

Eastern Clan Gathers At Union

Following the NEC show in Chicago, Deane Kidd, Engineering went East to deliver a special Type 316 to the Signal Corps and offered to pass along to the maintenance and field engineers of the Eastern Division as much as he could about the Type 575 circuitry, and such that Dick Ropiequet had given the Central Division prior to the NEC show.

Jack Cassidy, Eastern Division manager, brought in as many of his Field Engineers as was practical and a total of seventeen Tekes including all the maintenance and field engineers from New York Metropolitan gathered at Union, New Jersey.

Leo Wulff, Balt.; Chris Christensen and Bill Ewin (New in the field) from Philadelphia; Dick Phillips from Boston, Scotty Pyle from Syracuse, Howard King, Jerry Kraxberger and Harry Rosebery from Long Island, John West, Harry Mayo and Jack from Bronxville and of course Harry Allison, Scot McIndoe and Joe Vistica who are based at Union.

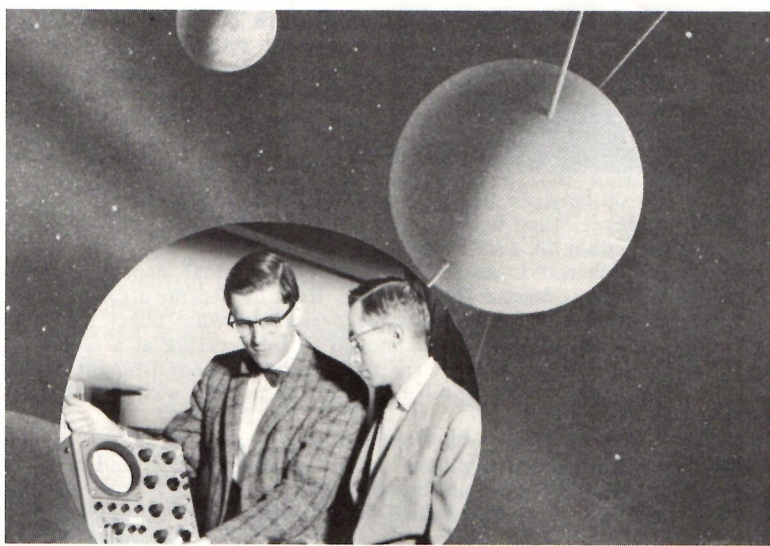
The program started off promptly at 9:00 A.M. with Joe Vistica giving a demonstration of how a dirty oscilloscope can be cleaned up spic and span in the field wash stand set-up which Union has completed. This was for the benefit of people who are soon to get into such an operation in their own offices. After washing, the scope was ready for baking out in a preheated oven—and lo and behold! in the oven were doughnuts and pastries which Marion Rothfuss and Mary Alice Peterson had sneaked in earlier, thus calling for a coffee break.

Then Dean took over and they discussed some of the basic circuitry of the Type 575. The whole group had lunch together and continued the meeting in the afternoon, not breaking up until 7:30 P.M.

Tek Oscilloscope Aids Thermal Test

For many years a completely furnished house built on the roof of Honeywell's main plant, 2753 Fourth Avenue South in Minneapolis has given engineers data for heat transfer studies. Its five furnaces, controlled by 125 thermostats, can simulate almost any problem. Today a 3×6 foot electronic brain can duplicate the thermal characteristics inside or outside any house and process the complete life span of the structure in a matter of minutes. It is typical of Honeywell's employment of new devices to assist engineers in producing more controls for human comfort.

Don Clifford, Field Engineer in our Minneapolis Office forwarded to Will Marsh a news article on the above which included a nice color photo of Honeywell's engineer, Lorne Nelson using a Tektronix instrument coupled to the 'electronic brain'. This is an example of oscilloscope application that has to do with everyday things rather than the wonder world of rockets and missiles.



TEKTRONIX ENGINEERS MONITOR SIGNALS FROM RUSSIAN SATELLITE Cliff Moulton and Dusty Rhodes made news of local interest when they reported reception and oscilloscope measurements of the pulsing radio signals emitted from the Russian Satellite.

The Tektronix Oscilloscope took many mute bows in the past month as it was pictured with top-flite engineers from coast-to-coast who proudly displayed to the eager world what they had captured on the screen of their instrument. Sputnik was in its orbit about the earth, whirling through space at almost 18,000 miles per hour and sending back to the world its intermittent and unintelligible beep-beep.

Here in Portland at Tektronix, our engineers literally grabbed Sputnik by its tail and resolved its orbit, speed and coded signals into an intelligible phenomena that could be explained to the man-in-the-street.

The man who knows is much sought after by the channels of communication when something new under the sun needs an explanation. Cliff Moulton, Charles 'Dusty' Rhodes and Jim Strickland are three Tekes who will vouch for this statement. As soon as the press, radio and TV knew about the work being done by this group they looked to them for local information on the Sputnik and its whereabouts.

Clippings from newspapers were sent in from Phoenix where satellite signals were monitored and tape recorded by two employees of the G.E. Computer Department in Tempe Arizona. They fed the tape recorded

Radiological Monitors Qualified



Don Kephart



Don Sherrod



Doug Snell



Earle Pahlka



Lloyd Sharp



Vern McAdams



Ed Hopper



Frank Bertalot

The Tek personnel shown here attended a Civil Defense course in radiological monitoring at the Hillsboro Courthouse September 11th through October 16th.

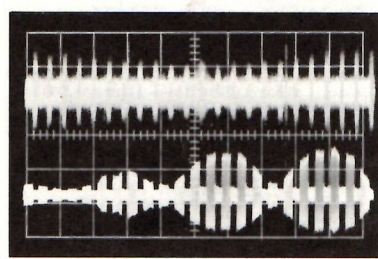
The course consisted of six weekly evening sessions, and dealt with the nature and extent of danger from hard radiation (Gamma or X-rays, Beta rays or electrons, and alpha rays or ionized helium atoms) following an atomic explosion, protective measures, and the methods of predicting, measuring, marking and decontaminating the danger areas were included in the study.

The object of the course was to train people for monitoring teams to serve in case of atomic attack. It is considered very important that industries employing a large number of people have a trained group

such as this among their own personnel to assist the Civil Defense effort in case of a catastrophe.

With the exception of Ed Hopper, Finals, the group is composed of Test personnel. (Vern McAdams is presently doing work in the Capacitor Department.) Ed and Frank Bertalot are also associated with the Washington County Sheriff's office and the training will aid them in that official capacity.

The group viewed films of the A-bomb and Hydrogen bomb explosions and engaged in actual drills with a 'hot' sample of radioactive material. They considered the Civil Defense course informative and although it was primarily designed with the Washington County area in mind the principles of radiological monitoring are universal in use.



Sputnik II (top) and I (bottom) on 535 screen with 1 sec./cm sweep.

signals into a Tek oscilloscope and photographed the display in the same manner that newspaper photos were made for the local Portland papers. Another press notice came from Philadelphia where Dr. Kenneth Franklin, astronomer of Hayden Planetarium, New York offered photographic proof of Spuniks coded transmission... again on a Tektronix oscilloscope. The Tektronix oscilloscope no doubt served in many other similar setups throughout the country. The whole Tek family can be proud of their association with an instrument so widely accepted as being scientifically and technically reliable.

The TV presentation by Cliff and Dusty carried by both channels here on Monday, October 7th was just the beginning in a series of radio presentations, luncheon talks and cool vigils on Sylvan Hill. Dusty Rhodes exited from the local scene to take part in the Toronto IRE show and east coast demonstrations of one of our new instruments, and this left Cliff Moulton to do most of the honors in keeping up with requests for information on the satellite.

The procedure our engineers followed in studying and monitoring the satellite's signal has been described here for us by Jim Strickland. An article was also written by Cliff for Electronics news and the material here was also submitted by Jim as his regular column VHF CORNER which he writes for the Sixth Army's MARS.

Tektronix Scopes Shown In Toronto

The second Canadian IRE show was held in Toronto, Ontario on October 16 to 18 inclusive. About Monday, October 14, our people began to show up in Toronto—Scotty Pyle, Ray Lisiecki and Bill Kladke from Syracuse, Jack Cassidy from Bronxville, and Charles Rhodes and Fred Tinker from Portland—all to help Marvin Crouch and Udo Lindenmeyer who are based in our Toronto Office.

The new Type 502 was included in the show setup which displayed the Type 545, Type 536, Type 575, Type 515A, Type 316, and Type 310. No problems were encountered and the group gathered in a hotel room on Tuesday October 15 to hear Fred Tinker and Charlie Rhodes tell them about new instruments.

Charlie, (untarnished by local notoriety and Sputnik fame) gave them a background on the new 526 Vector scope which he planned to demonstrate to a few TV people in New York after the show.

Attendance at the Toronto show ran well over 6000 and the only untoward incident was that Charlie Rhodes caught the 'flu' which Fred Tinker got the next week in New York City. (Carrier waves probably).

Byron Broms came in from Chicago following the NEC show and a swing about our Central Division offices. Elizabeth Neilson, Toronto field secretary week-ending in Toronto also came in for a visit.

A new record was set at the close of the show when the twenty-four cartons of equipment were packaged by those present in exactly an hour with a special thank you going to Fred Tinker who stayed through to the bitter end.

RALLY SPARKS ANNUAL UF DRIVE

Totals To Date: \$12,520.10 United Fund 3113.10 March of Dimes



Tektronix Annual Fund Solicitation got underway with a United Fund Rally Kick Off Breakfast at the Multnomah Hotel. Employee Chairman Vern Hansen and Co-chairman Lee Wagner on the right attended with Bill Lowery and Maryellen Stevens who have already done nearly two months work for United Fund as 'loaned executives'.



Later in the day, October 3rd, threatening weather abated long enough for a plant rally. This was held at the Receiving Dock with Howard Vollum leading off the talks. Vern Hansen introduced Sed Stewart, Chairman of the United Fund Speakers Bureau, and also closed the fifteen minute get together with information about how the pledges would be deducted from the bonus checks in December.

Tek Talk

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First Thanksgiving Proclamation

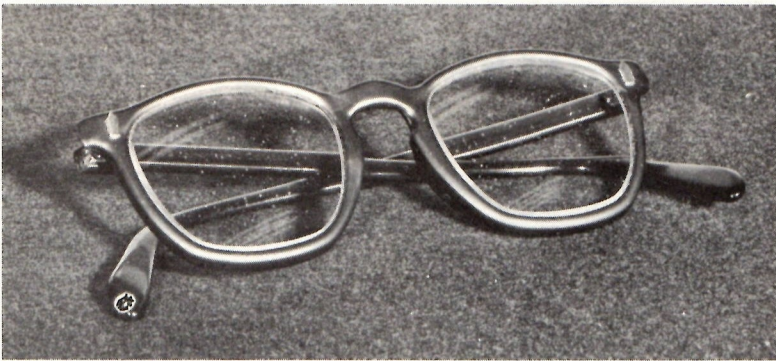
WHEREAS—it is the Duty of all Nations to acknowledge the Providence of Almighty God, to obey his Will, to be grateful for his Benefits and humbly to implore his Protection and Favour: Now therefore I do recommend and assign Thursday, the Twenty Sixth Day of November next to be devoted by the People of these States to the Service of that great and glorious Being, who is the beneficent Author of all the good that was, that is, or that will be...

That we may then unite in most humbly offering our prayers and supplications to the great Lord and Ruler of Nations, and beseech him to pardon our national and other transgressions:—to enable us all, whether in public or private stations, to perform our several and relative duties properly and punctually,... to protect and guide all sovereigns and nations (especially such as have shown kindness unto us) and to bless them with good government, peace and concord:—to promote the knowledge and practice of true religion and virtue, and the increase of science among them and us:—and generally to grant unto all mankind such a degree of temporal prosperity as he alone knows to be best.

Given under my hand at the city of New York, the third day of October in the year of our Lord one thousand, seven hundred and eighty-nine.

(Signed) George Washington.

Here's Mud In Your Eye!



This pair of safety glasses was turned in for a new pair by a 'smart operator'. It may not be evident in the photo, but the glass is pitted by many spot-welding spatters. If you feel you are in an eye-hazardous area that has not been so designated—check with your Supervisor—we can furnish new Safety glasses but not new eyes.

The Eye—the most scientific instrument you use. You guard your special tools with jealous attention yet an irreplaceable set of the finest receptors for intelligence to be transmitted to the human brain is left unguarded. Open in a field of dust particles, the human eyes do their best to stay clear of contamination and infection. Subjected to a greater hazard than normal they are prey to the flying chips of grinding wheels, hot solder, wire clippings, sawdust from metal, wood and plastic, spatters of corrosive chemicals, and a score of other everyday working conditions here at Tektronix.

Many of those working at jobs in areas designated as hazardous to eyes do not willfully disregard the safe practices accepted as 'smart' for skilled people. They are 'just too busy' or too engrossed in what they are doing to consider the danger involved. Others may take the dar-

ing attitude that borders on the ridiculous that they've worked at their trade for years and never suffered a serious injury. You only have one life to lose, and only two eyes. It is true that your life is your own. Your eyes are yours too. So working by yourself in your own shop or kitchen at home you may be as reckless as you wish—for only your children, family or friends will learn your poor practices. However, in a working situation with many people your disregard for eye safety is contagious. Less experienced workers, as well as other valuable people like yourself, follow the leader.

Don't plant the seed of poor safety practices in your working group. If you work in an eye hazardous area put your most valuable instruments under glass (Safety Armor-Plate) and rest assured that you have done your best to be a 'smart operator'.

10 YEARS WITHIN THESE WALLS



SAM GETS TEN YEARS

by Jim Strickland

Well, not really, but Sam, better known as John Larson, has been with Tektronix ten years this month. There is much about Tek we could learn from John, but this story was to be a surprise....so, we couldn't talk to him.

Located snugly amid partially completed chassis for new scopes under development, John shares a room in the new section of the Engineering building with Henry Fritzler, Clair Kidd, and Irv Sherbeck. His suave soldering can turn out a scope for a show faster than anyone else in the business, and if you need a special instrument, it will look like we have been making them as long as the 511.

It is a toss-up between Lee Penson and John as to which is the second or third employee; they both arrived the same day, and John has been with Tek through it all, ever since.

John's first job was in assembly. He moved to final inspection of the 511 in 1948, working beside John Taylor. Next he became a group leader for the assembly of the 514. Then, he performed what today would be the pre-production of the 315, and moved to Engineering as a technician on 8/12/53. Of course, there were many other accomplishments along the way, but we are trying to tell the story the modest way John himself would.

Those of us who know John recognize him as a stable person capable of sound judgment, but one whose sense of humor is keen, and one who displays a real knack for telling the tallest story.

John's hobbies involve that RARE DX foreign radio station during the wee hours, with contact confirmed in many countries. Some of these are considered in amateur circles as really rare. His interests also include being a member of the executive council for the Boy Scouts in the Beaverton area.

Congratulations John, for being with us, and your many friends hope the three week vacations you have now earned will continue for many more years.



TRUSTEE MARKS TEN

Lee Penson, who ties John Larson to the day, also started his Tek career ten years ago this month.

Lee began his tour of duty working in production in the shop. He operated the turret lathes and drill presses as well as doing a multitude of other odd jobs necessary in those days to facilitate the assembly of our early models.

As Tek grew, and we moved to our present location, Lee was one of the hard working employees who helped keep turret lathe production in the shop going at full capacity.

Gradually, Lee's efforts turned to increasing demand for special tool-

ing, jigs, and fixtures. After the organization of the so-called die shop, Lee began working full time in tooling. Later, when the die shop and model shop were combined in the newly completed Engineering building, Lee made another move to the group he has been with ever since. At present, he is supervisor of the Production Tooling swing shift group.

A native Oregonian, Lee spent his youth in Eastern Oregon in the Redmond area. After serving a hitch in the Navy in World War II, he married Eddie, and came to Portland. They have three wonderful children; Christie 8, Alan 5, and Bonnie 2 years old.

The Pensons have recently moved to their home on S. W. Walker Road, and are presently occupied with picking acres of filberts.

Lee and his family enjoy outings for hunting and fishing. Fly fishing preferred.

Over And Beyond



Rita Troy

Chuck Nolan, Engineering, was out on a field performance tour with our new Type 507 recently and brought back with him some Tektronixiana to add to the many fine experiences people have had working with others in the Tek family.

It seems that Chuck, with Field Engineer Keith Williams from the Cleveland Office were badly in need of a tube that had been detoured enroute to them in Sharon, Pennsylvania. They called the Cleveland Office and asked Rita Troy to track down the missing tube.

Some time later --- the information they wanted came through; the tube was on a plane on its way to them. Time—1:30 a.m., Location Cleveland Airport, "I'm bushed.", signed Rita.

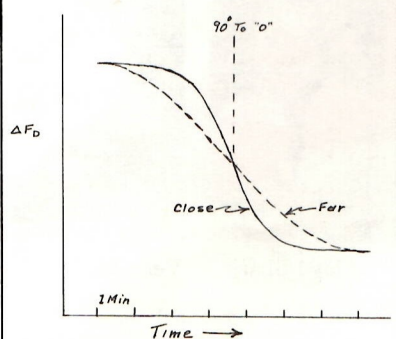


Fig. 3.

Figure 3 is a rough graph indicating two possibilities of Doppler shift during the time the measurements were made and shows that for a 'close run' the Doppler shift will appear in a short interval of time, while for a 'distant run' the Doppler shift will take considerably longer. You will note the total shift to be the same for both 'runs' inasmuch as the velocity is the same for each, the only difference being the range from the antenna.

Two or three books have been written on Radar Doppler effects, and any modern physics text will give

Listening To Sputnik

By Jim Strickland

The calculations possible from listening to Sputnik can be valuable as well as fun.

You have experienced the apparent change in frequency of a train whistle as the train passes you at the station. This change in "received" frequency is known as Doppler effect wherein the radiated frequency appears to change due to motion of the radiating object. A satellite will do the same thing only at an RF frequency.

Calculations show us that for a signal of 20 mc and a velocity of approximately 17,500 miles per hour, the total Doppler change in received frequency will be in the order of 900 cycles, and for a radiated frequency of 40 mc the total Doppler change in received frequency will be in the order of 1800 cycles.

Thus, through the use of a temperature compensated crystal controlled reference frequency coupled to the converter antenna when receiving the satellite signal, an accurate measurement of the Doppler can be made. Also, it is not necessary to be elaborate with equipment. We did it with: 1. Receiver, 2. Tape recorder, 3. WWV time signals put on the tape each five minutes, and 4. A calibrated musical instrument (in this case an electronic organ) for measurement of the audio doppler shift from the tape.

With the above set-up one can accurately calculate the range from the antenna, and the velocity of the satellite, plus the exact time its position was 90° to the antenna.

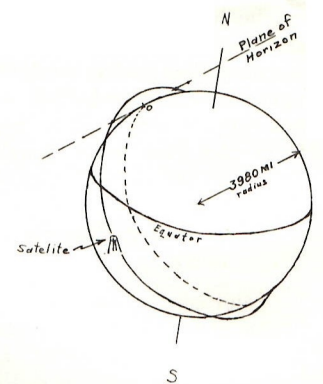


Fig. 1.

Figure 1 shows a world diagram with Sputnik's orbit shown. Point 'O' is the observer when the satellite passes directly overhead.

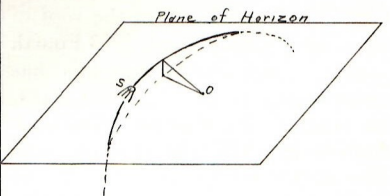


Fig. 2.

Figure 2 is a plane drawing showing the path above the horizon when the satellite is not directly overhead, and indicating the approximate path that the 40 mc signal can be copied.

the formulas you will need to use. It is with this reference we excuse ourselves for not including them here as the space required is not available. It is also felt that if you are seriously interested in making such measurements on future satellites, the above discussion will be the food for thought to get you started on your own.

SPUTNIK MUTTNIK SALOON-NIK

The Tek entourage that attended the US Chamber of Commerce Conference on Better Business Relations at Gearhart on October 7th, including such well known personalities as Ash Ashenbrenner, John Taylor, Dick Rhiger, Bill Polits, Will Marsh and Howard Vollum were hard pressed that evening to view the TV program featuring our much featured engineers, Cliff Moulton and Dusty Rhodes.

Bent on accomplishing their objective the group did not allow the shifting sands, the pounding surf of the moral scruples of 'Deacon' Marsh to sway them from the task. Mission was completed, at apparently the only TV at a bar in Seaside and there they sat them down to hear of Sputnik and Beep Beep. Note: It is rumored that they were offered the specialty of the house, the Sputnik Cocktail. A jigger of Vodka, sour grapes and a dash of bitters.

WHAT IS A ROCKHOUND?



Tools of the trade. Keys to rock-bound wonders.

Perhaps we should say, "Why is a rockhound?" Many of us in the Tek Geology Club have had some people shake their heads sympathetically and walk away when they learn we are rockhounds. Yes, they wonder just what it is that makes the rockhound get up at four o'clock in the morning, load his pick and shovel and packsack in the car and take off for the mountains or the desert. What makes him wham his pick in the hard ground, shovel out a ton or so of rock, sort through them, pack a hundred pounds of them a mile out to the car and haul them all home?

Sounds pretty silly, doesn't it? A rock is a rock. The parking lot is covered with 'em! But not with the kinds the rockhound brings home. These are the like of which you have never seen before. Brilliant colors, soft colors, delicate traceries in soft pinks, blues, greens and lavender. Bold splashes of bright red with intricate white lines running through. Bright yellow mixed with black.

Agate and Jasper together in an unbelievable plum-like mixture. Iris age, which when cut and polished, refracts the light into a dazzling display of rainbow colors. Tigereye, with a golden sheen which races across the surface as you move it in the sunlight. Glittering crystal formations, some like glass, some dazzling green, intense blue or delicate pink. These are only a few and they answer, in part, our question.

Now, how does one get bit by the bug? You might be at the beach, for example, picking up a few agates (you have always been vaguely interested in them) and you fall in with a person who seems to know what he is talking about. Next thing you know he is telling you about places to go and you are amazed to discover that there are all kinds of localities where one may find agate (before this you thought the only place agates could be found was on the beach) and besides agate there is jasper, opal, morrisonite, plume agate, polka-dot agate, picture agate, jade, rhodonite and whole host of things you never knew existed.

You get interested and go out there one Sunday, dig around a little,

Bulletin Board Notes

A new schedule for posting Bulletin Boards has been started in order to satisfy the numerous requests for a longer period of time on the board. Icel Schroeder, in the Personnel Office, takes care of the Bulletin Boards and posts all notices requested by employees that have plant-wide interest.

Bulletin Boards will be posted every Tuesday. Information for the posting should be given to Icel no later than Monday afternoon so that it can be included on the posting for the remainder of the week. Prior notices will be removed every Tuesday unless it is considered to be of special interest for a longer period of time.

Material for posting on the Bulletin Board should be channeled through the Personnel Office so that Icel can plan the space available for Job Postings, Profit Share, and other important announcements that should be readily seen by all who scan the board. Job Postings and timely announcements that cannot wait for the weekly posting on Tuesday will of course be taken care of as required.



find a few pretty pieces and the first thing you know, you're a rockhound.

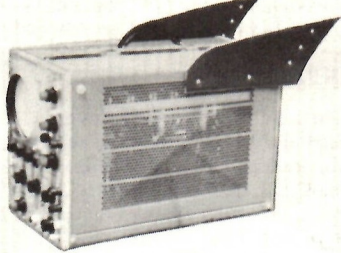
It's as simple as that. But it can become quite complicated if you want it to. If you are curious about the origin of these pretties you can buy a book and learn all you can about it and in no time you can become a regular amateur geologist or mineralogist. However, most folks are happy to bring home the rocks they find and cut them, if they have the equipment, or have someone else cut and polish them so they can be made into beautiful jewelry pieces.

A lone rockhound finds it rather hard to learn of new places in which to hunt so he joins a club. Here are kinds of folks who know all kinds of places and they go out together as a club or in twos or threes. Now the beginner is in clover. His collection begins to grow and he meets people with rock saws or he buys his own and cuts the rocks open and is real pleased to see what is inside.

There are just about as many types of rockhounds as there are rocks. In the Tek Geology Club you will find those who specialize in agate and jasper, some who like crystal formations best, uranium hunters, gold prospectors, lovers of petrified or opalized wood, gem faceters, or those who collect just for the fun of it. But all are united by the common bond of discovery. There is a certain element of expectation and suspense when you go on a rock trip. You never know when you might make a rich strike, be it gold, or precious gems, thorium or valuable cutting material. You know from reading or hearing that it is possible so you are always ready to go.

Then there is the pleasure of being with nature, breathing the crisp desert air, hiking in the cool woods, scaring up a deer, catching fish between diggings or just plain enjoying the wide open spaces.

There are a lot of things to be said for the rockhound but perhaps one of his greatest rewards is in the cutting of a rock, revealing for the first time the infinite beauty that nature has imprisoned for countless millions of years.



(This in an advertisement.)

BALTIMORE SPECIAL

Kerm Fleck Flips Fins

(Tek Talk assumes no responsibility for misrepresentations. We doubt you will find this model listed in catalogs.)

Does your 1957 Oscilloscope have that square, boxy look?

Does it have a very definite style that is clean, crisp and distinctive, but lacks that extra something to drive you forward to new engineering progress?

Perhaps we can solve your problem!! Your Baltimore Field Office has designed, tested and will install the modification pictured above, —The distinctive, swept-wing Oscilloscope! This modification will automatically give you zest for accomplishments unlimited! And at a price you can afford to install— Ask for Tek No. 040-000H! The price is 15 cents (for the cardboard fins) and installation is the regular fee for labor.

INSTALL IT TODAY!! —and watch your Engineers "Go, Man, Go."



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Add Another Pleased User

"Anyone who insists on saying that business is business, that it is heartless and has no soul is either a confirmed skeptic or has yet not dealt with the Chicago branch of Tektronix." So said Charles S. Morris, of the Department of Physics at Manchester College, North Manchester, Indiana.

The occasion for this forthright statement was an experience this gentleman had on a hot August afternoon when he brought an ailing Type 511AD Oscilloscope to the attention of the Chicago Field Office personnel. As related by Mr. Morris, Vivian Cook graciously assumed a personal interest in giving the service requested and won the appreciation of Mrs. Morris by inviting her in out of the August sun while the men folk discussed the diagnosis of the 511AD.

Oz Svehaug, Russ Fillinger, and Bob Seaborg in turn took time to offer their friendly assistance on the customer's problem to the extent that he felt when the bill was presented it did not nearly represent the cost of services which he received.

Note: Tek Talk is grateful to Inge Kremeyer for this field information, which we may not have received at all if it were not as Mr. Morris recalled, "When I was relating this to Mrs. Morris she said I ought to also write you folks a thank-you note. On thinking it over, I decided she was right!"

Shop Bids Goodbye To Tomorrow



Reorganization of sheet metal production at Morrow Radio Manufacturing Company in Salem, Oreg., manufacturers of high-grade Ham mobile radio equipment, was begun in May with the aid of Tektronix help, and was completed in the latter part of September.

The program, coordinated by Erwin "Ash" Ashenbrenner and Clyde Fietush, was carried out by Tim Kirtley, Ed Stowe, Don Turk, Don Poindexter, Gordon Ronglien, Winfield Thorne, Lee Miller and Stan Vert, all of Tektronix.

According to Clyde Fietush, our people had wonderful cooperation from the Morrow group and everyone at the Salem plant...about twenty-five workers...treated the Tek in a top manner.

On the twenty-seventh of Sept. the employees of Morrow Radio held a going away party for Tek force. A varied and sumptuous pot luck dinner was served and a beautiful and delicious cake, about two by three feet, was included to high-light the dinner.

In presenting the cake which was inscribed, "On account of you're is Good Kids", Herb Harold, of Morrow's test department, made a speech

in which, on behalf of Morrow Radio, he expressed appreciation for the efforts of the Tek workers who assisted in the sheet metal production reorganization. Regret was expressed that all the Tek people who aided Morrow could not be present at the dinner as some had already been called back to their home plant.

Pictures taken by Clyde Fietush gave visual proof of the success of the occasion, and in a speech of appreciation for the dinner on behalf of himself and the Tek workers at Salem, Clyde wished Morrow Radio a prosperous future.

Possibly it might be said that, figuratively and literally, the two groups, working together "took the cake" at the Salem plant.

A YIDDISH CONTRIBUTION by Oscar Olson

F U N E M ?
S V F M
F U N E X ?
S V F X
O K , L F M N X .

(Ed. Note: Icel tried this with her Texas drawl and got nowhere A... tall.)

* * *

Report From Instrument Service



Teks Talk To Two

John Wallen and Bill Bessey report that since its beginning a few months ago sixty Tekes have used the counseling program. The talks have extended from one to six sessions depending on an individual's wishes. Most of the problems discussed have been of a personal nature not directly concerned with the job. In some instances they have suggested specialized agencies or persons in the community that may be utilized to good advantage.

Bill tells us that some of the counseling he's done lately has been concerned with educational and vocational opportunities. Tekes have asked questions about schools, evening courses, kinds of job training and the G. I. benefits. This kind of counseling, as well as personal, can be arranged by making an appointment through Marilyn (Ext. 301) or by calling Bill directly on Ext. 371, if you have a question. No records or test results obtained in the course of these talks are added to the personnel file unless the person requests it.

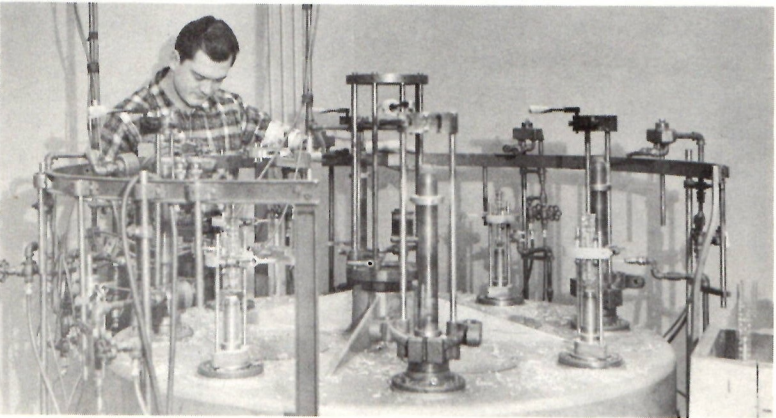
On October 20th, 1957, Tektronix, Inc. once again stole the show at the open house which was held by the Reynolds Metals Company. Our equipment was demonstrated by Vic Fricke of the Instrument Service Department. Vic had a type 535 and a type 310 scope at his booth and people gathered around him like a swarm of bees. A majority of the questions asked of Vic were aimed at the signals from the Russian satellite, Sputnik, which were displayed on our scopes in the photographs published by the Oregonian and Journal newspapers. Many people were very disappointed in the fact that Vic couldn't just flip a switch and immediately pick up the much discussed signals.

Our equipment was at the open house to show one of the many ways in which aluminum is put to use after it leaves the Reynolds Metals Company.

The sole producer of aluminum in Oregon, Reynolds Metals Company began operations at their plant in Troutdale, Oregon in 1946. Each year they produce approximately 180,000,000 lbs. of primary aluminum. Also they are one of Bonneville Power Company's largest consumers, since they consume approximately one third of Bonneville's total yearly output. Most of this power is consumed in the electric reduction cell's or "melting pots" used in the manufacture of aluminum. You can easily see how so much power is used when each melting pot operates on a current in excess of 60,000 amperes, and there are a total of 560 melting pots in operation.

So the next time you see a piece of aluminum here at Tektronix, just stop for a moment and think of the effort which goes into its making.

HI-FIREDELITY CRT LABEL



Hi-Fi fans who have been anxious to see a "weighted turntable" in action can have that opportunity by watching our glass sealing machine in operation. This vertical sealer, manufactured by the Eisler Engineering Co. of Newark, N. J. seals the electron gun into the glass neck tubing of the CRT. The guns and tubing are held in a vertical position during the sealing process giving the machine its name.

It stands about 5 feet high, is about 6 feet in diameter and weighs about 2500 lbs. It is a mill type set-up, i. e.; the four different stations rotate on the "turntable" passing by one operator who is able to care for them all. In this case, the four stages move from the pre-heating of the glass tubing, through the sealing of the

gun into the tubing, to the annealing of the sealed gun. The process is started one gun at a time, and the guns are removed the same way. The automatic machine is capable of sealing 45-50 stem per hour. Previously, the maximum rate was 10 per hour.

Bela Kirschberger, handles the maintenance and production work associated with this new machine, since this is quite similar to the work he did in Hungary.

As for you Hi-Fi enthusiasts with your 72-inch L. P. records, there is no "wow" with a 500# turntable. Of course, if you like your music real "cool," stay away from the stations on this turntable where the glass seals off at 950°C. We call this Hi-Firedelity.

RICE AND OLD SHOES

Helen Moser to Lloyd Stanton
Lola Bousquet to George Lee
Barbara Landers to Harold W. Weigand
Betty Jean Jones to Lee Alward

Sept. 20, 1957
Oct. 27, 1957
Oct. 26, 1957
Oct. 19, 1957

INFANTASY

Erma and Richard Wolever
Barbara and Wayne Halverson
Mildred and Bob Marchino
Joan and Dick Millington
Rose and Burt Avery
Joan and Paul Buchco
Lois and Ted Woodhouse
Terry and Byron Flint
Edna and Earl Wantland

Son 10-17-57
Son 10-1-57
Daughter 10-5-57
Son 10-1-57
Daughter 10-19-57
Daughter 10-20-57
Son 10-22-57
Son 10-24-57
Son 10-27-57

FINAL FOLLIES

A housewarming and wedding shower was held for Don and Cecilia Pratt. It was a surprise event at their home at 122nd and Holgate. Twenty-three people from the Final Dept. attended. Don, lucky in games as well as in love won a back scratcher at the Bingo game. A pot-luck lunch was served along with the liquid refreshments.

DELAYED LINES

Our deepest sympathy is extended to Lorena Fox on the death of her father and to Gloria Coguille on the loss of her mother.



Rose Avery

Burt Avery has an all girl glee club...his wife presented him with another daughter.

Shirley Farley, Mary Kingsley, Jack DeWald are members of the 4 p.m. Scopette Bowling team. This is a women's International Sanctioned League sponsored by Larry's Drive-In at West Union.

CAPACITOR CAPERS

The opening of deer season saw Miller Duris and Donna Hand each getting their buck for the year. Art Peterson and Deana McFerran got their venison a little later. A versatile hunter, Art also got his share of ducks and geese.

Dee Tompkin Lees, recently married, has left us for her new home in Moses Lake, Wash. Dee, a Tek of over two years, will be missed by all.

Our co-worker Lloyd Morris is still in the hospital. He is well known and quite at home at Portland Sanitarium where he spent nine months at one time. We miss very much his cheerful smile and performing wheel chair.

Your Zone No. On A Portland Address Is A Must

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

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

Form 3547 requested

SCIMAREC



Ceramics Department is really in the pink with a shower for Bev Furchner on September 9. Expecting papa, Chic, came too; and then there was born to Mr. and Mrs. DeWayne Halverson on October 1, a boy, Mark. Mother of the boy is our own Barbara Ruhlin. Rose Peterson wasn't to be outdone. She got herself a brand new granddaughter, Paula, (born to son Westbrook October 21,) while vacationing with her sister in California. This is better than the earthquakes altho' she's just as "shook up."

Monttie Wallis traded in her ceramics for time at Portland U studying to be a teacher.

A-hunting they did go...and Esther Johnson, Betty Peterson, Charlotte Peterson, Helen Ross, Peggy Jones all had a happy time...don't know if they brought any game back, but hunting trips are for relaxing anyway.

Donna (Rohrer) Richardson pleasantly surprised us with a visit, bringing her husband who's on a 2-week leave from the airforce base in Spokane.

U W days



Barbara "Bobbie" Cummins began Army life at Fort McClellan, Alabama after leaving Tektronix Aug. 15th.

Bobbie was in Unit Wiring working most recently in Allen Hayes group. She finished basic training October 30th and will attend cryptography school at Fort Gordon, Georgia. In her company of over one hundred girls Bobbie was fourth highest in her class. Bobbie and Evelyn Meyer of Unit Wiring will meet in Indiana to spend Christmas with Evelyn's folks. We will expect Bobbie to visit Tektronix soon after as she is coming West to spend the remaining days of her leave with her family.

Phoebe X Sez:

SAVE TIME...
DIAL 9



NOW DON'T FORGET, DIAL 'NINE'—ON OUTSIDE CALLS EVERY TIME.

STORK-Replaced



Jan Jones, recently transferred from Coils to Unit Wiring, was given a surprise baby shower Oct. 25th. Among the many nice gifts and cards was this unusual one called "Sputnik", made by Gladys Rattley of Coils.

SCREW CREWS NEWS

No Luck! No Buck!

Hunting was poor for Vera and Marvin Collins, and Vera had promised to get a 'Buck' one way or the other. Even in the Indian Reservation she came out empty-handed.

Barbara Landers left our department last month to be married to H. W. 'Bud' Weigand of Longview, Wn. They were wed in the First Christian Church at 8 o'clock Oct. 26th. We will all miss Barbara.

KIT PREPPER

Mavis Haller and Salme Soot are both on sick leave—we wish you both a speedy recovery and hope you will be back soon.

Erma Wolever and Joyce Ness were honored guests at a pot luck prior to starting a stork leave—Erma and Dick Wolever have a baby boy, Edward Alvin born October 17. As we go to press, we are waiting to hear from Joyce.

Rose Archer brought back the venison during archery season. She and husband, Ed, spent several week ends hunting in the coast range. Any luck Ed? Marietta Kilgore and family spent a week at Brothers deer hunting. They got a deer but lost a tooth. Irene Wing went looking for deer but found poison oak.

The last two months we have enjoyed having recruits from all departments to help us make our quotas on time. We have enjoyed each and everyone of you helpful people. It is real pleasant to walk through the plant and hear a cheery "hello" or "good morning" from our friends who were just acquaintances before working in Kit Prep. Welcome back—just any old time, friends.

Marie Jungels became a full time Kit Prepper after spending the summer with us—glad to have you!

PLASTICATS

Norma Christianson has been in the hospital trying to grow two inches taller. At least, we think that's the reason she has been in traction. Elsie Gilbert had a novel idea for entertaining anyone ill: she started a chain letter to Norma and had everyone in the dept. write a note. The results were quite varied, ranging from the sweet to the hilarious. Norma got quite a kick out of it.

We're all awaiting the arrival of Cecilia Raun, who spent the last two weeks in Alaska. Questions will be flying thick and fast.

Aloha Jernigan, Bernice Lucas, and Ella Beaver are having a fling at unit wiring, Lila Baker at Panelcraft and Bob Marchino at the warehouse. It will be like old home week if and when they all return.

Bob White was pretty proud of his bowling record, but since going deer and pheasant hunting he's been very quiet. A little elusive this year Bob???

Jerry Baldwin's oldest boy injured his arm pretty badly when his car was struck by another. He was lucky enough to have to spend just one night in the hospital.

OUT OF STOCK

Lelia Krahmer is talking of the work she and her family are doing prior to moving into a larger home. When remodeling is complete, the living room will be 26½ ft. long. This seems to us an ideal situation for tennis enthusiasts during the winter months.

The stockroom personnel was reduced by the transfer of Boyd Lewis and Mary Moschel. Mary is now working in the Accounting department office and Boyd is in their data processing operation. We wish them both lots of luck in their new jobs.

During the working days of each week, we of the Stock department are convinced of our superior knowledge of football in general. On every hand one hears confident predictions as regards to the outcome of clashes between opposing schools. Alas, comes Saturday with her trail of disillusionment and we spend Sunday wondering how these teams could ever have come up with such wrong scores. Monday, of course is another day.

We welcome to the Stock department May Hollowell, transferred from the Shop and now in our pre-pack operation.