

Volume 3 - Number 16

Employees' Publication of Tektronix Inc.

October 10, 1955



Pictured here along with some of Tek's test men are a Tektronix instruments at peak operating condition. 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

This is a unique service offered by our field engineering department.

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 portant tools, our visitors also learn something about our general philoso-

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 wellimpressed they were by the people at Tektronix.

Customers Train In First International Relay Made By Scope Maintenance Amateur Operators in VHF QSO Test

rant officer in charge of the National Guard group was Mike Park, station W7RET (test) and two others of Relay League. 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. California and sent it on to Jim 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. Amatuers 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

Roundtop Mountain, near Timber, | (test) who along with other Portan elevation of 3,150 feet on Saturday morning, September 17. Warsemi-annual VHF (very high frequency) QSO (radio conversation) sponsored by the American Radio

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 Ashland to pick up the relay from two 3/4-ton trucks and headed for section information on 2 or 6 meters, Strickland, W7SEZ. The message 2 points for such QSO's on 220 or of the shortcuts and techniques that are part of every Tek testman's bag was a greeting from a California 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

> 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, apradio system was Jim Strickland | proximately 145 megacycles.

Vollum Starts October United Fund Drive In Tek's Annual Single Solicitation

Tek's annual single charity solicitation for the United Fund, Red the tremendous talent of our em-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

Through the first week of Octo-

Bad Beginning Just Becomes Bad Ending

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.

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 contribu-tions. Tek's editorial staff will welcome your contributions and remember the new deadline is the 20th of the month as Tek Talk's publication Club and guest speaker for Port-date has been advanced to the 10th. land's City Club.

To emphasize the importance of | ber, ten minute tape broadcasts went ployees. 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 conti-nuity. 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.

Famed Psychologist Visits At Tektronix



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

Tek Talk

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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 aim of 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 Tues-day 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.

acquaintanceship and make new sory programs. Third, by providing friends among thinking people who adequate medical and surgical care 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 wil be another series offered in the spring.

Tek Adds New Link In West Germany

Quite recently negotiations started by Dal on his visis to Western Germany were concluded with the firm of Rohde and Schwarz-Vertriebs-GmbH to act at Tektronix distributor for that country. This company as some of you may know is an elec tronic instrument manufacturer in its own right and has an enviable reputaion throughout the world for its engineering skill and the excellence of its products. Their present distribution organization is head-quartered at Berlin with branch offices in Munich, Hanover, Karls-ruhe and Koln, 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 in 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 This is a wonderful way to widen lightened educational and supervito 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 Teks

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 Cavanaughs 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 her birthday on September 8.

Adding harmony to the Tek-Tones | 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

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?

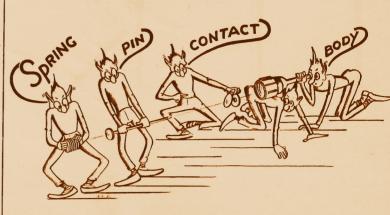
Our use of the transformer is to permit power to be transmitted at a convenient voltage (or pressure) and then stepped up or down to suit our needs. Most of our transformers at Tektronix are built to operate from the power line or primary voltage and convert this voltage to high voltage secondary voltages in order 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 inportant 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 dissatisfication 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 mapamphlets 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 care of those we have, for the betterment of our health and happiness. Efficiency is often hindered by eyestrain, and quite often glasses have been the help in raising the rate of speed and accuracy. A yearly check the widow only part of the benefit. 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 depart- tributes substantially to the estabment 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-

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 the plan, there are many aspects that concern you as a participant which should be reviewed frequently. Two of these wil be discussed in this

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 beneficiar-

Here is an example that actually happened in another plant that illustrates the costly consequences of terial in the Information Racks. Of neglecting to keep beneficiaries up eliminate the cause for this dip in special interest at this time, are the to date. The wife of a long time Blood production? 30 Tektronix ememployee 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, and efficiency. We cannot replace the very substantial benefit went to a damaged eye, only repair and aid the daughter rather than the widow a defective one. But we can take 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

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?

lishment 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.

"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. he 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 is 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 Donnors

Tektronix Blood Donors have rightfully earned the title of LIFE-

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 colect. 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 ployees did in August, 27 were ac-

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 ---

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 trans-planted 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 goingaway 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 bootees 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

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

One of Tek's favorite places is the office) and their daughter, Yvonne be asked to attend the Conference 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

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 oscillo-

scope 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 Re-Portland in October is Jack Mur-Harold (silk screen), Margie (front This large group by invitation will year around.

"SCOPES AND SCOOPS"

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 grand-children. 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

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

Welcomed in the transformer department is Lee Crocker who makes his home in Forest Grove with his wife, Velma Jean and their 10-month old daughter, Lora Lee.

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 sources Conference to be held in of services of the organizations that you may better understand their dock. Jack is a member of a com-aims and the goals they have set mittee of 48 prominent citizens who because of those in need. You give are responsible for the selection of once in October United Fund 250 civilians from the Portland area. and March of Dimes will help all



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 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 dis-tinguished 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 drawweight 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 Specialist at Fort Richardson. Carla Tek's summer student crew and was reports that she did a little pros- 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 camp next summer.

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

Engineers Preview Machine Tool Show University Project

Taking in the Production Engineering and Machine Tool Show in 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, selenoid 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 phenomena 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 year to aid in the continuance of Mr. and Mrs. Gunderson. Mr. and Mrs. Gunderson.

Tek Foundation Aids Shipments in Sept.

In September 1953, the Tektronix Foundation made a grant in aid of Chicago on September 6-16 were \$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 finnancial 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 obtuned 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 re-placed by sensations as disagreeable as those for which the patient sought

Dr. Malzack, under the Commonwealth Fund, will now take over the scientific team assigned to this project. He plans to apply his training is in psychology to a study of bebehavior 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

Letters to The Editor

The other day I asked our local letter to the editor?"

So here goes,

"Dear Editor: Why don't you have a letter to the Editor section?

Dear Fitz,

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 statetype where the writer is seeking information.

The letter making a statement but we will agree to do our best to experience. answer each question.

The Editor will refer letters rereporter why Tek Talk doesn't have garding a comment or answer to a "letter to the Editor" section — person, group, committee or departperson, group, committee or departhe said, "Why don't you write a ment for an answer. Regardless of who answers, the answer can be considered official.

Don Kepler

"Dear Editor:

Editor section". Starting with your question, we now have it.

Tek Talk to be the official voice of Tektronix and its related activities such as the Tektronix Foundation and the Retireme... Trust?"

Phil Mallery

Dear Phil,

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 inment and convey a thought or a terest and the type that may be answered in one issue. They should man) shared the remainder of the be signed.

may not require an answer. We more rules just now, so we may feel thanks all who entered and all the can't always agree to give a comour way as we go. We may want kind pepole who helped make the plete or final answer to the question to change the rules as we gain more

Don Kepler

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 pileup 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 stackedup 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

Perhaps we should also call attension 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

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 I was informed there is a possibility of a "letter to the Editor" defolding picnic table, Virginia Levens Good question deserves a good like to know what type of letters at East Lake on June 27 measuring answer. Let's have a "letter to the may be written. Can we assume the 151/2 inches (honest measure, of course!). Virginia wins a \$12.95 Tektronix and its related activities picnic thermos set. Clair Kidd entered a 171/2 inch German Brown pulled from the dark depths of the Deschutes River. A \$12.95 camp cooking kit was presented to Clair Pear Phil,

We can assume that Tek Talk is 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 fisherwomonthly prizes as runner-ups. The Perhaps we should not make any fishing club committee sincerely contest the success it was. Better luck next year to those who fished and wished (like me).

Filters From Our Field Offices



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 ex-

tend 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

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 learing 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 customercall viewpoint. Staffing the office

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.



Evelyn Dunham

Here is an old hand who moves around the country opening offices for Tektronix and has recently lonear 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



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.

