishes, sweeping, cleaning, cooking, etc!"

Jean and Vern Hanson spent part of their vacation visiting in Redmond and eastern Oregon. The rest included "window shopping" for a house and "taking it easy."

The Jack Day family chose Victoria, Seaside and Long Beach where they visited friends.



The gals in the front office are still gnashing their teeth over Don Kepler's switch from the switchboard. Maryellen Stevens moves back to the personnel office to replace Irene Garvey. (Everything's wonderful, they just are going to miss her!)

The switchboard vacancy will be filled by the combined labors of Ada Mae Wilson and Yvonne Hoffer. Relief's have been temporarily provided by Margie Miles.

### Scientific Tours

Still talking about the WESCON show are some of Tek's engineering staff who combined their vacation time to coincide with the show. For field trips, wives were allowed to attend. They included a visit to the University of California Radiation Laboratory in Berkeley, a tour of the scientific division of Beckman Instruments, the facilities of Eitel McCullough, Inc., Ampex Corporation and Hewlett-Packard Company and a visit to the Stanford Research Institute in Palo Alto.

Lorraine McNeil's daughter Joyce returned last month from the state softball finals in Klamath Falls. Joyce plays shortstop for the Forest Grove "Meadowlarks". Oswego won the championship this year and an invitation to the world tournament in Portland this month.

The "Meadowlarks" are Marybelle

Rash's favorite team. Marybelle has played first baseman for the last six years up until this year.

### Sailor's Delight

Taking off on a unusual vacation August 24th was Hawkin Au who with a friend signed on as part of a crew of 8. Cruising on a chartered 58-foot schooner through the San Juan's with their start being Deer Harbor is the order of the ship's log. One of the top cruising areas of the United States, we envy Hawk this trip—we even like the name of the motor-sailor—"The White Cloud."

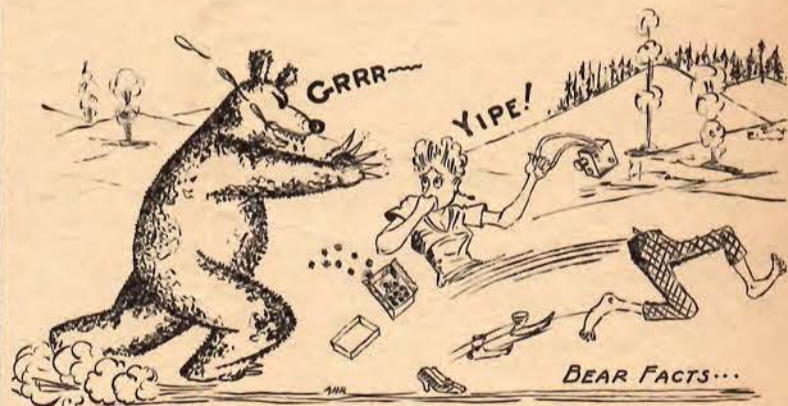
Just getting back from an exploration of the northeastern part of Oregon was Gale Sikler's choice of vacations. Photo fan, Gale recorded the trip in black and white and color. For beauty and the fun of exploring in a primitive area, Gale recommends the route between Innaha and Hot Point on the Snake River. Roads are not the best but the layover at Wallowa Lake makes the trip worth while and Gale added that between the fish and the bathing beauties in the lake that a choice of sports was difficult.

Tek rejoices with the Bill Webber family in the fortunate recovery of their son Bob, who was stricken with polio on August 19th. Bob is still in Emanuel hospital but is making satisfactory progress.

### "Hanky" Shower


Cheering up Mrs. Brown who is still convalescing from August surgery were Barb Ekstrom, Clara Knox, Marybelle Rash and Alvina Fry who organized a handkerchief shower. Clever gals made up a booklet of paper doilies for holders, had our good-natured printing department punch the holes and put a plastic binder over it all. Next stop was Good Samaritan.

Harriet Anderson (capacitors) has just returned from a vacation to Reno and California. Harriet's report was that a misplaced cow on a public highway is apt to slow up any vacation.



Just back from a Yellowstone vacation is Aldean Feitush (capacitors) who has always gone on the theory that I love "nature" and in return "nature" loves me. Aldean has blithely calmed and patted stray animals of all descriptions but her theory

has now exploded. A bear is simply too big and Aldean admits that they have more wind and stamina than she possesses. Her last encounter took the services of 3 Yellowstone park guides to divert the bear in order that Aldean could escape.



Throughout America, citizens of all races and faiths ... over 15 million of them ... are uniting now in a great humanitarian undertaking. Men and women, boys and girls ... all are volunteers in a mighty fund raising campaign.

Dependent upon their efforts are over 21,000 welfare services ... services that protect babies and and children, give guidance to boys and girls, and bring peace of mind to older people, care for the sick and handicapped and help troubled families.

United Fund Campaigns, held each fall in behalf of local and national voluntary health welfare and defense services, are everybody's business.

Be a volunteer in your town's United Fund campaign. Multnomah and Washington county's United Fund month is October.

## Photo Fans Have New Film to Try

by Ed Egan

Eastman Kodak, during the past year, has come out with several new films. Among these is one film of special interest to the snap shooter as well as the serious-minded amateur or professional. This new film, called Tri-X, is a high speed film ASA 200 without the usual drawback of high speed film; that is, excessive graininess. Though twice as fast as Super XX it has much finer grain. It is, of course, not as fine grained as Plus X, but Plus X is an extremely slow film by comparison.

### Extreme Latitude

One of the outstanding qualities of Tri-X, other than its high speed, is its extreme latitude; that is, its ability to record detail in the low level shadow area as well as the brilliant high lights. With most films, an attempt to record some detail in the shadows, usually leads to such over-exposure that the resulting print yields little or no detail in the high lights. With Tri-X, however, over exposure accomplishes two important things with only one slight disadvantage. First, it allows the film to receive sufficient exposure to record detail even in extremely dark shadows while the high light density does not build up to an extreme. Second, this effectively lowers the contrast of the original scene which is desirable where the range of the original scene varies from dead shadows to extreme high lights. However, along with this same over exposure goes a slight increase in graininess, though not objectionable unless extreme enlargements are anticipated.

### Shoot like Plus-X

For those who have been shooting Plus-X film and getting lots of negatives too thin in the shadow areas to make satisfactory prints, it is recommended that you use Tri-X and shoot it as if it were Plus-X; that is, consider its speed to be the same as Plus-X and shoot accordingly.

### No Flash Needed

This over exposure technique is not, however, the only advantage of this new film. Quite oppositely, its use is extended to scenes where the maximum light intensity of the scene is far below the capabilities of ordinary fast films. Tri-X can be successfully exposed at an index of 800 and over developed by 3 times normal in a fine grain developer and yield very satisfactory prints. Pictures under normal room light, with no flash are now easily obtainable.

It is also interesting to note that this same film has been found through a series of tests here at Tektronix to be the most effective film for high speed waveform photography.

## Income Tax Aids Working Students

In a recent addition of Portland's dailies, appeared an item of interest to all Tektronix parents and to our summer student help.

R. C. Granquist, district director of internal revenue reminded parents again that they may claim an exemption for a working son or daughter even if the child does earn more than \$600. Many queries have come into the revenue service in these summer months and Granquist stated that children could work right up to the reopening of school if they wish.

Parents may claim working children as exemptions provided they furnish more than half the total cost of the child's support for the year.

For the benefit of our summer student help, they are reminded that they are subject to a withholding tax on Tek's payroll and in order to get a refund, they must file an income tax return.

The district internal revenue office will answer question regarding individual cases. Tek's Don Ellis will also be glad to answer any cases pertaining to employees of Tek.

## Posies For Patients

Sending flowers this month to Tek's convalescents included Lou Thomas, Lucy Benton, Beulah Veatch, Lee Penson, Charlene Goodman, Jack Henderson, Betty Hull, Vivian Brown, Donna Wojcik, Dick Phillips, Edna Ulrich, Ron Wold, Mart Kubarsepp, Maxine Edgerton, and Lois Aulger.

## Blood Bank Gains 85 Plant Employees

Tektronix would like to extend its "Thank you" to all employees who have donated blood to the Blood Bank for Tektronix. There have been two occasions recently on which the 'Bank' has been used by families of Tektronix employees. They are sincerely grateful. We all feel better knowing the protection is there, and ours, should we have the need.

So far, over 85 plant employees have donated one or more pints to the Bank. More have pledged and will be called upon in the future. Norma Caufield has the pledge cards, and is making an effort to schedule donors ahead for a month or more. The Red Cross furnishes transportation upon request, and to make things easier, Tektronix employees usually go on Tuesday of each week at 1:45 p.m. and get back at 3:30 p.m. If you have any questions about donations or would care to pledge, please call her on Ext. 221, First Aid Room, or go in and see her.

## Flying Club Plans For Fall Takeoffs

The Tektronix Flying Club plans a reorganization to attract new members. Plans discussed at a recent meeting include the purchase of a newer airplane, a move from Hillsboro to a more convenient location, Barnard Airport at Beaverton, and opening the club to people not employed at Tektronix.

The Flying Club wants anyone interested in joining to have a voice in the selection of the airplane. If you are interested, please ask president, John Taylor to let you know when the next meeting will be held.

Also underway are plans for a ground school starting this fall. Other activities, such as social gatherings, group trips, and educational meetings are planned for the fall season. Steps are being taken to assure the availability of a flight instructor for beginning flyers.

## Plastic Production Shows Big Increase

Starting two and one-half years ago, Tek's plastic department has grown and expanded into many phases of our production. The beginning saw 7 parts produced on two presses.

Today, plastics are producing a total of 90 parts on five different presses. In a three month period of May, June and July, 22 new parts were put into production.

The plastics used in this work are urea, alkyd, nylon, tenite, vinyl, polyethylene, polystyrene and plexiglass. These plastics are used in different ways such as compression, molding, injection molding, plexiglass, fabrication and forming. One of the more interesting operations is plexiglass forming wherein the material is heated and bent or actually molded to a shape.

The department is now producing 35,000 parts per month and can see no end to the use of plastics in the electronics field and especially at Tektronix.

## Tiny Tyke Gifts

The Les Kiesling's received a yellow corduroy creeper set with pants clearly embroidered "Don't Spank" and a sweater set.

Shirley Steven's baby received creepers and sleepers.

The Bob Herren's preferred a dress and polka dot diapers for their baby daughter. The Fitzgerald's are now admiring Mark in sleepers and plastic pants; the Miller Duris's received a 3-piece sacque set and polka dot diapers; and the Slim Riggs', a yellow blanket.

## Wedding Gifts

Congratulating our newly married couples, Tek's Gift Fund presented the Cy Woodworth's with a kitchen clock and a Tahitian torch for their garden.

To the Lloyd Sharp's went an Osterizer.

To them both went Tek's sincere congratulations.

## Tour and Retour

Who in all Tektronix has the most miles behind him? If Dal had continued in a straight line, and not stopped off to waste time eating and playing golf, he could have reached the moon and already started back.

United Airlines recently presented Dal with a gold pocket card, a pin, and a handsome plaque attesting to his 200 thousand miles of air travel. His actual total is on the order of 260 K miles and does not include the milage in his own plane.

## Filters From Our Field Offices



Scotty Pyle

Well known for those famous Scotch headdresses. Lives in North Syracuse, N. Y. about 10 miles from the office. His wife, Jane and three youngsters, Linda, Randy and Cathy make up the household. Rumor has it that he just blew himself to a new set of golf clubs.



Ann Dwinelle

Lives about a mile from our Syracuse office with a couple of working

girl friends. She owns and drives a 1950 Studebaker and on many occasions has dropped Tek people off at the Syracuse airport. She says she skis at skiing and golfs at golfing!



Gordon Allison

Lives in North Syracuse near Scotty. His wife Evelyn, and one daughter, Cheryl, man the home front while Gordon is in the field. Same rumor has it that Gordon has new clubs also.

Best rumor we know is that we understand Scotty Pyle will be at the home office in September.

## Wedding Bells

Wedding bells rang out also on August 20 for Cathy Rolphe (assem) who married Robert R. Grammer in the South Tacoma Baptist church in Tacoma, Washington. Congratulations!

## Stockholders Buy Geiger Counter For Uranium Vacation Prospecting

Latest device to hit Tektronix is the acquisition of a Geiger counter by a select group of stockholders that include: Vern Walker, Bob Leipzig, Nancy Goodman, Ken Walling, Jack Henderson and Les Stevens. The Geiger counter is jointly owned and should any of the owners hit uranium, profits are evenly distributed among the ownership. The stockholders have also agreed that they will rent the Geiger counter should a weekend or vacation period arise where none of them will be using the instrument.

Vern and Florence Walker have just returned from their vacation in the Steen Mountain area with the Geiger counter and a week's prospecting in the area. They were also in the Trout Creek mountains where they reported one scenic spot whose lofty elevation looked down and across the states of Idaho, Nevada, and California. Did they find uranium—well, no—but they got a lot of experience!

Vern quite willingly shared his observation in "how to do it." Mainly, he said that you look for any unusual rock formations and those are tested. Uranium ore does not look like ordinary rock and color is an important clue, along with weight.

From the U.S. Atomic Energy Commission, Vern received some more valuable information on the Geiger counter's use. The counter has three calibrated ranges approximating a high, medium and low. A rise in the reading may be caused not only by the presence of uranium but also by other factors, of which the most important are: (1) the background count; (2) the "mass effect;" and (3) the presence of thorium.

The background count is the count

that is always registered by the instrument, even at a distance, from radioactive ores, because of cosmic rays and random gamma radiation. The prospector must remember to record this count and subtract it from the total count. Most rocks have some degree of radioactivity, and some have more than others. For example, the background will be higher above or near granite or rhyolite, than above or near limestone or dolomite.

"Mass effect" means that a large mass of weakly radioactive rock may have, as a whole, enough radioactivity to affect the counter, although the radioactivity of a small piece of the rock is slight. When this is the case, the prospector may find that his counter shows a noticeable reaction near the large rock mass but a sample removed from the mass will have little effect on the counter.

The presence of thorium is the most confusing. Thorium is a radioactive element like uranium, and a number of minerals contain thorium. The radiations emitted by uranium and thorium register on most counters in the same way, and chemical tests may be necessary to determine whether the radioactivity is coming from uranium or thorium.

These three factors must always be kept in mind. But in general terms, if the Geiger counter registers a recorded count two or three times the background count, the prospector should study the region more closely and should attempt to locate the precise source of the radioactivity.

Now, all you have to do is arrange far a camping weekend, with rich uranium deposits near by (not thorium, remember), rent the Geiger counter and on the multiple proceeds, retire for life.





Pictured here along with some of Tek's test men are a few customer maintenance engineers currently taking advantage of Tek's 2 week training course. Purpose of the training course is to enable customers to maintain Tektronix instruments at peak operating condition. This is a unique service offered by our field engineering department.

## Vollum Starts October United Fund Drive In Tek's Annual Single Solicitation

To emphasize the importance of Tek's annual single charity solicitation for the United Fund, Red Cross and the March of Dimes, the employee's committee of George Roussos, chairman and Norma Caufield, Blanche Cook, Yvonne Hofer and Irene Garvey planned a succession of events.

First and of major importance was a meeting of Tektronix employees where it was planned that Jack Murdock, Howard Vollum and Derrol Pennington would each tell their fellow employees their own individual thoughts on the matter.

Jack Murdock puts Tektronix in the position of out-Uniting the United Fund years ahead of the one single drive used for the last three years in Portland. It has been of some gratification to Tek to see the community following our lead in a single charity drive. Perhaps, even polio may join forces with the UF.

Howard feels that Tek's drive is of major importance to each individual and the community. Derrol, a member of the Board of Directors of the United Fund in Washington County, thinks that it is important as a factor in the area of our plant location.

Through the first week of Octo-

ber, ten minute tape broadcasts went out over the P. A. system utilizing the tremendous talent of our employees. Tek-Tones provided 8 numbers including new arrangements of "Coney Island Babe", "New Moon" and barber-shop numbers including "Dry Bones" — we are safe in saying everyone's favorite. This harmonious foursome consists of Corky Hymes, Bob Duhrkoop, Bob Jackson and Gene Cavanaugh with the arrangements made by Marybelle Rash.

On the tape, Bill Webber gave an introductory explanation of the Drive. Yvonne Hofer and Will Marsh gave the radio-type continuity. Through the efforts and aid of Jim Strickland, radio station KGW donated their fine facilities for Tek's tape broadcast.

The entire presentation was geared to show the benefits derived through an average wage earner's contribution of one hour's pay per month for a year, which will provide as much as 500 glasses of milk, 83 meals for a child, 15 auditory records, etc. Solicitation in the plant has been carried out by a representative in each group. Any late contributions may be made in the personnel office.

## Bad Beginning Just Famed Psychologist

### Becomes Bad Ending Visits At Tektronix

Kurt, six year old son of Bob Leipzig (acc't.), isn't sure yet if he even likes school. He hasn't had much of a chance with all the confusion and happenings of the first day. Two buses failed to show up so his mother took him in the family car. The return trip wasn't any better. Losing the Sister who was acting as a guide at St. Cecilia's school, he attempted to find the bus himself. He found his size against him and was jostled around — once, he almost made the bus to have the door close in his face. Soon he was left alone and all the buses were gone. Undaunted, he headed for home on foot via Bertha Beaverton highway. (Right direction, too!)

At this point, Kurt was picked up by his frantic mother and found that the day looked brighter and play was in order. Wrestling with a neighbor lad proved his undoing, and a "bumped" shin resulted.

As the next day dawned, Kurt was reluctant to go back to school. His greatest problem was that there was no sign of injury to prove he wasn't trying to get out of school. A visit to the doctor with Dad followed and an x-ray disclosed a break. Now, Kurt is convalescing in a cast for six weeks and Bob has a new role of professor to keep him up with his class. Better luck next time, Kurt — and don't be too rough on Mom, she's had a tough time.



Assisting in sponsoring the visit of Doctor Harry Levinson, Topeka, Kansas, of the Menninger Foundation September 19-23 in the Portland area was Tek's Foundation.

Dr. Levinson is a psychologist who is making a complicated industrial mental health survey. He was appointed to the Menninger Foundation's department of social application in January, 1954, to undertake a study of the extent and expression of emotional maladjustment in industry. One of his early findings was that three-fourths of all the absence in any given year are found among one-third of the workers. He stated, "Still ungauged are the real costs of employee turnover due to emotional reactions to the job, low morale due to supervisors who are insensitive to human feelings; errors, rejects and seconds due to social and industrial pressures which exceed human limits, etc."

Levinson spent a month in all on the Pacific Coast where he visited with people interested and concerned about problems of industrial mental health. He investigated the type of problems they are dealing with and their solutions. This involved interviews with employees, psychiatrists, industrial physicians, personnel men, executives and almost everyone who is involved in industry as well as university departments in various labor areas.

While in Portland, Dr. Levinson spent more than a day at Tektronix, met with the Northwest Personnel Management Association at a dinner meeting, was the dinner speaker for the Greater Portland Management Club and guest speaker for Portland's City Club.

## New Features Start

Starting with this issue of Tek Talk, two new features are being established. One, is a "Letters to the Editor" section and the other is "Questions and Answers". Both of them started by your contributions. Tek's editorial staff will welcome your contributions and remember the new deadline is the 20th of the month as Tek Talk's publication date has been advanced to the 10th.

## Customers Train In First International Relay Made By Scope Maintenance Amateur Operators in VHF QSO Test

Visiting Tektronix this week is James Costello, of Bell Telephone Laboratories in Whippany, New Jersey. His job at Bell Labs is to keep measuring instruments properly calibrated and in working order. Like many others who visit us from time to time, Jim is in training on maintenance of Tektronix scopes.

It is possible for a competent technician to become fairly proficient in scope maintenance by working things out from the instruction manual. He cannot, however, learn many of the shortcuts and techniques that are part of every Tek testman's bag of tricks. In addition to these important tools, our visitors also learn something about our general philosophy.

Tektronix gains in two ways by this training program. First, we feel far more confident that our scopes in the field will get the careful attention they merit, without having our field engineers spend their time repairing scopes. Secondly, our visitors bring back to their laboratories their impression of Tektronix — not only how we build scopes, but the many things that enable us to build the best. Nobody goes around exhorting us to be pleasant to these guests, but we hear later how well-impressed they were by the people at Tektronix.

Roundtop Mountain, near Timber, an elevation of 3,150 feet on Saturday morning, September 17. Warrant officer in charge of the National Guard group was Mike Park, station W7RET (test) and two others of the communications unit, guardsmen Don Pratt W7UPZ (assem.), and Ron Van Dyke W7PIZ of Tek's transformer department.

For the international relay, Ralph Harris, W7OKV, took his equipment to the top of 7,000 foot Mt. Ashland to pick up the relay from California and sent it on to Jim Strickland, W7SEZ. The message was a greeting from a California operator, K6AM, who went into Mexico with his equipment to station VE7FJ, New Westminster, B. C.

The VHF QSO contest opened at 2 p. m. on Saturday and ended on the next evening at 11:00 p. m. Amateurs from all over the nation at home or set up on a mountain top vie with each other in seeing how many stations may be successfully contacted during the given time period.

The procedure is to work as many stations on as many VHF bands as possible. One point is counted for successfully confirmed exchanges of

Taking part in the first international relay of a message from Mexico to Canada over the VHF amateur radio system was Jim Strickland

(test) who along with other Portland operators participated in the semi-annual VHF (very high frequency) QSO (radio conversation) sponsored by the American Radio Relay League.

The contest is open to amateurs who can work any band or bands above 50 megacycles. This was also a National Guard activity in order that they may function effectively in time of emergency. Jim joined a National Guard party who loaded two ¾-ton trucks and headed for section information on 2 or 6 meters, 2 points for such QSO's on 220 or 420 Mc., and 3 points on 1215 Mc. or higher bands. To determine a final score, multiply this sum of contact points by your section multiplier, which increases by one when the same section is reworked on another band. A station could also be reworked for credit on additional VHF bands.

A certificate is awarded to the top scorer in each ARRL section. In addition, a certificate is given to the high-scoring Novice, Technician and multi-operator station in each section from which three or more valid entries in these three special categories are received.

Jim stated that the frequency used on the Roundtop operation was halfway between Channel 6 and 12, approximately 145 megacycles.

# Tek Talk

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— Hank Jones	— Wilma Stapleton
— Duncan Bergeron	— Corky Hymes
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Ceramics — Helen Bohwer	CRT — Clara Knox
Panelcraft — Lois Bieschel	Manuals — Audrey Duyck
Front Office — Yvonne Hoffer	

## Give the United Way!

Where youth is served, where children are protected, where the ill and the troubled are given help and understanding — there everyone leads a healthier, happier life.

You help provide these values for your town when you contribute to your United Fund — the services it provides make your community a better place in which to live.

United Community Campaigns for voluntary health and welfare services are now in progress all over the United States and Canada. Give your share — give gladly, the united way.

### Discussion Groups On World Politics

Information racks throughout Tektronix carry an invitation to join in a stimulating adventure of ideas. Participants are now being formed into discussion groups of 30 for a ten-week series on World Politics. The program is to help participants develop sound and independent opinions on world affairs. The readings used in the group give expert opposing points of view which help you understand those ideas you will reject, as well as those which you accept, and so develop a background on which to base your own opinion on world problems.

The program which is national in scope, being offered in over 100 cities in the United States, is under the local sponsorship of the World Affairs Council of Oregon, Inc., and Reed College.

Four groups in World Politics are being offered in the Portland area this fall. Beginning the first week in October, two will meet on Tuesday evenings, one at the Unitarian church in Portland, the other at the Bethel Congregational church in Beaverton; Wednesday, a group will meet in the Oregon Educational Association building and Thursday on the Reed College campus. Each registrant receives a bound 3-volume set of readings to provide background for the discussion.

Cost of the series which includes the books is \$12 for one or \$18 for a married couple. All groups meet from 8-10 p. m. Groups are limited to 30 members so pre-registration is advisable.

This is a wonderful way to widen acquaintanceship and make new friends among thinking people who share your interests. Further information may be obtained from the brochures or by calling CA 3-2822. For those who feel that they cannot do it at this time, there will be another series offered in the spring.

### Tek Adds New Link In West Germany

Quite recently negotiations started by Dal on his visits to Western Germany were concluded with the firm of Rohde and Schwarz-Vertriebs-GmbH to act as Tektronix distributor for that country. This company is well known in the electrical instrument manufacturing in its own right and has an enviable reputation throughout the world for its engineering skill and the excellence of its products. Their present distribution organization is headquartered at Berlin with branch offices in Munich, Hanover, Karlsruhe and Köln, all well staffed technically to provide service to present and prospective Tektronix customers in Western Germany.

### Health Conference Held for Northwest

Attending the Pacific Northwest Industrial Health Conference at the Multnomah Hotel on September 12 and 13 were Jack Murdock, Don Kepler and Bill Webber.

Industrial health programs can best be defined as a program to increase productivity by reducing or removing the financial loss caused by physical or mental illness and injury. Three major points were brought into the two day discussion in order to accomplish this objective. First, by stopping disease or injury through proper supervision of materials, processes, environment and work habits. Second, by maintaining and improving health through enlightened educational and supervisory programs. Third, by providing adequate medical and surgical care to restore health and earning capacity promptly, when accident or disease occurs.

Jack Murdock acted as the moderator of a panel entitled "Health Programs for Small Plants."

### Tiny Tek

Adding harmony to the Tek-Tones these days is a new addition to the Gene Cavanaugh's. Cheryl Anne arrived on August 17. This now makes an even score for the Cavanaugh's with two boys and two girls.

Bill Sedig (stock) became the proud father of a 7 pound, 13 oz. baby boy on September 18. He has

been named Mark Allen Sedig.

Too late for a Tek Talk deadline, but now a growing concern in the Ed Bauder household is Gary Ed who arrived on August 23.

Cindy Davis, small daughter of Joyce Davis (assem) chose to have her birthday on September 8.

### Questions & Answers

This month's questions and answers are necessarily technical. They were contributed by Jane Tomkin one of Tek's reporting staff who put Gordon Sloat, head of transformers in the professor's chair. We would like to invite questions of any type and hope to interest contributors in a variety of questions ranging from company policy, the use of our instruments, Tek's position in the industry, etc. Contributions should be placed in the Tek Talk box in the First Aid Room. They may be signed with your name, initials, or may go in anonymously; we would prefer to have them signed should any question result from the query.

**What is the background of the electric transformer?**

The electric transformer is the most efficient of two basic electrical machines, the other, the dynamo. These consist of a combination of magnetic core material and insulated conductors, usually copper.

Both are based on principles dating back to the first observation of electrical phenomenon about 600 B. C. (Electricity comes from the Latin word *electrum* meaning amber.) The first electricity (static) was produced by rubbing amber with silk. Then came the first published electromagnetic data by Gilbert in 1600. Next step was Volta's book in 1799. In 1831, Faraday's experiments provided the basis for modern electrical machines. The "Electrical Age" started in 1865 with the development of practical dynamos.

**How do we use a transformer at Tektronix?**

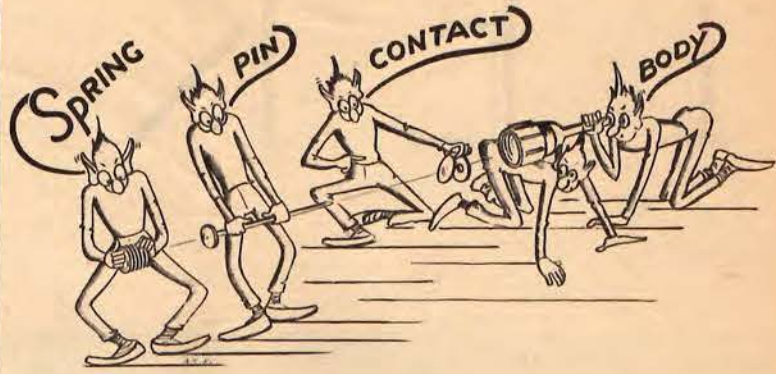
Our use of the transformer is to permit power to be transmitted at a convenient voltage (or pressure) and then stepped up or down to suit our needs. Most of our transformers at Tektronix are built to operate from the power line or primary voltage and convert this voltage to high-voltage to operate our instruments. As many as 16 separate voltages are provided on one transformer.

**Isn't this a complex unit?**

Yes, our simple machine becomes complex because efficiency must be obtained and our space and size (weight) is limited, and all power loss is heat. Through careful design, selection and processing of important tools, our visitors also learn sulating materials, combining with the correct amount of copper conductors and magnetic steel laminations is the story of our transformers. Each one is designed for production, in addition to specials for plant use and development. Our transformer department started due to the general dissatisfaction with any existing transformers that could be purchased. Tektronix is the only oscilloscope manufacturer that can make this claim and is another reason for Tek's commanding position in the instrument field.

### Information Racks On Eye Efficiency

Of interest to everyone is the material in the Information Racks. Of special interest at this time, are the pamphlets on the care and preservation of eyes. This is pertinent to the type of work at Tektronix. Speed and accuracy depend so much on our eyesight. Headaches and eye fatigue counteract our capabilities and efficiency. We cannot replace a damaged eye, only repair and aid a defective one. But we can take care of those we have, for the betterment of our health and happiness. Efficiency is often hindered by eye-strain, and quite often glasses have been the help in raising the rate of speed and accuracy. A yearly check up is one sure way of guarding against the fatigue and detriments of poor eye-sight, and the pamphlets in the Information Racks may point to something we've overlooked about the care of our own eyes.



### New Probe-Tip Shown In Pilot Stage

Tektronix's engineering department has developed a new probe-tip for tracing high-frequency signals, which reaches a new high in utility, simplicity and efficiency. As the illustration demonstrates, there are very few metal parts, and those are small, introducing a bare minimum of undesired capacitance.

The body is nylon, providing for all but the business end. The pin may be left straight for penetrating the insulation of wire, or bent into a hook which may be swivelled, still maintaining positive contact with the rest of the probe. This feature con-

tributes substantially to the establishment of "hands-off" connections, which is a troublesome problem with other types of tips.

The new tip, which will be a valuable accessory to the 540 series 'scopes with their extended high frequency response, is the result of the collaboration of a large part of our engineering staff, including a substantial amount of mechanical engineering on problems of manufacture. By present indications, the results in application will fully justify the time and effort expended.

### Retirement Benefits

This month Tek Talk starts another series of articles explaining Tektronix Deferred Profit Sharing and the Retirement Plan it provides for you. Even tho the Employee Manual explains the essentials of the plan, there are many aspects that concern you as a participant which should be reviewed frequently. Two of these will be discussed in this article.

If you are planning a leave of absence, or if you terminate, see Don A. Ellis. He will explain your rights to you, and make sure you do not miss out on something you have earned. Urge any of your fellow employees who may not have noticed this reminder to see Don.

Your first contact with the plan was when you started work as a permanent employee. You received two cards, one chocolate and one vanilla, and were asked to fill them out. These were beneficiary cards with which you designated those you wanted to receive your share of the fund should you pass on. You handed in the chocolate card, and were asked to retain the vanilla card with your will and insurance policies.

As beneficiaries, you usually designate those near and dear to you. As the years roll by, those you wish to help may change. You may marry, and have children, or tragedy may strike removing one from you. In order to be sure your share of the fund will always go to those you wish, be sure to keep your card on record with the Trust up to date. See Icel in Personnel when you wish to change or add to your beneficiaries.

Here is an example that actually happened in another plant that illustrates the costly consequences of neglecting to keep beneficiaries up to date. The wife of a long time employee died. He made his daughter beneficiary. After remarrying, he neglected to designate his new wife beneficiary. The daughter grew up and married, no longer needing her father's support. When he died, the very substantial benefit went to the daughter rather than the widow as he had intended. The daughter realized his intention, and did turn the settlement over to the widow. But here is the tragedy. She had to pay a substantial and unnecessary gift tax first, and was able to give the widow only part of the benefit.

Most of us hear when you marry or add to your family. Yet we seldom remember to remind you that you probably want to change your beneficiaries. Are yours as you want them?

### "Mr. Talent" Winner Goes Up to District

On September 19, the ceramics department joined forces to view and applaud the "Mr. Talent" show at KPTV with Loretta Goodfellow as the television contestant. Loretta won by virtue of playing a tin whistle and ended the number by playing two whistles at the same time. She is now to compete with other district winners for a trip to Hollywood.

Father Ted who is also the head of Tek's ceramic department is almost as proud as his department. (We're willing to bet that Ted did some coaching here. He has been a serious student of the flute in addition to many other instruments for years.)

### Blood Bank Donors

Tektronix Blood Donors have rightfully earned the title of LIFE-LINERS.

During the last few months there has been a blood shortage at the Red Cross Blood Bank. Blood has gone out as soon as the laboratory tests were finished. The one and only reason for this situation — low blood production and outright bloodmobile visit failures due to the lack of participation of the general public. They cannot distribute blood they do not collect. It is impossible to distribute 5 pints of blood to 25 hospitals or to determine which of 10 hospitals should receive the last pint of O positive blood in the bank. Each hospital, each doctor, or each worried relative feels that his is the most worthy case. What could you do in such a situation? Would you try to eliminate the cause for this dip in Blood production? 30 Tektronix employees did in August, 27 were accepted.

The usable life of a pint of whole blood is 21 days. BUT there is NO BLOOD LOSS. Say there is an emergency call for whole blood. The decision that not as much is needed. Because of the slow return to the bank, the blood has passed the 21st day. It is turned over to the laboratory to be made into derivative products such a gamma-gobulin, used so much in polio treatment.

To keep a continual flow of usable blood to those in need is one form of Community Service performed by Blood Donors.

Credited to Tektronix's Blood Bank 86 active donors  
 End of August: 27 pints  
 Total Bank Credit to date: 117 pints

# THE BIN...

# "SCOPES AND SCOOPS"

One of Tek's favorite places is the Snack Bar now presided over by Elsie Rohrer—and we are willing to bet that she meets and greets more members of the Tektronix family than anyone in the plant. Now we find out that she is a writer as well. Elsie is a transplanted Mid-Westerner who came to Oregon seven years ago with her family. Home was formerly Bagley, Minnesota where she was a reporter for the Farmer's Independent. She now writes a column for the Hillsboro Argus on West Union Community News and is the publicity chairman for the West Union Community Club.



Elsie's other occupations are the Four D's. Eldest is Darrel, now serving in the submarine service but scheduled for home in January. Donna is presently working in a mortgage loan office. David started at Hillsboro high school this fall and Darlene is a 7th grader at the West Union Grade School.

Taking off in his plane for a two week vacation was Don Ellis the last week in September with his passenger, Henry Haase. Destination was Fort Worth, Texas where Henry was spending time visiting friends and relatives. Don flew on to Wisconsin and Michigan to visit his friends there. Itinerary then called for a back to Texas stop and home via southern Colorado.

All the assembly girls had a wonderful time planning for and surprising Irene Garvey with a going-away shower. On August 24, they gathered in the conference room during lunch time, then Icel Schroeder maneuvered Irene for the "Surprise." The gift was a personal one of gown, robe and slippers, color-schemed in pink and rose. Cakes with baby dolls on one, and booties on the other, carried out the pink and blue baby theme. The new little Garvey's mother is, more than ever looking forward to its arrival, and her best reason—to wear her lovely new things.

Next on the list of surprises, Allen Tuttle used the old gag of a "complaint" to lure Irene to the shop for a combination farewell and baby shower. Irene was then shown a huge cake with a flower decorated horseshoe and a wish of "Good Luck, Irene" which was both the motive and the refreshment. A portable baby jumper in yellow was the gift selected through Ed Brookes, official host for the party. Quote: "The warmth and friendliness of the shop boys will always be remembered and treasured," stated Irene. (Our unquote, the feeling in the shop is mutual.)

From July Kaiser Aluminum News Other 'Scopes'?

Been looking for any uranium lately? Whether you're entered in the government's \$35,000 atomic sweepstakes, or just want a few atoms to decorate a coffee table with, you'll be glad to know that you can purchase an aluminum "Uranium-Scope" for less than \$4.00. Precision optical parts set in an aluminum tube let you (and we quote) "see the bombardment of the atom." Distributed by Kosco, Inc. of California as a "scientific and educational gift for all," the "Uranium Scope," unlike the higher priced Geiger counter or scintillometer, gives off no noise at all. Silent, sturdy, corrosion resistant, the "Uranium Scope" is just the thing for the man who can take his atoms or leave them alone. (Field engineering take warning!)

The Miles family consisting of Harold (silk screen), Margie (front

office) and their daughter, Yvonne spent a two weeks vacation in Roseburg, Oregon with some side jaunts to the North Umpqua for fishing.

Gene and Lois Elliot (stock) with their twins, Wendy and Cindy spent five days in Seattle visiting friends and relations.

Helmuth and Silvi Kahlman (stock) and Olev Adamson (stock) spent their two week vacation in the Los Angeles area. A highlight of their visit was the convention of the West Coast Estonians. Olev distinguished himself by winning the Table Tennis Championship and now holds the title Champion.

Mart and Aino Kubarsepp with their daughter Anne spent a week at Breitenbusch, Oregon during the month of August. While they were there they enjoyed bathing in the hot mineral springs.

Dick and Jo Anne Millington (stock) spent their vacation in Bingham Canyon in Utah. While they were there they took in the Kennacot Copper Mine which produces one-third of the world's supply. Moab, Utah was also on the itinerary for uranium prospecting with Jo Anne's relations. The remainder of the time was spent in Salt Lake City.

An unusual trip was taken by Archie Yergen (engineering) who took a week's pack trip along the Skyline Trail between the Santiam Pass Summit and Elk Lake on the Century Drive. He reports that the scenery is "terrific."

Canada was the choice of Doris Kelly (ceramics) and her husband, Paul for a September vacation. Appreciation points were the boat trips between Seattle, Victoria and Nanaimo and their stay at Mt. Rainier on the way home.

Beverly Renner (ceramics) with her husband, Ron and mother, Mrs. J. T. Sappington, spent two weeks of August sightseeing their way to and from St. Paul, Minnesota where Beverly's brother is studying medicine. Points of interest along the way were Yellowstone Park, the South Dakota Badlands and the Black Hills.

A recent visitor to our plant from down under (that's Australia to the uninitiated) was Mr. F. C. N. Smith of Philips Electrical Industries Pty., Ltd., Sydney. This company is a part of Philips large international organization with headquarters in Eindhoven, The Netherlands. Mr. Smith is a tube applications engineer, however, his visit was promoted largely by curiosity after having seen our instruments in Eindhoven, England, and Canada.

### Ode to a Broken Strip

"Tinkle, tinkle, little strip  
Snowy white with silver tip.  
Oh! You were such a pretty thing  
'Til from my grip you chanced to spring.  
If I had only used more care  
You would not lay all broken there  
For you I once had lots of hope  
Now, you'll never see an oscilloscope  
Oh lack-a-day—oh naughty me,  
How could I so careless be?"

### The Ceramics Dept.

Serving on the Civilian Selection committee for the National Resources Conference to be held in Portland in October is Jack Murdock. Jack is a member of a committee of 48 prominent citizens who are responsible for the selection of 250 civilians from the Portland area. This large group by invitation will

be asked to attend the Conference which is presented by the Industrial College of the Armed Forces and is sponsored locally by the Oregon Journal and the Portland Chamber of Commerce.

A recent lunch hour discussion in coils revealed the startling fact that the three grandmothers in the department have a total of 19 grandchildren. Olive Ball leads the list with twelve. Mary Lazarus just nosed out Verna Dobson by one with the birth of her fourth, Harold Gene Barnes who arrived on August 14. (This department now wants it known that production is our most important product.)

Transformers had a party and a beautiful cake in August to tell Jack Palmer (Junior at Stanford) and Larry Bass (Oregon State Junior) goodbye as both lads prepared to go back to school.

New faces in transformers is Rennie Dayton, a recent transfer. Rennie lives in Vancouver and is a former student from the Washington State School for the Deaf where he participated in college athletics and photography.

A tearful goodbye was given to Ruby Norton (ceramics) who is taking a leave of absence from her department to be with her husband who is now in business in Eugene.



Ruby was the honored guest at a farewell dinner from the girls in her department at the home of Helen Ross. Ruby was given this platter gayly painted with ceramic's memories and names. A sensational menu included rainbow trout from Helen's freezer which she had caught in Canada.

Additional guests were Mrs. Ted Goodfellow and Mrs. Jack Gaeth. Imogene Dittman's accordion, Ted Goodfellow's flute and songfests made the party one to remember.

Ruby has been at Tektronix since May 11, 1951 and for the past year has been the assistant group leader in her department. Daughter Karen will accompany her to Eugene and complete her last year of high school there.

### UF Material

There has been a variety of pamphlets describing the different agencies of the United Fund in the material included in the Information Racks. Others on the prevention, care, and treatment of Polio. We are all interested in where the money we gave has been or expects to be used. There is material on all types of services of the organizations that you may better understand their aims and the goals they have set because of those in need. You give once in October . . . . United Fund and March of Dimes will help all year around.



Know Ye: Quiet in the court, Bob Leipzig, accounting, has received his 'Notorial Commission' with all rights and privileges complete with Governor Patterson's signature.



Not a bird cage but a close-up of Bob's recent honor and duly decorated by the accounting staff.

Carla Bell of ceramics flew into Portland, September 20 from a fabulous two week vacation in Anchorage, Alaska visiting her husband, Sherman who is an Army Supply Specialist at Fort Richardson. Carla reports that she did a little pros-

pecting for gold, took in Portage Glacier in Portage National Park and is still talking about the Alaskan scenery, especially the towering mountains.

Tek's "Maid Marion" in the form of Maxine Calvert, again won distinguished honors in the Oregon State Pope-Young Archery Tournament over the Labor Day Weekend. The 3-day tourney was held at Mist, Oregon and included a wand-shoot, clout and Hunter's round with simulated animal targets. All shooting was done with heavy hunting equipment, bows over 40 pounds draw-weight and broadhead arrows, one ounce or more in weight.

Maxine displayed her skill by not only winning the ladies event, she took the men's as well. Here's proof positive that practice makes perfect. Tourney prizes included a handsome trophy, a \$65 bow and a selection of broadhead arrows—all concrete evidence of the many hours spent developing a truly fine technique.

Flowers were sent to the homes of Frances Rinehart, Bill Webber, Pansy O'Brien, Lillian Walker and Marj Earlywine for a happier convalescence last month.

Receiving their posies in the hospital were Lorraine Murphy and Lurene Lange.

Neva Schmid (assem) spent her vacation on her farm with an occasional short trip catching up on old friends.

Ted and Hazel Shaver (assem) visited Hazel's family in Pendleton recently on their vacation.

Tek Talk extends its sympathy to Mr. and Mrs. Ralph G. McEwan over the loss of their son, Phil who died on August 31. Phil was one of Tek's summer student crew and was to have started college this fall.

## It Doesn't All Go Up In Smoke!

By Helen Rohwer



The dinner bell is a happy sound for these youngsters pictured at Camp Trestle Glen (near Carver, Oregon), the Salvation Army's Red Shield Youth Association Camp.

Many new employees may not know that our plant cigarette machine profits send many children to camp each summer. This past summer saw \$200 go to the Salvation Army for needy boys to attend Camp Trestle Glen, and the remaining intake goes to Campships, Inc., United Funds' organization whose special purpose is providing camping for children referred to them by social service workers and by schools.

Tek's interest in helping deserving children get to camp each summer started when Tek was located in East Portland. A group of girls began by donating food for sale at lunch in order to raise money for champships. Sale of cigarettes added to the fund and when cigarette machines were placed in the new building, it was decided that any profits realized would be contributed.

Doris Kelly of ceramics, one of the original instigators of this project, has been an ardent supporter through her seven years at Tektronix. Each year Doris visits Camp Trestle Glen and views the boys at mess-time just as they are portrayed. She states that they set their own tables, stack dishes and clear them. Honors go to the boys with the neatest results. Doris urges any of us who wish for a worthwhile experience to visit the camp next summer.

## Engineers Preview Machine Tool Show

Taking in the Production Engineering and Machine Tool Show in Chicago on September 6-16 were Jim Morrow and E. Ashenbrenner who previewed it for this issue of Tek Talk.

The shows in Chicago were located in three different buildings. The Production Engineering Show at the Navy Pier was a display of the latest developments of components used in manufacturing plants in the country. It consisted largely of the latest developments in electric meters and meter drives, air cylinders, solenoid valves, control valves, cutting tools, etc. A very interesting display was the development by the Boston Gear Works and their reduction drives and meters.

The equipment assembled at the Amphitheater and the Colosseum were displays of the very latest machines that will be used in manufacturing plants in the near future. Many of these machines had a very heavy emphasis on automation. Most automation machines are designed and built to completely machine and inspect a part to completion. The majority of these machines will be used by the automobile industry. However, Tek may well take a lesson from some of the developments in automatic manufacturing.

There were many new developments in all types of machines such as drill presses, screw machines, automatics, punch presses, etc.

Jim and Ash both said, "You could see the might of the American machine tool industry and the potential of future America. The progress of the machine tool industry from its evolution to the present has been nothing short of phenomenal and the greatest satisfaction lies in the fact that our greatest progress is yet to come."

They also said that they felt the value to Tektronix in this visit lies in the fact that it gives us a background of experience to draw upon when problems arise in connection with producing scopes.

## Nuptials Noted

June Bass (assembly) and Vernon Gunderson were married at 7 p.m. in the Methodist Church in Hillsboro on September 17. Hazel and Otto Peterson acted as matron of honor and best man. Congratulations Mr. and Mrs. Gunderson.

## Letters to The Editor

The other day I asked our local reporter why Tek Talk doesn't have a "letter to the Editor" section — he said, "Why don't you write a letter to the editor?"

So here goes,

**"Dear Editor: Why don't you have a letter to the Editor section?"**

Fitz

Dear Fitz,

Good question deserves a good answer. Let's have a "letter to the Editor section". Starting with your question, we now have it.

Depending on the amount of space available we are open for any letters that are of general interest and that are not too big to answer in one issue.

Letters should be signed and not anonymous.

In general, the letters would probably be of two types; a type where the writer wishes to make a statement and convey a thought or a type where the writer is seeking information.

The letter making a statement may not require an answer. We can't always agree to give a complete or final answer to the question but we will agree to do our best to answer each question.

## Tek Foundation Aids University Project

In September 1953, the Tektronix Foundation made a grant in aid of \$8,000 a year for two years to assist in the work of the University of Oregon medical school's 'Pain Project' in the department of surgery. This grant was to meet an emergency in order to provide salaries for neurophysiologists and anatomists, trained in oscilloscopic recording techniques, to become members of our cooperating team of investigators under this project.

This grant from the Foundation came to the Oregon Medical School during an emergency period in their study. Significant progress would not have been possible without financial aid and it enabled the school to pay the salaries of technical assistants at a time when no other funds were available. The school's greatest need like many other scientific centers is to have a source of non-earmarked funds from which to draw for exchange personnel who may have some technique to incorporate with theirs, special studies or extra equipment. No flexibility is allowed in the utilization of funds from the United States Public Health grant.

Current investigations are involved in mapping areas in the midbrain in which responses to tooth stimulation have been modified by nitrous oxide and oxygen in analgesic doses. It has been found that a mixture of 65% nitrous oxide with oxygen, when administered to human subjects, produces a state of 'analgesia' in which 'pain' is either obtunded or abolished and yet consciousness and voluntary control of movement are relatively little impaired. This line of experimentation will need many more tests before the 'Pain Project' is successfully concluded.

Surgical lesions in the classical sensory pathways now made in humans suffering from intractable pain have not proven very satisfactory in that the former pain may be replaced by sensations as disagreeable as those for which the patient sought relief.

Dr. Malzack, under the Commonwealth Fund, will now take over the scientific team assigned to this project. He plans to apply his training in psychology to a study of behavior in animals involving pathways carrying pain.

The Foundation trustees toured the medical school and this project in July and came away satisfied that results and satisfactory progress was being made. An additional grant of \$5,000 has been made for another year to aid in the continuance of pain research.

## Shipments in Sept. Show Share Increase

Shipments in August were approximately equal to the monthly level of orders that were estimated for this year.

In September our shipments were decidedly better because of the pile-up of instruments from previous months. This supply has been depleted, giving us a better profit share in September of 52% profit share and another 17% going into the retirement trust, making a total for September of 69%.

As everyone realizes, the stacked-up instruments we have experienced are due to many reasons (bottlenecks). Bottlenecks or stoppages change and rotate between departments from time to time. A point is thus illustrated that instruments produced but not shipped may cause low profit sharing months, but ultimately when shipped, raise the profit share.

Perhaps we should also call attention to some Tektronix philosophy. We put new instruments into production as quickly as possible, not waiting for all parts to be on hand and design to be completely finalized. This gives our customers the advantage of having new instruments quicker, thereby creating more goodwill for Tektronix. On new instruments, as well as existing instruments, we keep everyone producing, even though there are known bottlenecks and pile-ups of work in the process. This is admittedly less efficient, but it is far better than laying people off temporarily and waiting until all parts are here and all designs frozen or finalized before starting a production run.

## De-Liar Club Makes Awards

Are all fisherman liars or are all liars fisherman? This question was never settled one way or the other as of September 30, but we do have some interesting facts and figures for your summation. There were forty-three entries (this includes the fair sex, who some how or other managed to catch fish) for the total of \$43. This entire amount was spent for the monthly and grand prizes, of which the approximate retail value is \$71.00.

Monthly prize winners were Clair Kidd, Gloria Montag, Bob Guthrie, Virginia Levens, Donna Wojcik and Ed Mitchell. All monthly winners were recipients of an assortment of trout gear.

Grand prize winners are: Gloria Montag, for entering a river trout (and this was measured with a real ruler) 18½ inches long. Gloria caught this prize winner over the Memorial Day holiday in the Wood River and she receives a \$12.95 folding picnic table, Virginia Levens latched on to a beauty of a rainbow at East Lake on June 27 measuring 15½ inches (honest measure, of course!). Virginia wins a \$12.95 picnic thermos set. Clair Kidd entered a 17½ inch German Brown pulled from the dark depths of the Deschutes River. A \$12.95 camp cooking kit was presented to Clair for his efforts in fishing. (Clair's fish was also measured.) Ed Mitchell (who works nights and measures all 18 inch rainbows caught in Lake Marion) carries away a \$12.95 camp lantern. Bob Guthrie and Donna Wojcik (a fisherman and fisherwoman) shared the remainder of the monthly prizes as runner-ups. The fishing club committee sincerely thanks all who entered and all the kind people who helped make the contest the success it was. Better luck next year to those who fished and wished (like me).

Phil Mallory

Dear Phil,

We can assume that Tek Talk is one of the official voices of Tektronix and it's related activities.

Letters to the Editor may be of any type but should be of general interest and the type that may be answered in one issue. They should be signed.

Perhaps we should not make any more rules just now, so we may feel our way as we go. We may want to change the rules as we gain more experience.

Don Kepler

## Filters From Our Field Offices



In with the wind and the wet from the west (great circle route, no doubt) blew George Edens early this month. George is Central Division Manager, which means his operations extend from the middle of Pennsylvania to the middle of Nebraska; he has three field engineers and two field secretaries to help him.

In the years BG (before George) Jacksonville, Oregon was only a spot on the map. George spent his tender years there while attending elementary schools, and Jacksonville is still a spot on the map. Our potential field wheel learned about volts and amperes at Oregon State and U. of Colorado, and is an academic scientific bachelor.

During the war George was a one and a half stripe Naval person who busied himself with Radar. His post bellum burdens had to do with relays and trunks and other Bell Telephone appurtenances. When, early in 1951, the ringing in his ears reached 120 decibels he cast an appraising eye Tektronixward, and was soon enmeshed in delay networks and overshoots (ever get enmeshed in an overshoot?).

After a short course in Organized Confusion in the front office in the Spring of 1952 he went East to augment the New York operation. In the Summer of 1953 he took over the fast-riding circuit of Tektronix Syracuse after Byron Broms was called back to reinforce the home base.

When the Chicago Field Office was planned, the facile finger pointed straight at George to take the helm. He is now wandering about the environs, asking the inevitable Edens unanswerable questions and leaving all the snips and snatches of lore that don't seem to get through the sometimes narrow-band pipeline to the field.

Just to make sure none of the gals are taken by his gracious grin, I point out that he is completely married up to Kay and the tribe includes Kathy, almost a young lady, two potential Marines, Chris and Bill, and lap-size Jonathan. There are many other things about George that aren't convenient to mention on this occasion, but we note that where George is, interesting things happen.

Tek's Chicago office is located just west of the Chicago city limits and about the center of Chicago as far as north and south are concerned. This makes it very difficult for our people to get to Lake Michigan, but it is well situated from a customer-call viewpoint. Staffing the office are:

**Dick Ellstrom**  
The Ellstrom's live in the pleasant suburban town of Elmhurst, about 10 miles west of the office. His wife, Beth, and Nancy (12), and Jim (8) find themselves in an apartment, which is but a stepping-stone to a house of their own some day.

**Ken Dellinger**

Recently transferred last fall from the home office, the Dellingers are in Park Ridge, at the extreme northwest corner of Chicago, which puts Ken less than 10 miles from work. Ken's wife, Helga, April (9), David (5), and Peggy Ann (2) have taken a real liking to Park Ridge.



**Evelyn Dunham**

Here is an old hand who moves around the country opening offices for Tektronix and has recently lo-

cated in an apartment hotel on the near north side of Chicago so as to be close Lake Michigan. She shares the apartment with a couple of business girls and probably misses just one thing — skiing. She needs her car to commute daily but figures living close to the lake is worth it.



**Don Clifford**

Residing in an apartment in Chicago proper, Don is near headquarters. His wife, Agnes, who worked for three and a half years in the transformer department at Tek, keeps the home fires going.



**Eve Fitzgerald**

Recently arriving from Tek's Dayton office on June 26th, Eve has headquarters at the Oak Park Arms Hotel.



**Ken Dellinger**

Recently transferred last fall from the home office, the Dellingers are in Park Ridge, at the extreme northwest corner of Chicago, which puts Ken less than 10 miles from work. Ken's wife, Helga, April (9), David (5), and Peggy Ann (2) have taken a real liking to Park Ridge.





## Tektronix Spotlighted On United Fund's Tri-County Campaign



Headlined for special notice was Tektronix at the United Fund report luncheon on October 26. Representing Tek were Tek Tones (left to right) Corky Hymes, Gene Cavanaugh, Bob Duhrkoop and Bob Jackson; seated are George Roussos, Yvonne Hoffer, Norma Caufield and Blanche Cook.



Presentations of hats have been high points of the United Fund Report Luncheons. Tek joined the fun and presented this 'Electronic Helmet' for better reception of Fund returns. Chuck Holloway, General Chairman, was recipient at the October 26th Report Luncheon. George Roussos made the presentation.

### Shop Shifts "Ash" to Dept. Head



Erwin Ashenbrenner

Recently announced was the promotion of Erwin Ashenbrenner to department head of Tek's shop. Tek Talk in an interview with Ash who was convinced there was nothing interesting about his background, gave the reporter the following facts.

Ash in an Oregon Webfoot. He even likes the rain, preferring it to the Mid-west's cold winters. He was born and educated in Portland where he attended Hosford, Benson Tech, then Oregon State extension, where he studied the "Art of Being a Good Foreman." His educational background included a correspondence course in 1949 from Alexander Hamilton Institute on Modern Business, and another from the National Foreman's Institute, on work simplification. Various technical courses were included in these: Planning, Processing, Plant Management, Time and Motion Study, Conference Leadership and others. These courses augmented his practical experience.

Starting at Iron Fireman after graduation from Benson, Ash worked as a machinist. He was promoted to foreman in 1941. In 1945,

Ash's working experience changed radically. He was promoted to the foreman of the Bomb Fuse department and was doing nicely, when he was transferred to the Cleveland, Ohio plant, as assistant superintendent. From there he received a further promotion to plant superintendent in 1946. This position was held until his return to Portland in 1953. He went at this time with the Screw Machine Products as production superintendent and then in September, 1954, Ash became a part of Tektronix.

Ash's versatile work at Iron Fireman covered all phases of plant management and production from running turret lathes, hand screw machines, etc., through purchasing, cost reduction, processing, plant employee training and personnel work. He was responsible for setting up and conducting conferences on all phases of supervision and in this manner built up a competent supervisory staff; Ash has had as many as 550 people working under his guidance.

On the domestic front, Ash has had other things to keep him occupied. Bonita, age 10; Erwin, Jr., 8; and Lila, 4, all get home supervision from wife, Esther, but when she's too busy, Ash takes over. The same good humor and diplomacy displayed on the job, keeps harmony at home. Of course Dad is boss, but such an understanding one. Principle family activities are hunting, fishing and Ash is one of Tek's bowlers. Helping Dad make miniature models is another special project—all in all there is never a dull moment.

All this is a far cry from the boy who worked as a grocery clerk and sold newspapers to make his high school expenses. Tek Talk salutes our newest department head.

### Government Aids Current Profit Share Renegotiation Refund Not Required

Tektronix profit sharing received a boost from the government last month. We were informed that Tektronix sales to government agencies during 1953 will not require a refund due to renegotiation. You may ask what this means to you and your profit share, so we will try to answer your question.

During periods of national emergency when government purchases will be exceptionally large, Congress passes laws designed to prevent overpaying suppliers. Technically these laws permit the government to review and adjust prices paid after completion of the contracts. These laws must apply to all situations, and unfortunately sometimes penalizes efficient manufacturers who have been profitable, while possibly missing some who are extravagant with their expenses, and therefore not so profitable.

Tektronix has been both efficient and profitable. Tektronix, during a period of generally increasing costs, did not raise its price structure above those started in 1947, while greatly improving the instruments during that time. In spite of this fact, the Renegotiation Board saw fit to demand an adjustment refund in prices for 1951 which was paid in 1953. The Board has asked for a refund for 1952 which is still under discussion with them. The clearance (no adjustment refund) for 1953 was good news, and we hope we will also receive clearances for 1954 and 1955.

The possibility of being required to make a renegotiation refund was not anticipated in 1951 and 1952. Consequently, no reserve from which to pay this refund was built up during that period. This resulted in an overstatement of profits, and an overpayment of profit share. Howard and Jack volunteered to pay all of the 1951 required refund

from retained earnings, so the profit share was not affected in 1953 when the refund was paid. Early in 1954 it was felt that it was fair for the employees profit share to cover half the cost of the renegotiation refunds, with the balance to come from retained earnings. In order not to severely affect a particular bonus period, a reserve for the 1952 refund was started. This year we continued building a reserve for 1953 renegotiation, which reduced slightly the profit share earned so far this year. Now, we have eliminated the part of the reserve not required for the 1952 refund which improves the profit share for September through November.

Even with this assist, the October profit share is only 48% of pay, 36% current and 12% for retirement. Shipments were low because the test department had to take time to train their many new men. These new people are needed to replace those who left or were promoted into field engineering, and to expand the department to handle the increased volume. Test people report that for the last three weeks they have been gaining on the work waiting for them, and look forward to challenging Assembly to keep them supplied.

During September and October more than 50 permanent employees were added bringing the total for the company above 600. We must now ship more scopes than ever to have a high level of profit to share among our increased number.

Unexpected for this time of year, orders received during Oct. soared to our second highest month and increased our backlog of unfilled orders to an alltime high in dollars. This backlog is the highest measured in months of work since wartime 1951.

### Tek Helps UF In 68 Agency Drive

The United Fund's annual tri-county drive had Tektronix as a guest star at their report luncheon, October 26—only because Tek employees with their individual contributions showed their faith in their community and the one single annual company drive pledging, \$7,882.25; another \$2,500 was turned in by the Foundation. Percentage wise, it means that 88.3% of all Tek employees had voluntarily turned in their pledges and that this was almost 26% over 1954's returns.

Chuck Holloway, United Fund's chairman this year, has shown a penchant for hats. Tek's millinery department was not to be outdone, and couturier Cliff Moulton was design engineer of the helmet. Tek's UF committee was on deck for the presentation. Yvonne Hofer and George Roussos had the helmet; Blanche Cook and Norma Caufield carried placards reading "Tek it from us, it's fun to Give" and "Accept our Bounty from Washington County." Chairman Holloway was informed that with this magic hat, he would now be able to get all reports faster and clearer.

Completion of Tek's program was the entertainment provided by the Tek Tones: Corky Hymes, Gene Cavanaugh, Bob Duhrkoop and Bob Jackson. First on was "Kentucky Babe", followed by "Dry Bones"—and need we say, resounding applause. This also marked the first appearance of the Tek Tones in their new uniforms of gray flannel slacks and navy blue jackets.

Trophy awards this year to companies going over the top is a cow bell bearing the sign, "You Did Your Share for the UNITED FUND." In order that all employees can see it, the bell has been mounted and will tour each department for a day or so.

# Tek Talk

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Mech. Eng. — Armon McDowell	— Jack Day
— Slim Sorenson	— Fran Egan
Stock, Purch. — Dick Millington	Export, Shipping — Orpha Enmark
Test — Sandy Sanford	Mech. Assem. — Margaret Ryan
— Pius Scheer	Unit Wiring for
— Lloyd Sharp	Assem. 1 & 2 — Reggie Green
Shop — Al Foleen	— Betty Jones
— Hank Jones	— Wilma Stapleton
— Duncan Bergeron	— Corky Hymes
Transformers — Jane Tomkin	Cables — Margaret Clymens
Ceramics — Helen Rohwer	GET — Clara Knox
Panelcraft — Lois Rieschel	Manuals — Audrey Duyck
Front Office — Yvonne Hoffer	

# — THE BIN. —

Tektronix just hired its 600th person. Kathryn Kroeger, better known as 'Taffy', joined the Field Engi-



neering staff on October 24th. My goodness, 600 of us, and we're only 8 years and a little over 5 months old!

\* \* \*

A farewell party was held at Il Trovatore restaurant on September 27th, honoring Tek people who are transferring to Eastern offices. Harry Allison, Dick Phillips and Joe Vistica and their respective spouses were the honored guests. A choice of fried chicken or steak dinner was enjoyed by approximately 40 friends who extended their best wishes to all of them. After-dinner cocktails and conversation completed an enjoyable evening.

Harry Allison is at Bronxville, as will be Joe Vistica. Dick Phillips will take his training there, and will be stationed at Boston. It's nice to have such nice people representing us. Good luck, boys!

\* \* \*

### How To Get Action Out Of The Instruction Manual Department

If you want an instruction manual for a current production instrument call Corine — 238.

If you want an instruction manual corrected for a specific serial number call Corine — 238.

If you want an instruction manual for an instrument just going into production call Audrey — 237.

If you just want a part of a manual (text, parts list, schematics, etc.) call Audrey — 237.

If you want a good conversation call Rachel — 238. She works for Dick Tollisen and has hardly anything to do with manuals any more.

If you want information about manuals for new instruments call Fred — 239 or Henry — 236.

If you want to gripe about the lousy service call Henry — 236.

Thanks,  
Henry

\* \* \*

Russel Stover candy is making the same offer to Tektronix as we had last year. These gift boxes will be made available to us at a saving. Lists will be on the bulletin boards with order forms. Please turn them into Norma Caufield in the First Aid room. Orders must be turned in by December 10th for delivery on the 20th.

\* \* \*

Tek Talk extends its sympathies to Bob and Eve Fitzgerald on the death of their mother. Our condolences also go to Hazel Tillman on the death of her father. Our sympathy to Coral Jenkins on the loss of her grandfather.

\* \* \*

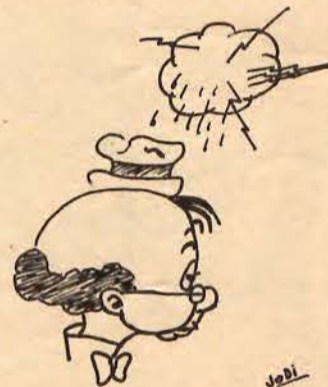
One Halloween party in the plant had special significance. Cables has confidence in their Seeress Hazel L'Amour. On October 31, 1954 her young son asked when it might snow. She predicted (after gazing in her mirror for 10 seconds) that it would snow on January 4th, 1955. It did: On January 4th, February 4th, and March 4th. Any one for fortunes? This year she was honored with a decorated cake and

witches brew — I mean — bonnet so she was the best-dressed witch — at Tektronix.

\* \* \*

### STORMMAKER OF ASSEMBLY TWO.

Hurricane, Earthquake Joe Drapak, as his friends call him now, recently brought his family to the Great Northwest from Bridgeport, Conn., and left in his wake a series



Jobi

of hurricanes and floods in his hometown. When he arrived here in Sept. everyone complained about the hot weather which was followed by two weeks of rain. This isn't bad enough, he took his wife Fran and daughter Alice Ann to San Francisco on a week end trip and the Portland area witnessed a week-end of sunshine.

But lo and behold, poor Frisco suffered an earthquake while he was there. He's quoted as saying, "Wot Hoppen".

Naturally the reason for the rain again is because Joe is back at his workbench.

\* \* \*

Welcomed back to Tek after an absence of 4 years is Paul Hanson in the test department. Paul started with us in March of 1951 but in the same year went on to Bronxville and worked in test at Tek's eastern headquarters. In May of this year



Paul took a leave of absence at Bronxville and went home to Denmark — Nautrup, 200 air miles away from Copenhagen.

One of Paul's proudest possessions on leaving Portland was a second hand Pontiac which he had shipped over. Then with his parents and two sisters they motored through West Germany, Holland, Belgium and France. In these countries, Paul visited all Tektronix offices (West Germany was not in effect at this time) — and how were they? Paul's comment was that they were the most wonderful people that he met over there. "It was just a little bit of Tektronix" — and he was pleased to find that they work very much the same way in the foreign branches that we do here.

On his return flight, Paul stopped to visit Mr. Hogg of our English offices. He also flew on the British airlines "Viscount", Denmark to London and commented that this, the world's first propeller-turbine airliner was "something."

\* \* \*

All of mechanical assembly attended a bridal shower for the fu-

ture, Mrs. Roy Newman — better known as Kay Adams, on Saturday, October 15. In spite of the many hints in the department about everyone attending a shower, Kay didn't have a clue.

Kay's father helped the plot by insisting that he needed her help in buying a gun 'scope. From there on it was easy, Kay was driven to Lucy Benton's doorstep and "surprise!" She received 'something of everything to start furnishing her new home, which she is looking forward to with so much anticipation.

\* \* \*

From Deer Harbor, Washington came a note from Miles and Nellie Tippery announcing the birth of a new son, Bruce Leslie on October 1. A special note also said "hellow" to their many friends at Tek. Through the columns of Tek Talk, we would like to congratulate the Tipperys and their children — Ruth, Wayne and Joyce.

Miles is a former vice-president and one of the original owners of Tektronix.

\* \* \*

After a political palaver unaided by the smoke-filled room, Yvonne Hofer was swept into office by the front-office for their personnel representative. Also-rans (really a slow walk) were Don Ellis and Les Stevens. (Besides, Yvonne is much prettier!)

\* \* \*

The gals "up front" inspired by the planters and flower boxes in the manuals department requested and are now the proud possessors of a 14-foot flower box which now contains 2 lone plants — a philadendron and a wandering Jew. All donations will be greatly appreciated.

\* \* \*

At the regular engineering meeting on Thursday, October 27th, Howard Vollum showed his movies taken on his trip to Europe this spring. He gave a running commentary on the places visited, which added to the enjoyment of the lovely colors and many interesting sights. Howard really enjoyed his visits with our distributors, and his colored films are lifetime mementoes of it. Appreciation is expressed by the engineers for Howard's time spent editing and showing these films at the meeting.

\* \* \*

A visitor at Tektronix the last of October was Jack Dressler, manager of the Cedar Hills branch of the First National Bank of Portland. The First National is one of the newcomers to the rapidly expanding Cedar Hills shopping area.

## Catalog Will Soon Be Home-Grown

The printing department boasts a new acquisition in a Model 26 Mergenthaler Linotype. This model is a 2-main and 2-auxiliary magazine machine.

Purchase of the new linotype was necessitated for printing the catalog. The former linotype was unable to handle all the processes and finishing needed, so it was all done on a photo-setter in town. This service is no longer available so Tek decided to purchase this model.

Six different type faces can be printed on one line if necessary and headlines can also be printed. Formerly all headlines were hand set. The model's other accomplishments are diversification and faster operation.

Gisle Borlaug is at the keyboard, and is in charge of the new machine.

## Employees Give Generously To Obtain Volunteer Quota

Tektronix employees have expressed their feelings of security and warm friendliness for others in their voluntary pledges to the United Fund. The first day of the campaign this year, 57% of the employees had turned in their pledges. From then on it was a steady rate of return.

Quotas are set up on the basis of need; company quotas are then assigned by the budget committee of the tri-county United Fund. Tek's quota was made the first week.

Our contribution to our community was not made by an active solicitation; rather it was possible due to each Tek employee who gave his share in response to his knowledge of the need for the United Fund and his ability to give.

On November 24, America celebrates our national holiday, Thanksgiving. We think that here is a time to momentarily pause and be thankful for the feeling of fellowship and friendship that is so apparent at Tektronix.

## German Visitors Round The World See Tektronix Plant For Eleven Cents

On October 14 Tektronix was pleased and honored to have as guests three gentlemen from the large West German firm of Siemens and Halske A.G. As some of you may know, Siemens and Halske is an electrical equipment manufacturer and is comparable in scope with the General Electric Company in their size, they employ 140,000 people and rank second only to G. E. in their share of the world market for electrical equipment.

The names and activities of our guests from Karlsruhe were: Mr. Georg Bleisteiner, Vice President and member of the board, Siemens and Halske A.G.; Dr. Ludwig Merz, Head, Dept. of Engineering for the Electronic Measuring Instruments Division of Siemens; and Dr. Ing. Wilhelm Thal, Head, Dept. of Special Instruments of this same division.

Knowing about our instruments from actual use (Siemens is our largest customer in West Germany), these three men traveled 3,000 miles out of their way to visit our plant and to learn first hand how we manufacture oscilloscopes. Interest was high in our material handling, assembly techniques, and administration. At the end of a busy day all expressed equal admiration for our management methods, the skill of our people, and the over-all excellence of our instruments. The remainder of their day in Portland was spent with the Gerd Schwerins, pleasantly comparing notes in their native language.

A copy of "New Oscilloscope Specifications" was mailed to Delco-Remy Division, General Motors Corporation, Adderson, India (typographical error). Postage amounted to two cents. For 2 cents the 'specs' have taken quite a journey. On July 15th, our envelope arrived in Bombay, India; the 19th in Bangalore (\$64,000 question fans take note, a point one-third of the way from the southern end of India and halfway between the East and West boundaries.) To arrive, there took railroad transportation and the sturdy back of a donkey or two — a frequent aid to Indian postmen.

Next on the map is Madras, a seaport on India's East coast; on July 28th by rail to Bombay. That same day, en route home via a Dutch liner to the Suez Canal, Genoa, Marseilles, London and New York.

On October 10, our wandering 'spec' was sent home by Mr. J. R. Edwards of Delco-Remy Division of Anderson (Adderson), Indiana (India), USA. The return voyage cost Mr. Edwards 9 cents but he had to let us know how far the 'spec' had journeyed.

Our apologies for the mistake and thank you for sharing this error with us. We only want you to know that if it ever happens again, a field engineer has volunteered to go with the 'spec' if we guarantee the same itinerary.

### CREDIT UNION TIPS . . . .

**Did you know that you as a Credit Union member can buy life insurance without a medical examination—see your Credit Union for more information.**

**Don't forget yourself on payday, save a little with your Tektronix Federal Credit Union.**

**Credit Union deduction is the Painless Way to build a Savings Habit.**

### Late News Bulletin:

United Fund celebrated at a Victory dinner on November 3 the success of its quota making drive of \$3, 003, 644, for 68 agencies. Actual figures still being tallied point to a 102% completion.

# Anyone Have Any Spare-time to Lend?

Any news this week — anybody taken a trip — anybody had a party — the usual query of questions that any Tek Talk reporter asks around deadline time. To thwart all suggestion of the fact that "nothing ever goes on around here", our active Tek reporters rounded up all the activities, organized groups and clubs that exist at Tek. By the time they finished, we were gasping. People don't even have time to work, much less, time to answer "stupid" questions — they are busy!

## Photography

From Ed Egan's photographic department came the not-surprising news that there was not a camera club but a conservative estimate of the people that took pictures or owned a camera at Tektronix would cover 90% of the employees.

Top users of color film for their large and varied collection of slides are Nile Thayer and Helen Reed in shop. These two think nothing of gathering up 30 rolls of color film for a two week vacation. (Mighty generous to their other employees too, with a film presentation during lunch periods.)

Movie producers for their own families and the pleasure of their friends also are beginning to number. Among the most avid are: Frank Hood, Howard Gault, Ray Grecco, Armon McDowell, Jim Donoghue, Jean Hansen, Miller Duris and Howard Vollum.

Reggie Green (assem) who is beginning to plan for her projected trip to Africa is now stockpiling black and white (enough for 1,000 shots) and colored film to equal it.

## Ham Radio

Clubs, groups or guys that just like to talk and get acquainted can easily find nucleus in Tek's ham operators. Tek has two groups — high frequency on bands 6, 2 and 1 1/2. Most high frequency equipment must be made and it is possible to do a great deal of experimentation. In this group are found, Jim Strickland, Mike Park and Hank Scott.

The greater number of hams are found in the 50 mc. and down whose bands are 160, 80, 40, 20 and 10. In this group are Mike Park, Don Pratt, Ron Van Dyke, Ted Goodfellow and Bill Johnson. Fun and activity here are in long distance communications — it is possible to go all the way around the world by hitting the right band at the right time. All the operators recommend it as an easy way to make friends and meet people. Available to all operators is a call book covering the United States.

In a law passed by the legislature, any ham operator is able to get his call number on his license plate. This marked the first time that Oregon officially recognized the usefulness of the ham operator and his car for emergency operations.

## Farmer's All

Not yet in formation but broached at a recent personnel meeting was the suggestion of a guest at Tektronix, John New of the Washington County Extension Service who wanted to promote some interest in a part time farmer's club at Tek. This would be for anyone who had a plot ranging from 50 x 100 to acreage.

## The "Bulls" and Bears"

A meaningful membership are the six investment clubs with membership in each varying from 10 to 18 each. Presidents are: Jack Day, Hawkin Au, Bob Fitzgerald, Emil Evans, Fred Tinker and Dave Spinks. Each member is required to invest a minimum of \$10 a month which is invested jointly on the decision of the group. Future stock-brokers or investors who might want to join a club and are not able to find an opening may talk with Don Ellis regarding the formation of another club.

## Family Camping

A family camping group was another activity started this summer. Mighty handy with tips on how to pitch a tent or start a fire with wet wood are inveterate campers: the Carl Helmer's, Don and Helen Sherrod, the Earl Palhka's, the Derrol Pennington's, the Sandy Sanford's, the Bob Poulin's. Labor Day weekend found the largest outing pronounced as a great success and include the following families: Phalka's, Sherrods, Helmers, Visticas, Sanfords and Pius Scheer.

Last of the season and certainly a swan song was the same weekend as the golf tournament when with a fair weather broadcast, the Helmers and Sanfords ventured to the Cape Lookout State Park. Instead storm warnings came up with 60 mile an hour winds. Arriving around 8 p. m. Friday, our rugged pioneers stuck it out until Saturday afternoon and surrendered tent poles and all. Sandy reported trees blowing down and that Saturday morning he put his tent up twice. With a compliment of 6 children, our modern day pioneers finally gave up.

The Sanford family managed to keep in trim by camping out on their vacation this summer of 16 days — 12 on the 3300 miles of open road which included Glacier Park, Yellowstone, the Grand Tetons and Lake Chelan — the other 4 were spent in motels and the whole family votes for the great outdoors.

## Roller Skating

Coming over the P. A. system is the announcement of a roller skating party. Usually once a month, sometimes more often...but the result is a group of 20 who retreat to the Oaks for an evening of the light and the fantastic. Last meeting was October 14, the first of the fall season.

An unusually small but compact group of 7 only, included John and Vivian Durecka, Warren Collier, Mickey McKay, John West and Barbara and Lloyd Sharp.

So listen closely to any P. A. announcements as all roller skaters are alerted for a November skating party.

## "Need a Fourth"

Then, there is always the problem of "where can we get a fourth?" Inveterate bridge players who not only talk but play a good game as well are Marybelle Rash and her husband, the Si Corn's, Helen Helmick and Hallie Todd. We also understand that Byron Witt is in quest of a game during the lunch break. Diane Ross is another avid learner. Great loss was sustained by the kibitzers in Norman Larabee, one of Tek's student summer help now back at Pacific who was also a tournament bridge player. Hawkin Au describes himself as "sort of." — and the only other suggestion we have is Will Marsh.

## De-Liar Winners

In the last edition of Tek Talk, winners of the De-Liar Fish Club were given their season awards. Pictured with their hard earned trophies



ies are left to right: Donna Wojcik, Bob Guthrie, Clair Kidd, Gloria Montag and Virginia Levens.

## Sport Car Fans

Sports car fans biggest booster was Howard Gault who states that he is now masquerading these days in a '49 Chev pick-up for hunting

and fishing but maintains "it's still a sport car." In transformers, much talk is batted back and forth on Cal Watson's Austin Healy. The envy of the shop is Ed Brooke's street roadster, a custom job.

## Basketball League

Off with the referee's whistle is Tek's Basketball team with opening practise on October 28 at the Sunset Valley school every Monday and Friday at 5 p. m. Wednesday, basketballers will convene at the Markham school on the Capitol highway. Bill McCord will continue to be the contact point and states that league play will begin on November 15.

## "Hunting and Shooting"

Riflery experts number a good many but a nucleus for discussion could be had with any of the Issac Walton League backers such as Archie Yergen, Cal Smith or Ash Ashenbrenner.

Archie reported that one successful result from the League thus far was the Sled Spring's Elk Hunt. In which no fires were left unattended and no reports of vandalism were made; out of 164 hunters, this is real good!

## Chess Strategists

Undisputed master of the chess board at Tektronix is Ron Hankins in drafting. He is joined in his department by Kermit Fleck and Leon Prentice. Printing addicts are: Harlow Loucks, Bob Livingston, Rennie Brown, Gisle Borlaug and Ernie Plapp.

Ron states that Chess can be played in 15 minutes and that he can teach anyone how to play and show



"by experience and instinct." He also acknowledged that the rules of chess were essential for this rapid style.

Contrary to many an opinion on days spent on the deliberation of moves, there are chess games in which movements are timed by a referee every 10 seconds. Ron has challenged printing to various kinds of matches in which he has played against two boards at a time and they have been plotting a return engagement using three boards. (He has been known to lose one now and then. —Etaoin Shrdlu) Lloyd Olson remarks that he can teach anyone how to cheat in 5 minutes, so it really isn't necessary to take the 15 minute course!

## Hi-Fi Experts

Fans of high-fi are now considering forming a club for those who are not only interested in good music but also in its technical reproduction. It would be a discussion group for ironing out mutual problems as well as "good listening." Self-starters in this direction are: Barbara and Lloyd Sharp, Jim Cook, Jim Strickland, Lou Ballinger, Roger Haight, John Durecka and Bill Lee.

## Ski?

With the recent flurry of snow, we expect to get out the boards and wax up. No club as yet, but you'd better talk to any of the following: Mickey McKay, John Durecka, Bud Siegel, Dick and Gloria Montag (how's that leg, Gloria?), Bob Poulin, Jack Murdock, Hawkin Au, Lee Wagner or Dick Tollison.

Fred Tinker is offering his equip-

# Chest X-Ray Given Printed Circuit Tek Experiment

Examination for Tuberculosis, taken thru the facilities of the Mobile X-ray Unit, is an annual practice at Tektronix. Hours were arranged in the hope the residents of neighboring communities would take advantage of its accessibility. Some Tek people brought their families in after work.

Last year, 480 were accommodated, and 544 this year.

## Questions & Answers

1. How long will the electronics courses run? If I am unable to take them at this time, will they be given again this year?

The classes will each run approximately 18 weeks. Courses will be held again next year.

2. Will performance in the electronics classes affect my job record at Tektronix?

It is hoped that these classes may be of real interest and help to those who want to learn about electronics. However, the grades received will not be used to anyone's disadvantage on their job.

It is possible that the satisfactory completion of the beginners electronics class, the advanced class, and the scope class, along with previous background and experience in electronics, might qualify a person for test and calibration engineering. However, with classes only two hours a week for 18 weeks in each course, it isn't likely that the completion of all three courses alone, will make a test engineer.

3. I took the electronics classes last year but feel that I would like to brush up my knowledge once again, is this possible?

If there is enough room. Preference will be given to new registrants.

ment for sale but perhaps he'll change his mind in the event of powder snow.

## Archery

Archery has a good many with a full quiver but we leave you to our expert and champion, Maxine Calvert who would be happy to act as an information source.

## Talent Stars

There's lots of talent at Tek and some who get together for their own enjoyment as well as the entertainment of their friends could certainly form a group whenever they desired. For instance, Marybelle Rash who plays a mean jazz piano and was at one time with an orchestra; Al Croeni, saxophone; Doug Prouty, trumpet; Mart Kubarsepp, concert organist; Ted Goodfellow, flute; Roger Haight, trumpet; Dick Tollison, vocal and then "is Hawkin Au still taking piano lessons?"

## "The Wild Blue Yonder"

Johnny Taylor says the Flying club has some thing 'in the wind' and some are 'up in the air'. And we (reporters) can't 'pin him down' on any of it. Future plans are 'in the making', but nothing definite yet. Some of the members like Jerry Kraxberger, Ed Bauder, are or have taken off for the four corners of the U. S. This has lowered the number of members here, but the interest is 'spreading out'. Anyhow, there should be more news later, and if there are any questions, Jack Murdock, Don Ellis, Johnny, Jim Morrow, are some of the members you can 'contact' about the future. Right now it's sort of 'up in the wild, blue yonder'.

## Bowling Leagues

Representatives from Tektronix bowl on some league almost every night of the week. December Tek Talk will feature the entire bowling story.

Many of you have heard of the wide spread use of printed circuit boards in radio and television manufacturing, as the fundamental key to automatic production. The printed circuit idea has been developed because of its possibilities for production economy, particularly where large quantities of instruments can be made without modifications. It eliminates jumpers and cabling and reduces the possibilities for errors. However, as with all ideas, there are disadvantages. From the user's standpoint an instrument containing printed circuit boards is frequently very difficult to repair. Excessive heat can cause the metal foil to separate from the base. Flexure of the boards can cause the thin conductors to break.

These circuits are more suitable for mass devices where the usable life is normally shorter than in an instrument such as ours. Also, in quantitative instruments changes have to be made much more frequently than in instruments such as radio and television receivers where a change will not be so important. In our instruments a components may have to be changed if it drifts 1%, whereas a drift of 20-30% in a television or radio receiver may not require a change. An instrument user is much more critical of this instrument's performance than is a TV or radio user.

We are experimenting with printed circuits in some minor applications in order to gain experience in manufacturing and customer acceptance. We hope the problem of separation of the metal foil from the base will be solved by our use of hollow eyelets at each soldering point. It is always possible that some innovation will remove the present limitations and if so, we want to be ready.

At the present time, Don Olson comprises the printed circuit department. Starting with bakelite having copper foil laminated to each side and a Kodaliith positive, he carries out the numerous steps leading to printed circuit boards for the 310, 360, and 123 instruments.

This article has been typeset in a new "face" which is currently being used in conjunction with the Long Form Catalog.

Starting with the next issue of Tek Talk, this type face, known as 8 pt. Futura Medium, will be used. It is not only a modern type but also has a shorter alpha-bet length, which will enable us to have more space for articles.

The print shop would like to hear your comments as to the desirability of this type between now and the next issue.

Thanks, see you in December —  
Etaoin Shrdlu



Word has been received of the birth of a daughter to Geri Duyck and her husband on October 23. Patricia Ann weighed in at a healthy 7 pounds, 9 ounces.

The stock department was busy congratulating father, Dick Place on the arrival of his new daughter, Kathleen Patricia on October 25.

Arriving just in time for Tek Talk on November 3, was Lawrence William Vollum, who father Howard Vollum says, weighed in at 8 pounds, 2 ounces. The following telegram was sent to Kit from the employees of Tektronix during her stay at St. Vincents:

Felicitations, Congratulations and Best Wishes to you Kit and to Howard. A hearty welcome and good luck to your youngest. Glad to hear everyone is doing well and pop survived.

The Leonard Mason's are enjoying the recent arrival of Steven Allen Mason on October 20. Congratulations!

Mary Louise Mitchell arrived on October 30th to the addition of the Ed Mitchell household. At latest reports all were doing fine, even father.!

## Bloodmobile Has Personnel Aids 49 Tek Donors School Meeting

Tektronix chalked up 49 donors for the Bloodmobile on October 17 at the Community Church of Cedar Hills. This visit was sponsored by several of the Valley churches. 100 people in all visited the Bloodmobile and 79 were accepted. This was a satisfying amount for the first time. It is planned to have the Bloodmobile in this area once every 3 months. It is hoped the response will prove as much or more satisfactory as time goes on.

As of October 28th, there were 103 who had contributed one or more pints of blood to the Tektronix Blood Bank during 1955.

End of August balance	147
September contributions	11
Used in September	26
End of Sept. balance	132
October contributions	35
Used in October	0
End of October balance	167

On October 17th, 43 visited the Bloodmobile. Of these, 8 were rejected. The next contributions will be made some time in January when the Bloodmobile will be stationed in this district again.

## Conference Held

The Pacific Northwest Personnel Management Association held its 17th Annual Personnel Conference at Spokane, on October 27, 28, and 29. Don Kepler was one of the 33 members of the Portland group who attended. The keynote address was given by Howard M. Dirks, Vice-President of the Carrier Corporation of Syracuse, New York. Other pertinent and informative addresses were given by John Post, Manager of Industrial Relations Department of Continental Oil Company, Houston, Texas; and Lawrence L. German, Manager of Employee Relations of General Electric's Hanford Atomic Products Operation, Richland, Washington. After each address, association members held forums with exchanges of ideas and problems of great interest to everyone.

## Temperature's Taken On Gadget Control

By Lloyd Sharp

Well, practically everybody cares, in some respect. We work in a plant in which the temperature and humidity are held practically constant (well, most of the time anyway), but have you ever wondered how many other temperature-controlled processes go on in Tektronix? How many would you guess — 5, 10, maybe? Guess again. There are nearly 30 by my count, and I probably missed some.

The water emerging from a certain faucet in the Photo lab comes through a thermostatic mixing valve, and is always the same temperature within 1/2° F. This is important in the control of photo-chemical processes. In the print shop, the melting pot for type-metal in the lino-type machine has a thermostat in it. In the model shop are furnaces and ovens for heat-treating, melting, tempering and low-nealing of metals, machine parts and tools, employing thermostats to control temperatures from 900 to 2,000° F.

In Bob Poulin's baliwick are controlled ovens for accelerated aging tests on scope components such as selenium rectifiers, potentiometers, and capacitors,— and a temperature-controlled room for "extreme environment" endurance tests on finished scopes, where they are kept in operation up to 115° until something fails.

In the manufacture of cathode ray tubes we run into a whole gamut of T-controlled gadgets: the ammonia reduction plant, the hydrogen-annealing furnace (supplied with hydrogen from the ammonia reduction plant), ovens for annealing glass

Preparation of students to fill the needs of business is one of the main objectives of educators in Oregon. As a personnel director, Don Kepler is well aware of some of the problems faced by students upon entering the business world. In September, Don was invited to speak at a meeting of the faculty of Albany Union High School, his subject, "What Business Expects from the High School Graduate." Albany's students have shown unusual interest in the best ways to obtain a firm foundation for their business futures, and Don sincerely enjoyed this opportunity to assist in this timely project.

At the annual state meeting of the Oregon Elementary School Principals' Association, in October, Don was the speaker selected for the subject "Personnel Practices in Business." This was in line with their theme and constant project "Better Service through Inservice." Inservice can best be defined as "training while your on the job that improves you in the job." Inservice training is required by a state law and all teachers must give evidence of growing inservice; every school district decides on its interpretation. The most frequent example of inservice training are the summer schools and extension courses.

Another speaker in our community of Washington county was Mr. Earl L. Johnson, principal of the West Union Elementary School, Hillsboro.

## Field Filters--

"John Mulvey and I waded out of RCA, and I mean literally waded — with pants legs rolled up to our knees. Seems it had been raining all afternoon and we were so busy we hadn't noticed. For two blocks around RCA in Camden, water was knee deep in the streets, side-walks and parking lot. (And they say it rains in Portland.)"

parts, the baking of dag, phosphor, and lacquer coatings, cooling CRT's fresh from the assembling lathe, induction and radiation-heating of guns and of tubes during evacuation — all these operations are carried on at carefully controlled temperatures, and they can produce some sad-looking specimens if these controls get out of hand.

T-control is also mighty important in our plastics department, not only for the molding and setting of plastics, but also for storage. Alkyd resin (matrix for the fibre-glass probe bodies), acetate butyrate, nylon, polyethylene, tentite, vinylite, urea-formaldehyde and (in the capacitor dept.) teflon comprises the list, each with its own special thermal treatment. Nylon, for example, must be held between 650 and 700° for intrusion molding. If it becomes much cooler it won't mold; and if it gets much hotter, the final product comes out brittle. Some of our plastics products require controlled annealing in order to develop the desired properties.

In the manufacture of our precision capacitors, they are vacuum-saturated with silicone under T-control to insure uniformity in the final product. Our flat-wound "sand-bar" resistors are protected by a triple layer of teflon, and baked at 650 to 700°, resulting in a film of one of the most impervious, chemically inert substances known to man. The full chemical name for this "teflon" would floor you, just as it floored me, so we'll just skip it.

(Continued next week)

## Tek Transfers

At Tektronix since August 1 has been Ray Lisiecki of Buffalo, N. Y. Ray now leaves for Bronxville for a two week period and then expects to join the Syracuse staff of Scotty Pyle, Gordon Allison, Ann Dwinelle and Virginia Sands.

Phyllis Jensen was welcomed to the front office in September. She has now been transferred into the accounting department.

Dorothy Van Maren is now working with Will Marsh's gang in parts, and Kathryn Kroeger (better known as Taffy) is working on acknowledgments. Front office wants it known they are hoping to keep these two and anyone who wants a new girl — please find your own!!

A constant problem in field engineering is to find hands for all the varied jobs. Jack Henderson has been primarily occupied with credit considerations and business methods. He has also, from time to time, helped out with the overflow of work from the staff field engineers.

In a recent promotion Jack is now a staff field engineer. Credit and collection problems are in the process of being turned over to the accounting department.

Jack will continue to run down technical problems turned in from the field but will also be responsible for making up the shipment delay schedules, and will more closely coordinate orders with production.

Bill Barnes is now in production engineering with headquarters in the engineering building.

Deane Kidd is back in engineering at Tektronix after a two-year sojourn (vacation) in the Army.

## How To Retire Or Terminate

The October Tek Talk article explaining **YOUR RETIREMENT PLAN** advised you to keep your beneficiary card up to date, and to see Don Ellis if you were planning to terminate or take leave of absence. This article will explain why it is so important to see Don.

Since most Tektronix employees are so young, many are currently more interested in their rights upon termination of employment than in their retirement benefits. **YOUR RETIREMENT PLAN** was set up to reward employees for long time contributions to the value of Tektronix. Therefore if you terminate before completing six years with us, you will forfeit some or all the profit share credited to you.

Earning an unforfeitable part of the profit share credited to you is called "vesting" by the attorneys. Your vesting period is measured by the number of months for which you received pay or spent on active U.S. Military service since you were employed. In most cases this includes the time you worked prior to the start of the plan in 1953.

You may interrupt your vesting period with a leave of absence, and continue building it up when you return. However, if you terminate employment, then return to work sometime later, you must start your vesting period from scratch. This is why it is so important to see Don before you leave, and make sure both of you completely agree on your status.

The increasing value of the length of time you have worked is shown in the table below:

0 thru 23	None
24 thru 35	20
36 thru 47	40
48 thru 59	60
60 thru 71	80
72 or more	100
Reach age 65	100
Total Disability	100

Your rights to a cash settlement upon termination will be discussed in the next Tek Talk article on **YOUR RETIREMENT PLAN**.

## Posters Printed For Science Exposition



A recent contribution of Tektronix to the Oregon Museum of Science and Industry was the printing of posters and the rules and regulations for the fourth annual Northwest Science Exposition to be held at Oregon State College, March 24-30, 1956.

The Exposition was established in an effort to stimulate our youth to an increased active interest in the sciences and related fields of study. In line with one of the purposes of Tektronix's Foundation, this project has always received active and financial support. Howard Vollum is also the first vice president of the Oregon Museum.

Posters and rules have now been supplied to all public and parochial schools in the state of Oregon; approximately, 1500. In addition, Clark county is blanketed and the other Columbia River counties in Washington are given the rules by request. Schools as far away as Yakima, Washington have entered.

Regional contests are held prior to the state. Multnomah county had 1200 entries last year; 40 were selected to go to Oregon State. Other regional contests were held at Grants Pass, Sweet Home (a tri-county endeavor), Corvallis, Salem, Eugene and Beaverton. This year applications have already been received from Clark College in Van-

couver and Rainier in Columbia county for their regional contests.

Exhibit classifications are divided into 4 major divisions based on the grade level of the exhibitors; grade level is 1-12. Exhibits in the Senior and Junior divisions are divided into three categories: **Physical sciences** (principles of physical laws: chemistry, electricity, mechanics, optics, heat, etc.— applications of physical laws in communications, production or transportation.), **Physiographical sciences** (astronomy, geology, meteorology, conservation of soils, etc.) and **Biological sciences** (plants and animals, medicine, agriculture or conservation.)

Intermediate (grades 4, 5 and 6) and elementary divisions hold forth in the physical and biological categories, only.

The Northwest Science Exposition is endorsed by the leading educators of Oregon and their respective institutions, by leading scientists, by scientific societies and other members of industry. The program has been enthusiastically received by all participating schools as a vital stimulus to youth interest in scientific endeavor.

If you have a child who would be interested in competing in this contest, be sure and ask him to secure a copy of the rules and regulations from his teacher.

## Divot Diggers Dive in Downpour Annual Golf Tournament--Swim Meet

No little thing like a 40 mile gale is going to stop Tek's golfers. No siree! 31 turned out for the annual event, and what fun they had. Just to make it a real competition, it rained 2 3/4 inches between 4:00 p.m. Friday and 4:00 p.m. Sunday. Most of it came down between noon and 6:00 on Saturday. Of course, just to keep it sporting, they played the second nine during this time.

Some of the interesting side-lights were: Dick Schmidt who thought

his ball was a bird. Byron Broms watching the wind blow his ball almost back to him on the 8th. Ed Bauder, playing the wind, and making a hole in one on the 16th. Johnny West's long drive on 7 — clear down by the crick — and well over 300 yds. Byron and Ed's balls ending up side-by-side on their tee-off drives on 7. Maryellen Stevens' jacket just dripping by the time she reached the 15th tee, but nothing dampened her good spirits.

Prizes awarded, were:

- Joe Griffith
- Lois Gillespie
- Tom Caufield
- Ken Walling
- Jim Peabody
- Norma Caufield
- Jack Henderson
- John Taylor
- Wettest
- Happiest
- Best Sport

- Low Gross — Men
- Low Gross — Women
- Low Net — Men
- K(losest to the)-P(in)
- Longest Drive — Men
- Longest Drive — Women
- Most lost balls
- High Gross
- Maryellen Stevens
- Ed Bauder
- All of them.

Hawkin Au arranged to have sandwiches and coffee for everyone after the play. This was wonderful. We were all ravenous by the time we finished. Prizes were awarded after lunch. Trophies for Low Gross to Joe and Lois. Reynolds-wrap Grill to Tom. Ken received a gadget to retrieve lost balls. Half a dozen new balls to Jack. Norma is working towards a new cart to go with the Kart-Kit she received (Xmas is coming, she hopes. Jim Peabody is looking mighty efficient with a pen and pencil set.

# TEK TALK



## Mod Department As Coordinator

According to Webster, 'To modify is to change somewhat the form or qualities of an object by partial alteration'. An attempt will be made to present herein a few facts of our modification program, which on a day-to-day basis, serves to exemplify this definition.

The modification department serves in the capacity of a group intermediate to engineering and production, whose function is to coordinate and process the details relative to the introduction of engineering-approved instrument changes into production.

### Origin of Change

Requests for instrument change find their way to the mod. dept. from four primary sources—namely: Engineering, the test department, the quality control section, and from assembly and production personnel. Let's consider in brief, the general nature of the requests as initiated by the aforementioned sources.

Engineering and test are primarily concerned with maintaining instrument and associated product performance at a high level, consistent with that which is in accordance with the initial design specifications and is known to be indicative of quality in electronic and mechanical design. When a shortcoming in performance, or area for possible improvement, is 'spotlighted' by our test personnel or field engineers, a concerted effort is made to bring forth an expedient corrective measure in the form of circuitry revision and component change.

### Quality Control

The quality control group carries on a large program of inspection and 'spot-checking' of products of our own manufacture as well as those obtained from outside sources for use here. Should variations from the accepted Tek standards in the quality of parts or services received, or in production techniques employed be observed, a recommendation is made to overcome the discrepancy.

Personnel in the various production departments, as ultimate users of the parts we purchase or manufacture, are in an excellent position to recognize a possible source of trouble, and by bringing it into focus in the early stages, valuable time may be gained and less effort expended to effect a satisfactory remedy. Enumerable instrument improvement requests received from production personnel have done just that.

### Engineer's Approval

All suggestions for improvement and requests for change are submitted to engineering and to the production office for approval prior to processing. A change, which by its nature would add to or change the value or location of an electrical instrument manual circuit diagram or parts list, would become a formal modification; and as such, would be assigned a mod. number. Non-circuit type changes—those which concern the design or manufacture of a mechanical part, or relate to changes in wiring or assembly techniques—are processed paperwise through the necessary production departments to effect the change, but are not formally written



"For we have seen his star in the east, and we are come to worship him . . . . ."

Then Herod, when he had privily called the wise men, enquired of them diligently what time the star appeared. And he sent them to Bethlehem, and said, Go and search diligently for the young child; and when ye have found him, bring me word again, that I may come and worship him also. When they had heard the king, they departed; and, lo, the star, which they saw in the east, went before them, till it came and stood over where the young child was.

When they saw the star, they rejoiced with exceeding great joy. And when they were come into the house, they saw the young child with Mary his mother, and fell down, and worshipped him: And when they had opened their treasures, they presented unto him gifts; gold, and frankincense, and myrrh." — Matt. 2: 7 thru 11

## Santa's Parties Set for Friday

With the Holiday Season so close, the tempo at Tek has speeded up, bit by bit. Due to the exceptional backlog of orders, it was voted by everyone, through the personnel committee, that work will be completed at 2:00 p.m. on Friday, December 23rd, so individual parties can be attended or, those so desiring, may leave at that time. Individual department parties will be held for those now on swing shift, which started again on December 5. An 'open house' is planned for January 3 in observance of Tektronix's 10th anniversary.

## Delay Puts Field Offices On Hook

Jack Cassidy, Field Engineering manager of the Eastern division, is here from Bronxville. In talking to Jack, he said, "All of us in the field have been on a pretty hot spot indeed! Our field office secretaries and our field engineers are hard put to explain to our customers why we cannot ship Tektronix instruments when they need them.

Two things have brought this about: first, our engineers in Portland have created such fine instruments that our customers have ordered in quantities beyond even our most hopeful expectations. Secondly, the present day expansion trends in the Electronic and other industries using our instruments is staggering to behold, and multiplies our problem.

While our field people are under fire, our immediate problem is to substantially increase our estimate production rate. I sincerely hope that the same ability, courage, and singleness of purpose on the part of Tektronix people, which has brought about the creation of such fine instruments as we offer to our customers, will now be directed toward reaching a successful solution to our present day production problem."

as modifications.

### Requirements Notified

The next step in the processing of the mod is to direct the change request to the attention of the requirements section. This group will supply the purchasing department and stockroom with such information as is necessary to add to, or remove from control and stocking, the part or parts whether purchased or Tektronix-made.

After the requirements screening has been completed, the authorization to introduce the change into the particular department effected is given to the pre-production group. The members of this group alter the official wiring or assembly samples together with any existing paper records that may be required in the production of all the items effected by the modification. The mod department obtains through the drafting department and the engineering model shop, revisions in shop drawings, templates, and jigs as required by the mod. When the pre-production group has initiated the change in the particular instrument chassis or assembly, a modified instrument tag, bearing the modification number and a brief description of the change together with the starting serial number, is attached to alter the test department of the change. (Continued on pg. 3, col. 3.)

## Basketeers Lead Industrial Set

Tektronix is playing this year in the Industrial League of the Portland Basketball Association and is presently leading the league of eight teams with 4 wins and no defeats.

The remaining schedule for 1955 is as follows: December 14, American Sheet Metal at Cleveland High School at 8:15; December 21, Osborne Electric at Jefferson, 9:20; and on December 23, Carnation Milk at St. Johns Community Center at 8:30.

A welcome is still extended to anyone wanting to try out for the team. Contact Bill McCord in the engineering building for details.

All of Tek's basketball players, 20 strong, poole their money and are going to travel en-masse to Corvallis on December 20 for the big double header. Oregon and Oregon State will be pitted against Northwestern University and Illinois on that evening.

## Profit Share on Employee Paycheck Anticipated for Christmas Stocking

Tektronix shipments set another record during November, providing a profit share for the month of 80% of base pay, 20% to be held in the Retirement Trust and 60% to be distributed. Your last paycheck contained half of this 60%.

The excellent November performance brought estimated profit share for the period June thru November to about 53% of base pay, 13% for Retirement and about 40% current, half of which has already been advanced to you. The other half will be paid just before Christmas. If you worked during the profit sharing period December, 1954 thru May, 1955, your check will contain a little over 2% of your base pay for that period as a result of the retroactive repeal of a provision of the tax law explained in the September Tek Talk.

Altho November shipments were 15% higher than September, the previous record, they were still slightly less than orders received, which equalled the alltime highs set in June, July and October. Usually we expect orders to decline after July. The continuation of this high level of orders has forced us to plan an-

other increase in number of employees.

To handle these, and to relieve present congestion, a small swing-shift will be worked until enough additional space has been provided to allow single shift operation again. Various layouts of building arrangements are being considered, but since the plans are being made for long range, it will probably be a long time before the second shift can be dropped.

Test department has shifted into high gear, and is now handling everything that is fed to them. The engineers temporarily loaned to test have also made this possible..

## Holboke Rites Held

Tektronix lost a friend and a valued neighbor on December 3 with the unexpected death of Henry J. Holboke of 9400 S.W. Barnes Road.

Mr. Holboke moved to this location in 1899 and had been in continuous residence up until the time of his death. The property used for the expansion of Tek's parking lot had recently been purchased by us prior to his death.

# Tek Talk

# — THE BIN. —

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Composition — Gisle Borlaug      Photography — Ed Egan

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Engineering — Margie Guthrie	Field Eng. — Will Marsh
Mech. Eng. — Armon McDowell	— Jack Day
— Slim Sorenson	— Fran Egan
Stock, Purch. — Dick Millington	Export, Shipping — Orpha Enmark
Test — Sandy Sanford	Mech. Assem. — Margaret Ryan
— Pius Scheer	Unit Wiring for
— Lloyd Sharp	Assem. 1 & 2 — Reggie Green
Shop — Al Foleen	— Betty Jones
— Hank Jones	— Wilma Stapleton
— Duncan Bergeron	— Corky Hymes
Transformers — Jane Tomkin	Cables — Margaret Clymens
Ceramics — Helen Bohwer	CRT — Clara Knox
Panelcraft — Lois Bieschel	Manuals — Audrey Duyck
Front Office — Yvonne Hoffer	

## Merry Christmas!

One of our best loved Christmas carols is "Silent Nnght". It was first sung in the tiny village church of St. Nicholas in Oberndorf, Salzburg, Austria on Christmas Eve, 1818.

The meaningful lyrics were written by Josef Mohr, the assistant pastor. Franz Gruber, the church organist, composed the melody. But as mice had eaten away the bellows of the church organ, writer and composer had to be content with guitar accompaniment, when they sang the carol for the first time.

In the middle of the 19th century, a group of Tirolean singers brought the song to our country and it was left to Madam Schumann-Heink to immortalize the carol starting in 1898.

We can only wish each and everyone of you a Merry Christmas and let the miracle of Christmas be proclaimed from this birthday carol, "Christ, the Savior is born."

## New Faces in the Same Familiar Places

All of a sudden Tek Talk realized there were a lot of new people who hadn't been welcomed to Tektronix. To acquaint everyone with them and the department in which they work, we note:

### In August came:

Margaret Andrews	Coils
Minnie Berger	Unit Wiring
Gerald Crawford	Mech. Eng.
Ed Hopper	Final
Josephine Howrey	Capacitors
Effie Kenady	Accessories
Donald Lange	Shipping
Bill Love	Receiving
Walter Lowy	Final
Paul Magnusson	Test
Al Maxwell	Janitor
Kieth Morrill	Test
Norman Olson	Unit Wiring

### During September:

Carl Anderson	Engineering
Charles Brock	Unit Wiring
Millie Cantrall	Unit Wiring
Mike Cavanaugh	Shop
Marian Crowell	Capacitors
Joe Drapcak	Test
George Fullmer	Unit Wiring
Pat Graham	Field Engineering
Ed Healy	Test
Wayne James	Final
Phyllis Jensen	Accounting
Bob Kaufman	Final
Marilyn Lehman	Unit Wiring
Rod Skelton	Mech. Eng.
Neil Skinner	Test
Paul Soderquist	Test, but got an Army call. 11/17/55
Ken Spooner	Test
Al Stewart	Shop—Plastics
Bill Stout	Unit Wiring
Deirdre Tomkin	Capacitors
Cal Watson	Shop
Wilma Webb	Capacitors
John West	Field Engineering
Bob Wellington White	Shop
Helen Young	Capacitors

### October brought us:

Jack Belless	Test
Barbara Bidwell	Unit Wiring
Virginia Comstock	Assembly
Cecil Conrad	Test
Patricia Davis	Assembly
Wilson Franck	Shop
Irvin Fried	Test

Loretta Hamel	Unit Wiring
George Hashizume	Test
Coral Jenkins	Assembly
Deane Kidd	Engineer — returned from Service.
Kathryn Kroeger, Taffy	Fld. Eng.
Lloyd Maurer	Test
Gordon McGougan	Shop
Lloyd Morris	Capacitors
Alta Persons	Assembly
Virginia Sands	Field Eng.
Geraldine Schweitzer	Ceramics
John South	Shop
Sam Tabshy	Test
Dorothy Van Maren	Field Eng.
Elizabeth Wallace	Capacitors
Monttie Wallis	Ceramics
Barbara York	Capacitors

### And thru November:

Jack Banister	Test
Ella Beaver	Silk Screen
Helen Berger	Assembly
Eugene Buell	Stock
Faye Burdick	Fld. Eng. in Chicago
Harold Busch	Test
Francis Burton	Assembly
Betty Carter	Assembly
Orpha Daily	Assembly
Marge Day	Field Engineering
Cal De Pass	Test
Warren Dixon	Test
Catherine Egger	Assembly
Egön Ellsner	Test
Dorothy Erdt	CRT
Lucille Field	Assembly
Irene Foxton	Field Eng.
Martha Gibbs	CRT
Joyce Hall	Ceramics
Norma Harada	Field Eng.
Alan Hayes	Assembly
Ellen Holmes	Assembly
Silvi Kalmann	Assembly
Joan Karcher	Field Eng.
Grace Malone	Capacitors
Margaret Pearson	Capacitors
Glenn Pelikan	Assembly
Newton Phillips	Stock
VyLette Putman	Prod. Req.
George Riley	Panelcraft
Donna Rohrer	Ceramics
Eberhard Von Clemm	CRT
James Zika	Prod. Req.

### Personnelities

Bob Duhrkoop and Phil Mallory have traded in their Stock coats for a pair of dykes and a soldering iron. Bob is in training department, Phil in assembly.

Charles Jay is in training now giving out with the fine points of wiring.

Finals has five new hands in Joe Drapcak, Ed Hopper, Wayne James, Walt Lowy, and Bill Price. At the present rate of production, they're mighty welcome.

Frank Lucero can still be found near his cubby-hole, since his transfer to test department. I thought for a while we'd lose him in Gremlin Gulch.

Betty Glasnapp and Gloria Montag are now in quality control. Both are well-qualified, what with their past experience in assembly.

Harda Kauk is Assembly's loss and test department's gain.

Orv Olson has transferred to crt production from capacitors. He works nights so he can go to Portland State days.

An automobile accident on December 5th, involved three Tektronix people on S.W. Canyon Drive en route to work. Joe Drapcak, driver of the car, had as his passengers, Dierdre Tomkin and Lloyd



Morris A head-on collision resulted when an oncoming car slid across the highway into Joe's car. Lloyd was hospitalized at Good Samaritan overnight with head injuries. Joe and Dierdre suffered from shock and minor bruises.

### Hitchhiking WAC

Darlene Adams, ex-mech. assem., now in WAC's, hitch-hiked home from Washington, D. C. on an army B25, just to be Maid of Honor at sister Kay's wedding. Swathed in a GI blanket and wearing a parachute, but in a comfortable seat, she made the trip in a little over two days. She stayed overnight in Albuquerque, N. M. and again Riverside, California in the WAF's quarters at March Air Force Base. They were wonderful! At San Francisco she hired a Cadillac, no less, complete with chauffeur, to hurry her to the SF airport to catch her plane for Portland. It cost her \$14.00, and all the rush, and then found the flight had been canceled for an hour. She says the West Coast's 'Champagne' flight is everything they say it is. First class accommodations and wonderful service. While here, she helped out in mech. assem. just for fun, and caught up on a lot of visiting with old friends. It was good to see her, too.

Tek-Tones appeared on the program, 'Dinner at Bart's', 10:30 p.m. Monday, November 28th on KPTV, Channel 27. Following an interview, they sang 'Dry Bones' and 'Coney Island Babe', two fast-paced numbers. This TV Debut was Bob Jackson's finale, because he's going on swing-shift in December. The quartet could sure use a baritone. Anyone for har-mo-ni-zing?

Margie Day was welcomed back to Tek a few weeks ago. She is an

old friend of a lot of us, having worked here before going east with husband Jack. She operated the 'squawk box', as it was called then, on the swing shift. Welcome home, Margie.

Awfully glad to hear Will Marsh is recuperating so fast.

Just to show how busy front office is these days, the girls didn't catch on until 9:30 on the morning of November 23rd, that Yvonne Hoffer was wearing her lovely engagement ring from Pat Moran. She's still teasing them about all the pointing, tearing paper, etc., she did to attract their attention. Congratulations to you and Pat, Yvonne, best wishes.

One of Tek's specialist's at opening offices is our charming visitor, Evelyn van der Veen. In 1952, Evelyn started at Bronxville and after indoctrination went to Syracuse. From there she went back to Bronxville and was in the division office for a year. Then to Cleveland for a six month period which took her to Chicago and the central division.

Now Evelyn is back at Tek's home office for orientation and doing some real spade work for the initial setting up of the secretarial portions of the new field offices. She is soon to leave for Menlo Park and the newest of the division offices.

Welcomed with Evelyn is her doctor husband who will continue working on his specialty in the Peninsula area.

Winding up vacations in ceramics department, we have 'Nimrod' Archer, formerly known as Rose, who bagged her deer this season.

Charlotte Peterson, husband Bud, and two sons, Jim and Jerry, went on a hunting vacation also. They didn't get a deer, but had a wonderful time tramping thru the woods and enjoying the wonderful Eastern Oregon weather.

### Seen Around Shop —

Les Purcell doing a construction engineering job on shipping door to keep canvas from blowing away during snowstorm. Credit Union's Shadow keeping 'eye' on Marv Lemley' who wants a new car. Virg Hall waiting for a wheel to fall of his new Chev. (90 day guarantee is up). Hank Jones figuring (and how) to be in his new home by Christmas. Rodger Carter's blue nose-from lying under his house thawing pipes during the 'November freeze'. Part-time merchants hawking wares, like: Tom Ruyle and his walnuts at \$27.; Harvey Hansen and his 'spuds', \$3.50 per 100 lbs.

Via Tek Talk: Helen Reed - glad you're doing so nicely now you're home from the hospital.

Jean Anderson, Cables, is wearing her engagement ring from Clarence Lohse from Portland. Congratulations, both of you. December 12th is the wedding date.

Gloria Montag turned 'Santa's Helper' early and is aiding personnel. She's doing ably and it's very much appreciated.

Bon voyage and bon chance to Reggie Green who sailed December 9 from Seattle on a freighter to Yokohama. There she changes ships and continues to Hongkong, Singapore, Penang, Rangoon, and Calcutta. Reggie plans to spend two months in India and hopes to get permission to go up the Kashmir Valley.

Leaving Bombay, our feminine Ulysses goes to Zanzibar and wanders up the East Coast of Africa on a cargo boat that calls at many ports that are not on the regular run. Then comes a trip inland and a use for all of the film that Reggie has hoarded these many months — a photographer's safari into Tanganyika and a look at Mt. Kilimanjaro and eventually up to Cairo. From Cairo, she sails to Marseilles and from there Reggie has made no itinerary. We are all hoping for an occasional postcard.

And now, the question, what happens to Reggie's baby alligator? First of all, it has grown from 9 inches to 15 inches and Jean Jackman has promised to take over. Any angleworms will be gratefully received!

Speaking of bargain hunters and and it wasn't a Friday surprise but Les Stevens, Bob Leipzig and Jack Henderson are now chain experts. Les and Bob made a mad dash during our recent winter scene for "something better than chains" — "something cheaper than chains" — "easy to apply" — "a money saving device" — but with the noon hour, a dash was made for town and they bought a clamp gadget practically guaranteed to get you out of anything.

In a trial run up Barnes Road, they lost one half way up and then had to hunt through the snow — this process continued as standard procedure every five minutes while swerving back and forth for traction. We understand that Les now has one and Bob has one and never the twain shall meet — in addition the white sidewalls wear red very well. Jack happily states that he went along just for the ride — but never again.

We notice in the roving press that George Roussos has been appointed advisor for the Greek Orthodox Church Choir Federation by Bishop Demetrios. George has served as chairman of this committee for the last two years. The choir federation is composed of the states of Oregon, Washington, Montana, Idaho and Alaska and British Columbia. (And on top of that George took off for a well deserved vacation [he said so] to the sunny climes of California and way points.)

Mary Lulow of capacitor department was given a farewell party and 'hanky' shower by all her friends at Tek. Hankies and/or scarves, to be



exact. She's been working at Tektronix since September, 1950, so it will be lots of fun just being home with her family. We'll miss her merry brown eyes and the lovely smile she had for everyone. Tek's farewell gift was a Shaeffer pen and pencil set.

Mary was the first girl in capacitors 2½ years ago. There hasn't been a transfer or a termination until now, and Mary is the first one to leave. Capacitors has always enjoyed a warm, friendly companionship as evidenced by this unusual record.

With those friendly grins, spreading an early Christmas spirit around, are Jack Cassidy, Fred Hart, Francis Frost, Vic Fricke, Betty Pray, Gerry and Ginny Kraxberger, and John Mulvey. It's good to see them again.

## Sharp Continues on Torrid Temperatures

The transformers for our scopes are vacuum-saturated with a special varnish and baked in T-controlled ovens. Silk-screen and printed-circuit operations both require close control of temperature, as do the degreasing vapor-oven, pickling vats, and paint ovens in our shop.

The cycle-room, where our scopes receive their final shake-down before calibrating, is equipped with thermal controls that turn on large blowers if the temperature gets too high. If the blowers fail, the current to the cycling racks shuts off automatically.

The pop-dispenser, refrigeration, and water-supply for the coffee urns are perhaps more down-to-earth examples of T-control; and last, but far from least, what about the scopes themselves? All our later models are equipped with a thermal "cut-out", a gimmick about the size of a silver dollar which shuts off the electric power to the scope if it becomes overheated. In some, a "thermal relay" retards the application of high voltages to the tubes, after the power is turned on, to allow the tubes to "warm up" first.

What kind of device is necessary to obtain T-control? Well, there are several in use here. The most common, of course, is that old stand-by—the bimetallic strip, composed of two dissimilar metals bonded together. Heating such a strip causes one of the metals to expand more than the other, and the strip bends. This action can be calibrated and made to close or open switches at any pre-determined temperature. Another type is a closed system consisting of a capsule, connecting tube, and metal bellows, in which a liquid or vapor expands or changes pressure with rising temperature, causing the bellows to expand and operate a switch.

Another type suitable for operation beyond the useful range of bimetal or capsule, is the thermocouple-galvanometer-relay. Two wires of dissimilar metals, such as iron and constantin, or platinum and platinum-rhodium are welded together at one end, and connected to

a sensitive meter (the galvanometer) at the other. When the junction of the wires is heated, a tiny electric voltage is set up, causing the meter to deflect. The end of the pointer carries an electric contact, which operates the relay, which controls the heating element—whew!, and turns off the heat. This type works well to above 2,000°F.

Oh, we have a fancier one than that! The electronic bridge. This kind of bridge has nothing to do with Brooklyn or the Golden Gate; it is simply four resistors connected in the form of a square and "balanced", so that a current passed from one corner to the corner diametrically opposite, will produce no voltage between the other two corners. Now, one of these resistors is made of a special substance which will change resistance in a known manner when heated or cooled, thus throwing the "bridge" out of balance, and producing a voltage between the last-two corners. An electronic sensing device connected to these points does the rest. By making one of the other resistors variable, the device may be set to shift balance at any desired temperature within the useful range of the instrument.

Descending from the complex to the simple, we find the pyrometric cones we mentioned in discussing the ceramics section. These are carefully calibrated in manufacture, and can be obtained to indicate quite a range of temperatures commonly used in kiln firing; but they are in no sense an automatic control device. They must be watched carefully as the desired heat condition is approached slowly.

We can see now that the T-control problems of Tektronix run a very wide range of temperature, application, and method; and practically all of them are vitally important to our continued production of the top-quality instruments which have made Tek foremost in this field.

gave the keynote address, speaking on "New Horizons for Management". Dr. Robert R. Aurner, vice president, Management Consultant Division, Scott, Inc., addressed the dinner session on Saturday, on "Management Discovers New Treasures in Better Communications".

## Human Relations Institute Held

Starting last year, the National Association of Foremen increased its services to the member clubs. Among the new and advanced services is the 'Human Relations Institute', which has been put on by NAF, with the cooperation of local clubs, in many areas of the country. It has been very well received and appreciated. It is the result of the work that has been done by the NAF staff. A program of this kind was presented for the first time in Portland, in cooperation with the Greater Portland Management Club, on December 9 and 10, with afternoon sessions at the Masonic Temple, and evening sessions at the Heathman Hotel's Georgian Room. A large group from Tektronix attended.

Mr. Ray Monsalvatge, Manager of Education, National Association of Foremen, led a conference—"A Code of Ethics for Management", on Friday, December 9th. He acted as Moderator for a Panel Discussion 'Problems in Labor Relations and Human Relations' on Saturday afternoon, December 10th. Mr. Monsalvatge has had wide industrial experience in the United States, Puerto Rico and Canada, and has held numerous positions with NAF. He has traveled and spoken extensively in connection with his NAF activities, and has written a number of articles and booklets on club operation and other subjects. He was assisted in the Panel Discussion by Dr. A. K. Brintnall, Boeing Airplane Co., Mr. Edward Cooley, of Precision Cast Parts Co., and Mr. William Welch, Timber Structures, Inc. The panel members were men who have had a great deal of experience under diverse conditions in the industrial relation field.

Mr. L. L. Cunningham, president, Business Institute of Milwaukie,

## Accounting Aid

Have you noticed those mysterious whirring sounds emanating from the Accounting Department? Well, if you've looked in the door, then you know Tektronix is now the proud owner of a Bell and Howell Micro-film unit.

One of the many problems a company encounters, as it becomes larger, is the storage of more and more records. After casting an inquisitive eye at the growing bulge of records in the quonset hut, the Advisory Group decided perhaps this was also one of our problems. A micro-filing program was discussed and a committee appointed to look into the situation. Today you can see the result of all these combined efforts being used to film accounting records. Soon all departments, who wish to enter this program, will have their non-current records on film.

One of the many advantages of microfilm concerns storage space. Since a frame of film is much smaller than the original document, tremendous savings in storage space are available. One half-sized file drawer of microfilm rolls will hold the equivalent of 200 file drawers of original documents. Not only does this release valuable storage space for production use, but considerably reduces the need for purchasing new filing and storage cabinets.

Microfilm adds to efficiency too. Once records are filed on film, they cannot get out of order, and the problem of mis-filing is virtually eliminated.

Another advantage is increased safety from fire and heat.

## Junior Achievement, Inc.'s "J.A. Print Co." Visits Tek

Tektronix is participating in the project of Junior Achievement, Inc., a national organization whose purpose is the practical side of business training of high-school students. J. A. Print Company, packaging and distributing 'Scenic Stationery', has been organized. Ken Walling, Al Foleen, and Emil Evans are acting as Business, Production, and Sales advisors, respectively.

The U. S. is divided into 77 J. A. districts, Portland being the 17th largest with 35 Junior Achievement companies to its credit. Each J. A. company is sponsored by an established business firm and assisted by three persons from that firm who act as advisors. Private citizens help finance this project by purchasing shares of stock at 50 cents per share. Each student is required to own one share of stock entitling him to be a member of the Board of Directors.

Business is carried on thru production meetings held once a week. During these meetings, stationery is gathered and boxed, sales problems and tactics discussed, progress of the company scanned as to profit



or loss, operating methods and expenses evaluated. Actual business conditions emulating those of business firms the city over provide the same problems and their solutions, facts and their acceptance, questions and decisions that the students will face in real life. These are not "namby-pamby" student companies. They are in business to make a profit in experience, and money, if possible. Sales forces are busy during the week using all types of ingenuity, tact, and diplomacy to further the sales of their products.

The company has a President, Vice-President, Secretary, Treasur-

er, Production and Sales Managers. The Board of Directors holds meetings in the formal manner of the Board of a senior corporation. The tenure of the company runs concurrently with the school year, being liquidated at the end of the spring term. Profits or losses are evaluated at this time, with dividends paid to each share-holder from any profits. Everyone learns something profitable from these projects, win or lose, sometimes, more from the loss than from a gain.

It has been found the mortality rate of these student operated companies is no higher than the national average of adult businesses. Handling of actual business operations by the students gives them a firm foundation augmenting their school training. Development of their natural aptitudes for selling, designing of packaging, bookkeeping, etc., helps the students decide on future goals. Their weak points can be strengthened, their future made more successful thru their experiences now. American Business of the future will be more secure, better managed, because of 'J. A. INC.'

Just a word here, to quote all 3 advisors: It's been a really pleasant experience to act as advisors for these young people. Both sides profit from solving problems, experimenting with new and fresh ideas. Anyone interested in young people knows you learn more and get great satisfaction for yourself by helping youth groups such as JA reach their goals, and there's always room for interested parties who would like to be an advisor.

## Santa's List

Les Stevens and Bob Leipzig—sawdust tires, so they won't have to bother with chains ever again.

Tek-Tones Bob Jackson switched back to days—or a new baritone.

Lloyd Davidson—four hands, three sets of ears, and televised telephones so he can see the merchandis he's talking about. (Lloyd is taking Bob Duhkoop's place.)

Dick Ropiequet—a book of floor plans for additional home expansion.

John Kobbe—a double-size parking space to accommodate his new green Ford.

Dick Rhiger—a pocket-size fire extinguisher for cigarettes, pipes, and see-gars.

Bill Lee—a custom-made arm sling as an aid in holding up his right arm when loaded down with the jumbo-size beer mug he uses as a coffee cup.

Gisle Borlaug—To get on a bowling team on tuesday nights to take up some of his leisure time.

Don Pratt—A pair of ear plugs so when Bill Bates drops a wire spool it will not wake him up before coffee time.

SUCCESS is the result of doing something in an unusual manner by someone who has character, courage, intelligence, common sense, skill, a keen observation and a real desire to be of service to his fellow man.

—O. V. Baron

which explains the kissing that goes on under it.

Hanging up the stocking came by way of France, and Santa down the chimney to fill it from the Norsemen. Holly goes back to the Roman Saturnalia and our Christmas cake had its beginning in Rome. To England we owe our plum pudding, mince pie and the Christmas card which she introduced in 1846. The Red Cross Christmas stamp came from Denmark and Delaware gave America its first in 1907 and so we have our TB seals annually. The U.S. added the sleigh bells and the reindeer in 1822 and built Santa a home in 1866 at the North Pole.

## Ceramics Dept Adds Extrusion Equipment



The ceramics department is expanding these days in other ways besides adding new girls. Our long hoped for extrusion machine finally arrived and is now installed and producing in the mold room in the quonset hut. Due to Jack Tate's ingenuity and the department's persistence the machine is producing at a good rate and improving daily, now that the usual wrinkles involving new machinery are ironed out.

Its main operation is to extrude (as toothpaste from a tube) damp

clay in strips ready to saw to proper lengths. The machine is expected to increase production by several hundred percent, thus paying for itself in a matter of a few months of service. Besides increasing production, it practically eliminates slip casting and mold making. 60 to 80% of ceramic strip production is now by extrusion. Other operations that take much time and hard work now, may be shortened or eliminated later. Needless to say, the girls in ceramics welcomed it with open arms.

## Mod. Coordination

(Continued from page One.)

### Manual Correction

The final step in the processing of the mod is to notify the instruction manual department that the modification about which they had been forewarned is now in effect. They will then take steps to correct the parts lists and schematics in the instruction manual from the effective serial number forward.

All that remains to be done to complete the modification cycle is for the mod department to write a complete detailed description of the modification and to provide development engineering, field engineering (sales), production test, requirements, and the repair department with a formal copy.

The next time a modification comes your way, think of it for what it really is—a means of insuring that your product and mine will maintain the enviable position that Tek-made products have earned and rightfully hold in the industry.

## Turkish Stamp Dedicated

Santa Claus, will be commemorated by Turkey in a special issue postage stamp released on December 10, portraying the Church of St. Nicholas at Demre, home town of the original patron saint of Yuletide who was born, lived, and served as Bishop there more than 16 centuries ago.

Because many of his charitable gifts were made at Christmas time, St. Nicholas became identified with holiday giving. His reputation soon spread throughout the world as the Patron saint of sailors, maidens, and, especially, of children.

## Many Customs from Santa

While the Christmas Tree antedates Christmas itself, the first on record did not appear until 1605, in Germany. Christmas gifts stem from a pagan custom identified with the New Year, and hanging them on the tree, from the tree worship of the Druids, who dedicated the mistletoe to the Goddess of Love,

### Questions & Answers

Dear Editor:  
 What is this new supervisor's group I hear about? What is it for, and who can be on it? I understand there are a couple of other groups such as the Advisory group and the Management Committee. What are they, and where do they fit into the operation of the company?

Elaine James

Dear Elaine,  
 A series of articles is in preparation right now which discusses the purpose and operation of all of the groups here at Tektronix. Briefly, all of the groups are the result of an attempt to develop closer cooperation and better understanding of the problems in the different parts of the plant here at Tektronix. These groups also serve to broaden the participation in the consideration of these operational problems.

The Editor

Dear Editor:  
 My property taxes jumped again this year. One of my friends told me these taxes will keep going up. Will they always go up, or can I dream they may someday come down?

If taxes are so high on 'my little grass shack', what about taxes on those big concrete, steel and glass air-conditioned buildings of Tektronix? Taxes on those pretty buildings must be — WOW?

How does the property tax system work anyhow, and is it any worse or better in Wash. County than elsewhere?

Sincerely,  
 (Woe is me) Taxpayer  
 W. I. M. T.

Dear Mr. W. I. M. Taxpayer,  
 Right now I have a man working on your problem, but the question in my mind is whether or not to give space in Tek Talk for a series of articles, which it takes, to answer your questions. What do you think?

Sincerely,  
 (Your Wondering) Ed.  
 Y. W. E.

### Plastics Cured In Drying Room

To facilitate drying and storage of plastic materials, a curing room is being installed in the plastics department. Primary purpose is post-curing of molded parts and keeping raw molding materials moisture-free. Material such as Zytel nylon-resin and tenite butyrate absorb moisture readily if not stored under proper conditions. The room will be operated continuously at 150°F. Materials exposed to the atmosphere at room temp of 70°F become contaminated to above 2% moisture content. Material with 2% moisture content transmits heat much more readily, causing over-heating of molding materials resulting in weak and brittle parts. At 150°F the atmosphere will hold approximately ten times more water keeping it out of the materials and allowing for trouble-free molding and continued good parts.

Two processes of molding are used in the plastics department: injection, where material is transferred from a heated chamber thru a nozzle into a cavity; and compression molding, where powder is poured into a cavity and the other half of the die is pressed close over it. In compression molding, the application of heat and pressure serve to mold the powder into a homogenous mass, and presto—a knob, probe head, etc. There is a third method combining injection and the compression molding, but at present it is not being used at Tektronix.

Examples of injection molding are the 500 series knobs and coil forms, and the black or red graticule rings. Compression molding is used on the 510 probe body and the 310 and 315 knobs. There are 43 injection molded parts and 21 compression molded parts made by plastics department, at the present time.

### Trust Builds With Each Year

Last month's Tek Talk explained how your 'right' to the amount of profit share in your retirement trust account increased with each additional year of work you completed. You forfeit all your account if you terminate before completing two years, but all your account is yours when you complete six years. By the end of 1955, fifty-one employees will have completed six years with Tektronix.

If you terminate before completing six years, or before your account contains \$2,000, you will receive a cash settlement of the amount of your account that has 'vested' (is unforfeitably yours) in you, 2,000 or less in your account would provide such small retirement income payments that it is not to your advantage that the trust hold it for you. Usually it will be to your advantage to wait until after the close of the calendar year to receive your settlement. If you desire, you can have it soon after you terminate, with a sacrifice of the additions that would be made for that year.

If you terminate employment after completing six years, and there is more than \$2,000 in your account, it will be held to provide retirement income to you, regardless of where you then work. This is very valuable to you, for in no other way can you have such an investment opportunity without tax erosion.

The amount in your account will change only once a year, as of the end of the year. At that time your share of the profit share for the year, and of the earnings from investment are added to your account. Therefore, if you insist on a settlement before the end of the year, you must take it on the basis of the amount in your account at the beginning of that year. In either case, you only get the percent of the account that has vested in you on the basis of the number of months you were paid for working.

Next month's Tek Talk article will explain the investment policy adopted by your committee. Your account statement, to be received late in February, will list the investments in the Trust Fund.



### Credit Union Changes Accounting System

January 1, 1956 will find your Credit Union using a Burroughs Sensimatic-accounting machine. One of the reasons for changing the accounting procedure is to improve the appearance of the records while speeding up the accounting operation. The new system will replace the member's passbook with a statement similar to the type used by banks. The statements then will be mailed to the member's home every three months. Those members desiring to keep a passbook will be asked to bring them to the office periodically to have them brought up to date.

In this way, more time will be available to carry on other important office operations and still provide the good service so necessary to make a good credit union.

### Tiny Tek's

Test department is hearing lots about baby care from three proud dads these days. Mike Park's son Larry Bernard arrived on October 30th, just 10 days after Frank Kopra's son David Anthony. Glenn Park can hold his own in the conversations now, too. Jefferey Glenn arrived on November 10th to help dad keep in the know.

Gloria Hanna's son Rodney Michael picked the stormiest Friday he could find to announce his arrival. The trip to the hospital started with troubles like skids, putting on chains, and snow everywhere. But he's doing fine now, only bothering mom and dad when he's hungry.

### New Platen Press Nuptials Noted

A new attraction to the shop equipment is the addition of a new 125 ton K. R. Wilson platen-type hydraulic press. This press is now installed and operating in the shop. There are a great many parts now being contemplated for this platen-type press.

Presently the press is turning out all the front panels, sub-panels and overlays for the 310 instrument, plus the sweep and power chassis for the 530-540 Series instruments. It is also being used for the blanking of the CRT and plug-in units for 530-540 Series scopes.

The designed purpose of this type press is its ability to perform complete drawing operations such as the drawn corners on the 310 instrument. This characteristic of drawing rounded corners is being designed in all new instruments.

The versatility of this type press, for its drawing, blanking, forming, and piercing operations, make it an ideal piece of equipment for Tektronix.

October 19th, Evelyn Dunham, secretary of the Chicago office, became the bride of Teunis van der Veen. Doctor van der Veen is from the Netherlands. He will complete his residency in California. They spent part of their honeymoon driving across country to Portland.

Burton Jones, shipping, was married to Doris Elaine Updike in an evening ceremony on November 4th at the Woodlawn Methodist Church in Portland.

Kay Adams, mech. assem., became Mrs. Roy Newman on November 12th. It was a lovely wedding with color-scheme of pink and white carried out in the dresses and flowers. Her sister Darlene acted as Maid of Honor, coming home from Washington, D. C. to take part.

Frances Traver, unit wiring, became Mrs. Ernest M. Gunter on November 19th. They were married in a noon-time ceremony in Immanuel Temple parsonage by Reverend John Kennington.

Bob Carrol, finals, was married to Colleene Martin in Stevenson, Wn., on November 26th.

Eddie Richmond's (test) son, Merlyn, who is a pre-dental student at Portland State, will be married December 17th. The bride is Barbara Yates, who works in the Portland State Registrar's office.

### Down The Alleys With Tektronix Keglers --- Every Night of the Week

Confusion reigns, this is the second third of the first half of the 1955-1956 bowling season, so states Harlow Loucks, President of the Tektronix Bowling League. In writing about the Tek bowling league in Tek Talk, we want to be sure to include people from Tek who are bowling on other teams. Someone is bowling every night of the week on one team or another. Competition is very strong. In fact, it's bowling balls at 50 paces.

Here's a list of the existing teams which contain at least one or more Tek members. A little later on we hope to publish the way that these teams stand in their respective leagues.

One complete team and some other teams will attend the Oregon State Bowling Tournament to be held at East-Side Bowl January 4 thru February 26. This tourney will consist of a team event, a doubles event, and a singles event. Any ABC sanctioned bowler having bowled 21 games or more before September 1955 is eligible to bowl in the tourney. A series of 3 games will be bowled in each event to determine the winners.

Our sincere apologies to anyone we may have missed in this article and we hope to get you next time.

**Tuesday:**  
 Livingston Plumbing — City of Roses League  
 Showboat

**Wednesday:**  
 Sleepers Hollywood Keglers

Hot Shots Hollywood Keglers

Hollywood Alleys Hollywood Keglers

**Friday:**  
 Donna Kay Valleyette League

And now the Guys:

**Monday:**  
 McGeorge for Appliances Canyon Road League

Hillsboro Moose Lodge Canyon Road League  
 St. Christopher Catholic Men's League

**Tuesday:**  
 Tektronix Men's Commercial League

Kay Bartmess  
 Evelyn Johnson

Ruby Carter  
 Ruth Lukens  
 Harriet Anderson  
 Kay Bartmess  
 June Wooldridge  
 Lorraine McNiel  
 Dee Tmkin  
 Rose Duane  
 Clara Knox

Evelyn Johnson  
 Gladys Koch

Chuck Gasser  
 Gisle Borlaug  
 Ernie Plapp  
 Cliff Breazile  
 Dick Shmidt  
 Don Calnon

Don Ellis  
 Don Calnon  
 Dick Ropiequet  
 Roger Carter  
 Burt Eberly  
 Chuck Gasser

**Wednesday:**

Time Finance

Canyon Bowl Team

**Thursday:**  
 Terry's Furniture

Tektronix League

**Friday:**

Blue Moon Tavern

900 Classic League

900 Classic League

West Slope Business Men's League

Miller Duris  
 Carl Helmer  
 Armon McDowell

Rose City Bowl

Team No. 1  
 Barbara Ekstrom  
 Lee Wagner  
 Helen Schuening  
 Marge Thorn  
 Jean Jackman  
 Team No. 3  
 Pius Scheer  
 Warren Collier  
 Helen Sherrod  
 Neil Skinner  
 Don Sherrod

Substitutes for Tek Teams:

Betty Spohn  
 Alice White  
 Hallie Todd  
 Earl Wantland  
 Charlene Goodman  
 John Durecka  
 John West  
 Chet Murphy  
 C. L. Murphy

Tualatin Valley League  
 Bill Barnes  
 Don Pratt

Burt Eberly  
 Erwin Ashenbrenner  
 Gisle Borlaug

Slim Sorenson  
 Ash Ashenbrenner  
 Gisle Borlaug

Team No. 2  
 Audrey Duyck  
 Ken Lukens  
 Orville Riggs  
 Ida Smith  
 Len Nelson

Team No. 4  
 Harlow Loucks  
 Helen Riley  
 Wilma Stapleton  
 Earle Pahlka  
 Ed Kiepk

Gisle Borlaug  
 Doug Prouty  
 Ken Lukens