



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.

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.

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.

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." banded 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 Maltery 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-agent.

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.

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 I.

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.

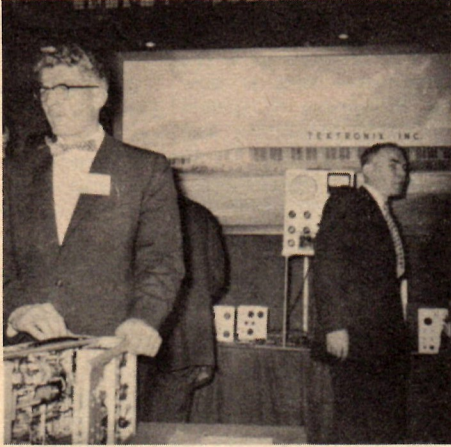
"In the Teens" — If you think teen agers are a problem, read this and be surprised.

"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.



“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.

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-

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.

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 Fishermen Form De-Liar Club

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

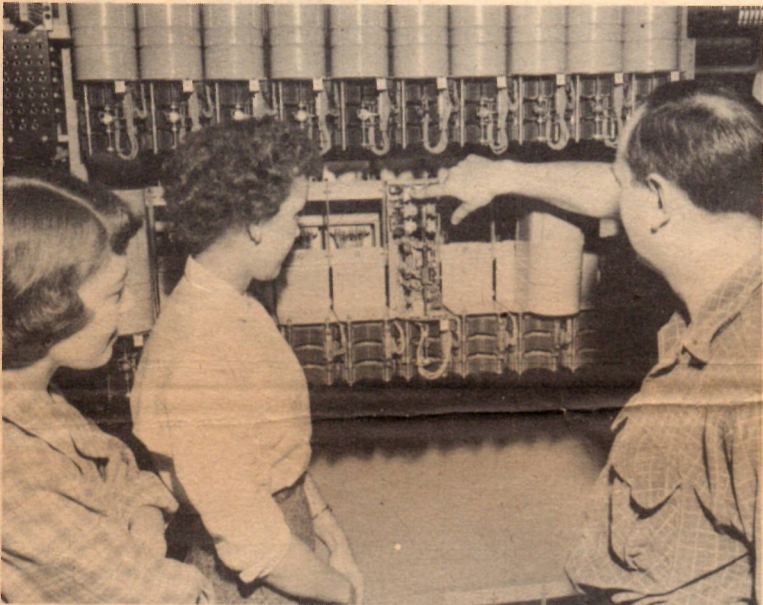
Tektronix on June 1st for the new farm and an added purchase expected in July.

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.

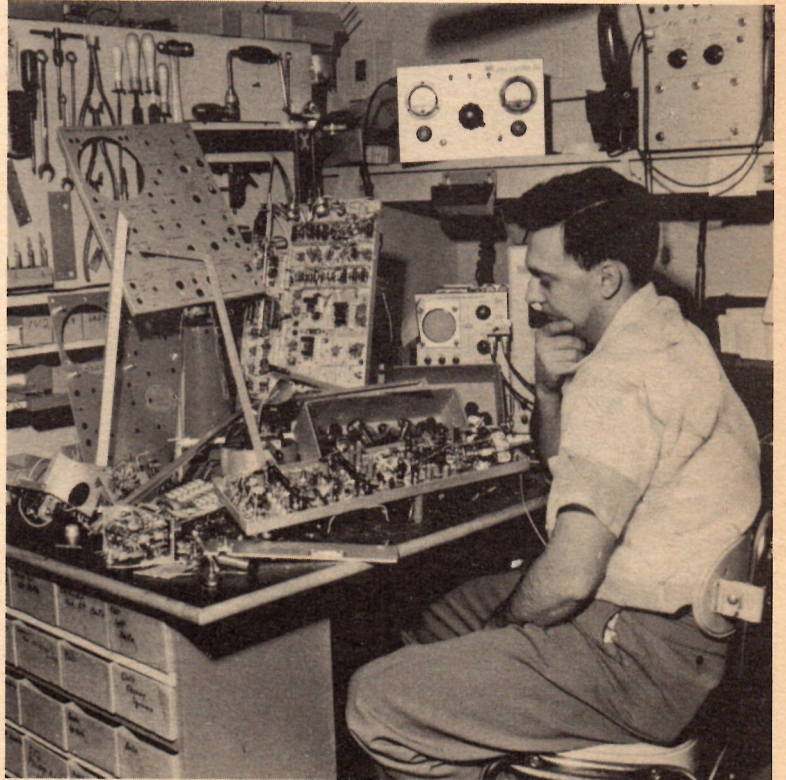
West to East in Seconds--via Teletype

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.