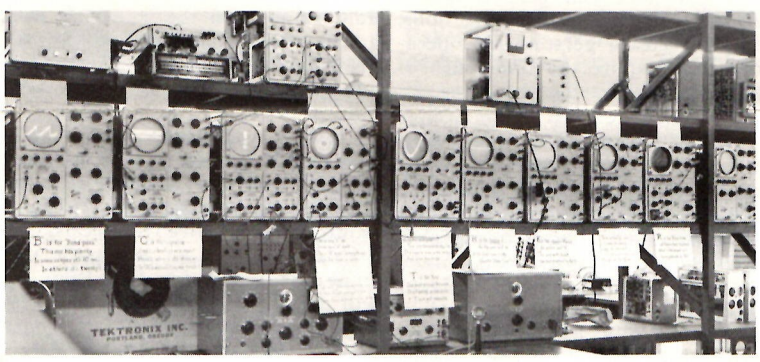
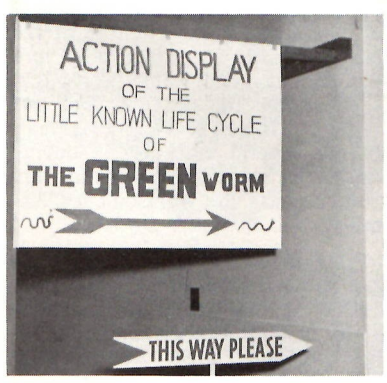
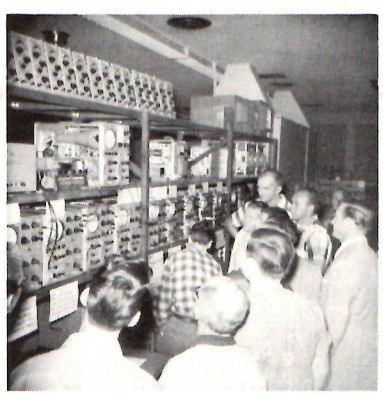
TEK TALK

Vol. 5 — Number 10 | Employee's Publication of Tektronix, Inc. | October, 1958

A serpentine of Tek family wends its way through the Beaverton Plant on Family Night.







Test's display of Plug-Ins and Scopes was a real crowd gatherer.

And this is Kit Prep. Each department had bench top displays of work samples that were explained by employees to their family or guests. Supervisors and other volunteers were in most areas to help employees with explanations of unfamiliar functions.

Rack-mounted instruments, waveform generators and indicators were demonstrated to visitors in the Test Department.

Visitors, Paul and Naomi Magnusson joined old friends on Family nite. Paul is on the staff of our office in Palto Alto.

FAMILY NIGHT ENJOYED... THOUSANDS VISIT PLANT

On Wednesday night, Oct. 1, the Beaverton Plant appeared to be in full operation with parking lot and driveways filled with automobiles and a happy horde of mamas, papas and children filling plant areas that only a few hours previous were humming with the everyday activity that is our way of making a living.

Family Night was the culmination of much planning on the part of all departments at Tektronix. Group Representatives with the cooperation of Supervisors and Department Heads arranged many interesting displays and demonstrated the magic of the oscilloscope to the amazement and wonderment of family members who at last knew what an oscilloscope looked like. Departments in the Sunset Plant, Panelcraft and Printing sent displays of their work for display in the center corridor.

Soon after the starting hour of 7:00 P.M. the expected crowd of over 5,000 were on hand to start their casual tour of the Beaverton Plant. With little else than a few guiding arrows the throng moved through even congested areas with little delay. The many displays were inspected with interest and most employees took this opportunity to show their family exactly where they worked and the tools they use.

There was no doubt that the many lucious cakes (nearly 200 of them) and the coffee and coke were awaited with as much interest by the children as the wires, chassis, and sheet metal. When the tables were cleared in the lunchroom at 10:30, only fragments of the full supply of cakes were left. (Short work was made of the remainder at lunchtime and coffee breaks the next day.) A number of cakes bearing messages of appreciation for the company we work for and its owners were displayed as a centerpiece in the lunchroom. Flowers brought by individuals were added to the baskets ordered through the Employee's Gift Fund for the occasion.

The Test Department had one of the most elaborate and spectacular displays accomplished with a bank of "hot" oscilloscopes in which patterns of every description were traced out by the "little green worm". Field Engineering also demonstrated an oscilloscope for the throng in the center corridor. Children were fascinated to "see their voice" on the scope screen. A more technical demonstration showed how time difference can be measured between the pick up of sound from two different sources. The massive presses, punching operations, etching, painting, silk screen, plastics, tool and die displays in the Shop area held the interest of old and young alike.

The overall effort to show our families what working at Tektronix is like, certainly did not fall short of its goal. All reports were proof positive that a good time was had by all.

Mute displays such as sweep chassis, kits, cable patterns, accessories, cabinetizing, finalling, shipping and stock spoke out with a firm voice for the quality of good workmanship.

The sparkling floors, cleanliness of the building generally and many behind the scenes details were the direct effort of Ruby Glasnapp and his crew, Bob Herren, Levi Brekken and the men working with them. Elsie Rohrer and her lunchroom girls with volunteer help of many others who served the refreshments were thanked for their help by Chairman John Byerly of the Group Representatives. Cake donors could receive no more genuine thanks than the whole hearted eating of their donation— not a cake was left unscathed.

Fred Lenczynski, Field Engineering Trainee asks Blanche Cook's daughter Susie to say a few words to be visually portrayed on the oscilloscope screen.

Cabinetizing displayed the final "dress rehearsal" of instruments prior to shipment.

The Etch tank's automatic cycle fascinated them.

FINISHED INSTRUMENTS —impressive to young and old alike.

Dave Hoeffler, Field Engineering Trainee, watches the studied expression on this young man's face as he modulates the trace on the scope with his voice.

The lunchroom was packed continuously with happy 'customers', sampling a variety of cakes and drinking gallons of coffee and coke.

Tek Talk

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TRIBUTE TO TEKTRONIX

from a happy family October 1, 1958

. . . AND MANY HAPPY TAX RETURNS

Let's face facts. If the bulk of your income comes from your Tektronix payroll, there probably is very little you can do to cut your 1958 federal tax bill. But you can try, and the time to give it a go is now—before December 31. If you wait until after the first of the year to decide whether to itemize deductions or take the standard 10 per cent deduction, you run the risk of losing the greatest tax-saving opportunity available to those who earn their living.

When you are forced to take the so-called standard deduction because your deductible expenses are less than 10 per cent of your adjusted gross income, you literally **waste** your actual expense for tax purpose. Don't let this happen to you **every** year. Plan your deductible outlays so that you go over the 10 per cent deduction occasionally. This can be done by pyramiding two years of deductions into one.

For example, assume that you expect to have an adjusted gross income of $6,000 this year, with deductible expenses (interest, taxes, charitable donations, etc.) of obout $500—or $100 less than what you would be entitled to deduct if you took the standard 10 per cent deduction. Not included in your expense estimate, however, is $250 in real estate taxes and $100 in home-loan interest charges which must be paid in early 1959 but which could be paid now.

If you act quickly and pay these expenses before December 31, you can bring your total allowable deductions for 1958 up to $850. By itemizing deductions this year and taking the standard deductions next year—when your actual expenses should be somewhat less because of what you have prepaid—your total deductions for both years will be approximately $1,450. Had you taken the standard 10 per cent deduction in both years, the total would be only $1200. In both cases, your actual deductible expense for the two years only equalled $1,000.

Wage-earners who still have difficulty finding deductions to make itemizing worthwhile might consider carrying the pyramid plan one step further. They can set up a system of "lending" and "borrowing" year-end items that would make it possible for them to throw **three years** of deductible expenses into one.

You can begin your own three-year pyramid by postponing payment on as much 1958 expense as possible and planning to take the standard deduction on this year's tax return. The expenses you have postponed— or "loaned"—will increase your 1959 deductions, and in the final months of 1959 you can "borrow" from 1960 by speeding-up the payment of deductible items.

As a result of your pyramiding, you maximize for 1959 (when you should be able to beat the standard deduction by itemizing), and minimize deductible items for 1958 and 1960 (when you take the standard deduction). The general rule to follow when you are trying to make the most of your actual expenses is: keep outlays as low as possible in the years in which you take the standard deduction and pyramid them as much as possible in the years in which you itemize expenses.

PIUS IN TENTH YEAR

Pius Scherr

A well known Tek, once described as Mr. Fixit, clicked off his tenth year late in Sept. in as unobtrusive a manner as he does most everything. Pius Scherr who for some time unofficially operated in the fashion of a production engineer, fixing and adjusting many a mechanical gadget around the plant is at the present time checking schematic drawings in our manuals against our produced instruments to make sure that circuits as well as voltage and current measurements are technically correct. He has been with the Manuals Department since midsummer, recently transferring from Instrument Service.

Pius is another graduate of the Hawthorne Plant, Class of 1948. His first job was paneling and final assembly of the 511. When Tek moved to the Sunset site he became a group leader in 512 production, working with Jack Gaeth. Sandy Sanford was heading up instrument Service when Pius first started in that area. The department is now headed up by Jack Henderson, with whom Pius worked for sixteen months.

Teks who know Pius best are those working with him and they describe him as a very helpful person; not only helping them with their own jobs but offering assistance on outside projects as well. If a gadget or tool fails to work properly now we call on the aid of the Mechanical Services group of Production Engineering. In 1953 the call was quite often made for Pius, whose mechanical ability was much in demand.

Pius and his family live in a southeast Portland home he remodeled, Besides his natural talent in do-it-yourself homebuilding, Pius' hobbies include, photography, Hi-Fi, boating and water skiing.

When Pius came to Tektronix thirty people comprised the company that occupied part of the second floor at 712 S.E. Hawthorne Blvd. They were shipping about 60 Type 511 scopes per month. Tektronix is now a family of close to 1800, business has grown and necessary supporting services have expanded. People like Pius have helped to make this possible.

BOSTON QUIRK

Scotty Pyle reports that the ways of Boston People are sometimes strange.

"On my trip up here I find that these girls like to turn out a quality letter. The quality is so high in fact that they use 100% rag. This particular rag turned out to be the hand towel.

You might let Ken Walling know that requests for Boston office letterheads will be sharply reduced. The local laundry can supply their needs."

The girl at the typewriter is Ann Elliot, a transplanted flower from the city of brotherly love-Philadelphia. Ann has been in Boston since the middle of July. Her female aide-de-camp is Carol Kassabian who assists Ann in keeping the home fires burning for Dick Phillips and new arrival, John Adams. Lee Heaton, another Bostonian, is presently in Portland for a 're-calibration' visit.

Assembly Coordinating Group

THE LINE UP: Jay Chiodo, Don Stradley, Ross Gifford, Don Poindexter, Joe Almand and Wally Blackburn.

One of the many groups located at the Beaverton Plant is the Assembly Coordinating branch of Production Engineering. The primary function of this group is to devise faster and better ways of assembling our product. This may be done by improving present methods and plant layout, or by initiating new procedures, such as use of machines, where this is feasible. The group aim is to achieve greater production output from any assembly group without adding personnel. The direct result of successful improvements would be a rise in the profit share.

One might think that complete automation would be the end goal of such a group, but anyone observing the complicated wiring being done at Tektronix would quickly erase such a conculsion from his mind. However, there are many ways machines can ease tiresome, boring, and time consuming jobs, and can release persons for operations that require the fine touch of craftsmanship.

The leader of this group of five is Wally Blackburn, a mechanical engineering grad from Oregon State. Wally not only supervises the group, but has the responsibility of coordinating all special and purchased hand tools for Production, and works with Production's Mechanical Design group on new tooling projects. Wally has held various engineering and supervisory jobs since receiving his sheepskin in 1947. He devotes some of his weekends to the Army Engineers as a 1st Lieutenant.

The members of his crew are Don Poindexter, Jay Chiodo, Joe Almand, and Don Stradley. Don Poindexter has worked in the Tek Shop for several years; most recently on jigs and fixtures for Assembly use, and he is the expert in the group on tools and tool application.

Jay Chiodo has an extensive background in shop management, machine tools and work methods. Before joining the Tek Assembly Staff in April, 1957, he was Shop Foreman at Portland Screw Machine company. Jay is a master machinist, and has the ingenuity to create a machine from the ground up. Jay flew and instructed flying in World War II, and later he was an instructor at Western Skyways, Troutdale, for two years. At that time he held a CAA Flight Examiner's rating.

Don Stradley is another airman. He specialized in radar mechanics during his 'hitch', and later studied Electrical Engineering at M.I.T. for two years. Don has specialized in jigs and fixtures used in the assembly areas, and he is adept at analyzing work methods.

Joe Almand graduated from U of O where he studied architecture for three years, but received his BS in general social science. He spent his tour of duty in the Air Force as an armament systems officer in the Far East. Joe has worked in Final Assembly and Customer Service. Recently he has had much to do with the layout of the Assemblies in the Beaverton Plant.

Ross Gifford is the latest addition to the Group. Ross has had experience as a machinist and has worked with automatic screw machines. Lately he was a lead man in Shop. Ross will be working on Drawings of Jigs and fixtures for Assembly.

In the Assembly sections there are samples of this group's work. Many of the girls in Unit Wiring, Accessories, and Mechanical Assembly are using various jigs to hold the work. This frees both hands to hold solder and the soldering iron, and is easier than using a knee, or growing a third hand. Kit Prep is using special cutters, rollers, and holders for speeding the preparation of resistors and capacitors. Cables uses the "doghouse". This is a rack for golf tubes that hold pre-cut wire in order to eliminate the tiresome hand-pulling of wire from reels. The resistor cutter is an automatic machine developed for Kit Prep. It will cut at the rate of 30,000 pieces a day, and is adjustable as to length of cut. An automatic screw driver was purchased for use in Mechanical Assembly. This machine drives self-tap screws mounting tube sockets and capacitors into a chassis. It eliminates the old bolt and nut method. Visitors to Wire Prep may observe several machines in operation which were introduced by this group to ease the workload for Assembly.

Plant layout, another function of this group, concerns the smooth production flow from one assembly group to another. Layout and design are interrelated. For example Unit Wiring required stock aisles separated from work areas that would still allow for an interchange of raw and finished parts. Feed-thru shelving helped to solve this need.

Assembly Coordination is the function of finding new ways to do a better job, but all employees are encouraged to contribute ideas. Many time-saving methods come directly from production people, who are so familiar with the details and problems of their particular jobs that a better way becomes evident to them. Assembly Coordinators are working as a part of PE, a service group, for better ways and means toward a better product, and a larger profit share for all.

1958 United Fund Box Score

U.F. established Quota $15,353

October 28

Total Pledges—1,478

Total Gifts—$18,242

Representing 86% Participation

a great many thanks—

Chairman, John Byerly

Shop's

AUTOMATIC ETCH... A BOON TO PRODUCTIVITY

by Jack Clark in Collaboration with Ash and Marlow Butler.

Shops Automatic Etch

Consider strolling from the main shop into the large Finishing area in which the etching and painting operations are performed. And over to one side you notice what appears to be a complicated mammoth piece of equipment, eleven feet wide and thirty-two feet long.

At first glance it has somewhat the appearance of a large square box, open at the top, and equipped on the side with an impressive assortment of piping ,valves and dials; and over which is resting a massive, tubular-braced metal framework. As you watch, this framework suddenly raises up close to the ceiling on three vertical posts, and exposes an elaborate system of racks and hooks from which are suspended hundreds of aluminum Shop-made parts.

As the framework comes to rest at its elevated position the racks move ahead 30 inches on continuous trolleys, stop—and then the entire assembly settles back down into the "box," which is actually a series of separate tanks. This fascinating action is accompanied by a variety of sounds somewhat between a smooth-running engine room and a disgruntled hippopotamus.

..Just what is this equipment and what is it doing?

This is Tektronix's new automatic etch machine with a capacity, according to Clyde Feitush, up to 800% of the output by the old hand-etch method.

Before going into some of the details of this equipment it is of interest to tell how it came into being.

Conferences between Bob Davis, "Ash" Ashenbrenner and Dick Pooley brought out the acute need for some type of automatic etch equipment. Dick sent out letters to various concerns, requesting estimates on the construction of such machinery. Only two companies in the country manufactured anything comparable to Tektronix' needs, and either of these pieces of equipment would have required extensive and costly modifications to meet our exact needs, over and above their unmodified F.O.B. Eastern prices.

This is the crew that watches over the "monster" as it cycles through the etching operation. From left is Eskel Etling, Wally Couture, Lee Robbins, Lee Miller, Bernie Menard, Joe Fanning and Audrey Critchfield.

After careful though on the matter the conclusion was reached that we could design and build our own equipment much cheaper, at about one half quoted Eastern costs, and at the same time have it meet our exact requirements. Preliminary drawings and estimates indicated a cost less than half the Eastern terms; it later developed that actually savings effected on the project were even greater.

Marlow Butler, a mechanical engineer, who had joined Tektronix in December, 1957, was in charge of the design, construction and installation of this new automatic etch system. Twenty-nine drawings were required and about four months time for the design and completion of the installation. Ken Catto gave Marlow invaluable aid with about one-half of the drafting work, and A. Young and Son, with the best of three bids, built the tanks and did the structural work to Tektronix specifications. The entire equipment is actuated by a specially-designed, custombuilt Vickers Hydraulic System, which provides precise sequence control for the automatic operation.

A Closer Look

At this point a closer look at the installation itself is in order. What at first glance appeared to be a large box is actually a series of seven separate tanks, the rearmost one of semi-circular shape, followed by the seventh tank and then a long drying oven to complete a horseshoe effect. Reference to Figure 1 accompanying this article will clarify the arrangement.

A control panel by the first tank has controls for either one cycle of operation, manual operation or fully automatic operation. In conjunction with full automatic, a cycling timer on the control panel can be set to regulate the number of seconds the parts remain in the tanks.

The Tektronix-developed electronic brain that controls the hydraulic muscles of the monster equipment has its nerve center in this control panel. A wonderfully precise "brain" of myriad relays, solenoids, etcetera.

For parts to be ultimately spotwelded a shorter cycle time of about 15 seconds is used, while for the average run of pieces 50 to 70 seconds cycle time is employed. It should be noted that the etch tanks accommodates four racks, therefore with a cycling time of, say, 50 seconds, each rack of parts would actually get 200 seconds of etching. Each rack will hold up to fifty small parts and average etch production will run about 3,500 parts per hour. Large chassis' run about 300 per hour.

From Start to Finish

Following one given rack of parts through from start to finish, the rack goes into the first tank which contains a high detergent non-foaming cleaning solution for removing any grease and dirt from the parts. This is a two-cycle tank, so the rack is immersed for the set cycling time then is raised up, moved 30 inches along the trolley guide and re-immersed in the same tank for an additional period of the same cycling time; all automatically. of course, by means of hydraulic sequential control.

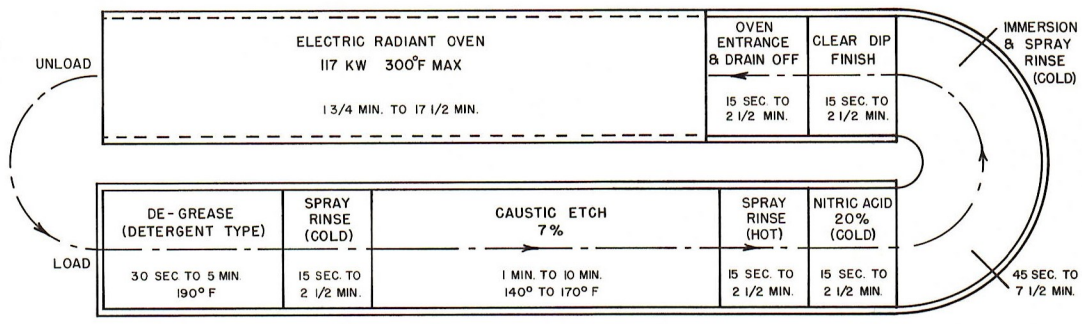
The second tank into which the parts go, in their movement along the trolley guide, is a single-cycle spray rinse tank that washes off the degreasing solution.

The third container is the much longer etch tank, holding a 7% caustic soda solution. This is a four-cycle tank and our rack of parts on, say, 60 second cycling time will actually receive four minutes of etching im-

(con'td—column 4&5)

AUTOMATIC ETCH MACHINE

TOP VIEW



MINIMUM & MAXIMUM TIMES GIVEN.
MACHINE CAN BE SET TO ANY TIME WITHIN THAT RANGE.
PRODUCTION, AVERAGE SMALL PARTS: 3500 PER HOUR.

FIG. 1

(con'td from col. 1)

mersion. According to Lee Miller, in charge of the operations, .004" to .005" of material normally is removed during etching.

The fourth tank rinses off the caustic soda etching solution, while the fifth tank, contains a 20% nitric acid solution, brightens the parts.

The large semi-circular end tank contains water for rinsing off the nitric acid, and the seventh tank, at present, serves as an added rinse tank. This last container, however, will ultimately be used as a tank for clear dip paint finishing.

Our rack of parts now in the last tank is almost ready for the final stage of its trip, the drying oven. The mast raises, indexes the trolleys along another 30 inches and then lowers to set the rack just outside the drying oven. An ingenious slanted rail device moves the rack into the oven on the second following index, then returns out to receive the next rack of parts following. A system of dogs (not the Alaska Husky variety) moves the racks along through the drying oven.

The oven, operating at 300° Fahrenheit, dries off the final rinse, and is a large horizontal rectangular tunnel which measures four feet wide, four feet high and twenty feet long. 117 kilowatts of electric radiant heat is used, and the heaters are arranged in four circuits to allow separate control of the oven's sides, top and bottom. Cycling timers for the heaters are calibrated in the percentage of time on. Thus, with a 25% setting the heaters would be on, for example, 10 seconds, off 30 seconds; or on, say, 15 seconds, off 45 seconds.

Our rack of parts, now having moved up to the front of the oven, is removed by hand, and the pieces are ready for spray lacquering by hand. Eventually it is planned to incorporate the lacquer step in the automatic process.

At the base of each of the three vertical supports of the 3,800-pound trolley-carrying mast are two heavy compression springs. One, of three-inch diamter, is inside the other of four-inch diameter. These springs cushion the final stage of the mast's descent on each cycle.

Three leaf-chains used in raising and lowering the hydraulically controlled mast each have a lift capacity of 28,000 pounds, permitting an ample margin of safety in raising and lowering the 3,800 pound mast.

Since caustic soda will work on aluminum faster at a temperature over 140 degrees, means must be provided to heat the caustic solution from 140 (degrees) to 170 degrees, depending on the type of aluminum being etched. This is accomplished through heating coils supplied with hot water from our central heating plant. The cleaner tank, heated to 190 degrees, is supplied by the same means.

Mere prose and even photographs can hardly do justice to this truly marvelous automatic machine. It must be seen in action to be fully appreciated.

In view of the outstanding nature of the equipment described, and the fact that it has caused flattering interest in industrial circles throughout the country, concluding remarks about its creator, Marlow Butler, seem in order. Incidentally, Marlow reiterates that he was most ably assisted throughout the highly technical project, by the skillful efforts of Ken Catto.

Marlow studied Mechanical Engineering at Oregon State College, and for a year and a half before the war was with Boeing in Seattle. Four years were spent in the service as test pilot and engineering officer in the troop carrier command. After the war Marlow operated his own radio shop for two years. Following this he was with Pacific Car and Foundry in Seattle for a year as mechanical design engineer.

Prior to coming with Tektronix, Marlow served nine years as chief engineer for Holt Equipment Company of Independence, Oregon; the last three years which he served also in the capacity of General Manager.

Marlow is married, has a twelve-year-old daughter, and his hobbies are electronics and woodworking.

A future issue of Tek Talk will present an account of the shop's new paint booth conveyor system.

SWING SHIFT SHAVINGS

Well, we "smartened up" a couple of boys, Dick Myers and Bob Warren, and sent'em back to college and got a new man, John Pricer from Panelcraft and Pramovil Rachl all the way from Chicago via Czechoslovakia — boy we get em' from all over, don't we?—Hope we see Dick and Bob again next summer.

Larry Wells brought his tape recorder to coffee break and we all sent a message to Norway to Ivar Saunes who worked with us this summer. He was in the United States on a scholarship to the University of Oregon. When he left us, he said he was taking home some wonderful memories— he thought America (and Tektronix) were fabulous.

Screw machines are running about the same even though Ross Gifford did get back from his vacation! (He'll kill me!)

Ed McDonnell has really got the Stereo sound bug—he has **3** speakers now. Wonder if he knows that rooms have 4 corners!!

Oh yes—last issue I said Willis O'dell was "Diggers" brother—guess he really is. Last month Willis dug a well 130 feet deep!—just water tho'—no oil.

See you next issue—
Herb Webb

"Acme Robot Agency,
"Gentlemen: I am returning your robot-secretary. I have decided the human — er — touch is indispensable...."

Plastics Engineering Hunts AGATES

Plastic Engineering Group with their families made an overnite trip to Cape Lookout State Park during the last weekend in September on an Agate hunt guided by Vern Bartlett.

The weather was good and the ocean air did wonders for the children, inspiring a few of the parents to perform the ballet on the beach. Considering the fact it was voluntary, completely unrehearsed, and further complicated by the use of a "Frisbee" (ask your children what this is in case you are not familiar), we considered the results quite spectacular to say the least. Wonder if they suffered from any aches next day?

Everyones opinion was that this "get together" was a nice way of getting better acquainted with the families of ones group, and we're hoping the idea will spread.

Several took trailers down but the more "hardy" slept out in tents. Everyone gathered a fair loot of agates and other rock specimens with the children spotting the most valuable stones.

PRODUCTION QC.

Ken Lukens informs us that his daughter, Dana Lukens and Murlan Kaufmann of capacitor engineering are that way about each other. So far, no date has been set.

A TRAVEL TALE

Janet Hoodenpyl, Janet Ruhlin and Joyce Braukman from Ceramics were on the Softball team from Forest Grove that made it all the way to the World Championship Tourney in Bridgeport Connecticutt this year. This is a story of their trip.

We flew to Seattle from Portland on August 28th and after a lay over of about 5 hours were on our way east. The plane was reserved for service men and we were the only girls on the plane with the exception of one Korean girl, the bride of one of the servicemen. The men were on their way home from Korea after a fifteen month tour. We flew as far as Chicago with them, arriving there about 7 A.M. A fog and the hot humid weather combined to make the wait for another plane quite miserable. Switching finally to another airline we finally arrived in New York, safe and sound after a three hour hop from Chicago.

Out of 12 girls, a coach and a sponsor we lost only one little suitcase—Hoodenpyl lost the case she had her softball shoes in. They never found them until the day of our last game, about a half hour after we left the hotel to play.

After arriving in New York we rented two Chev. station wagons. you can imagine 14 people in the two cars. We aren't small girls either. In this manner we journeyed to Bridgeport, where we stayed at Hotel Barnum. The owner of the hotel was the Barnum of circus fame.

Our first game was Sunday, Aug. 30. We played Massachusetts and won 4-0. Played again Monday, both games were at 1:30 P.M. Monday we won 1-0 in nine innings. Tuesday we played at 7:30 P.M.

Tuesday most of the girls had their hair done and went with our coach to visit the Shakespeare Theater in Stratford, Conn. and on to Yale University in New Haven. That night we lost a very good but uneventful game to Fresno, Calif. 4-0 in 16 innings. Our pitcher Louise Mazucca broke a world record by pitching 26 strike outs in one game in a world tourney. By losing this game we went into a losing bracket and had to play Phoenix, Arizona. Losing this game eliminated us from the tourney but we did manage to bring back 6th place out of 19 teams. Our centerfielder, Lucky Carlson, got world all-star and our pitcher, Louise and catcher, Lou Wetzel got honorable mention. It was our first year in a world tournament and we feel very proud of ourselves. We hope to go again next year.

WIRE CLIPPINGS FROM UNIT WIRING

Wedding Bells rang recently for Wynetta Dyer. On Sept. 13, she became Mrs. Sam Vergis.

Versa Dietz became Mrs. Gary Eveland on Sept. 23.

Bill Hardin took a few days off due to a minor operation on his hip.

Mary Ann Lokan returned after a few weeks rest on Doctor's orders.

Barbara Halverson, still recuperating from neck injuries suffered in a recent accident, returned to strain her neck wiring a chassis.

Hazel Tillman, after a few weeks leave, returns to await the stork expected early in February. During Hazel's time off she and her family visited Victoria and Vancover, B.C. Also they traveled south through the Redwoods.

Helen Sherrod, loaned from the Test Department, is learning to wire Plug-in's She plans on returning to the Test Department to test the Plug-in's.

Martha Epperson spent a two week vacation visiting her brother in Burbank, California.

Due to a mix-up—Sue Savely, Aase Rhodes and Helen Snyder weren't welcomed previously in our Tek Talk. So this is officially "Hi, Gals."

THE PLASTIC MAN

In a recent issue of Tek Talk we promised to give you a story of Vern Bartlett who was one of the two Teks submitting an original masterpiece to the Wescon show held in Los Angeles in August. His was the plastic creation called "Ascent to Oblivion" which we pictured in our last publication.

Vern started working here at Tektronix, in 1951 in the Etch Department. After spending 1½ years in this department, Vern transferred into what was then the beginning of our present Shop Plastic Department. The group consisted of himself and Howard Daniel who spent all their time making seven plastic parts—5 knobs and 2 probe parts—(the body and nose). He stayed with the Shop Plastic department to see it grow from the original two employees to about 20 within the next two years.

Space became very scarce, leaving little room for Vern to work. Hence, when an opening became available in Mechanical Design Vern transferred, joining Jim Boyle, and George Rumpakis in the Plastic Development Group. Since joining the Group, Vern's job has been that of Plastic Fabricator which consists of filling the many and varied job requests from all departments within the plant. This work entails more than meets the eye. It consists of mechanical knowledge along with some imagination and designing abilities working with all types of fabricating materials.

In the past 5½ years Vern has become an enthusiastic rock hound with time for others who come to him for advice and encouragement. He is an ardent member of the present Tektronix Employees Geology club. Prior to this hobby his interests centered around puppeteering with Vern carving the puppet heads himself, with the assistance of his ever-loving wife who makes the clothes for the puppets. Perhaps some of you will recall with delight the Puppet show put on by Vern one Christmas holiday here at the Sunset Plant.

Because Vern enjoys his hobbies so much he was the inspiration behind the one and only Hobby Show put on at Tektronix in 1952. It was a tremendous success and perhaps we can look forward to another one in the future, humm?

CABLEGRAMS

In September we welcomed to our group four new girls and one transfer. Maxine McCabe transfered from Unit Wiring and the new ones are: Winifred Winslow, Irene Groves, Joan Davis, and Alice Stewart.

Alice will be sure to remember the date Sept. 12. That is the day she started to work for Tek and also the day she received that beautiful engagement ring from Rod Rolfe, a student of Linfield College.

Art and Irma Breazile gave a wedding dance Sept. 15, and invited us along with the crew Art has worked with so long. The groups used the opportunity and provided a pot luck lunch and shower gifts for the happy couple. They received lots of pretty and useful gifts for their home and we all enjoyed the dance.

The Open House was wonderful! Most of us made it with our families. We are all so proud of our new plant.

October starts out to be interesting. Wanda Sheets is back with us as a trainer again. Lois Ingersoll transfers from transformers and Gerd and Ruby's offices are being moved to make way for the expansion in Mechanical Assembly. (Tho't we were never going to be crowded again?) A Bachelor Dinner is being planned for Fran Gamon on Oct. 10, who has invited us all to her wedding the following week.

FINALS FOLLIES

Here's a welcome to the following, who are new in Final: Carroll Clason, Charles Haase, Don Knowlton, Gordon Douglas, Louis Lambert, David Lohr, Art Egger, Jack McCabe, Ken Miller, George Fullmer, Steve Trunde, and Betty Spohn. We're glad to have you with us in Final. Actually, Betty Spohn is not a new employee, but she has been away for some time. Betty took a two month leave of absence to "Rest". She says if she hadn't run out of money, she'd still be resting. (I've got news, she still is.)

There have been a few personnel changes in the last month. Dave Anderson is on loan to help Dave Spinks, and Merve Henkes in on loan to Custom Instruments.

John Neal, one of our colorful members, and a landmark at the panel stamping bench, has transferred to Unit Wiring. Poor Wendell, he can't seem to get away.

September was rather a slack month for weddings in our group, with only one marriage, that of George Fullmer. All happiness, George and Mary.

Well, the family night festivities were a real success and a lot of fun. I noticed a very large crowd in the Final area, viewing the displays created by those great showmen, Bob Hart, Roy Hyde, George Bennett, George Scott and Jim McGill, under the direction of Roger Noyes, our able group representative. The audience was a sort of captive one, being the line to get into Test backed up into Final. But the important thing is **they were there!**

I'm sure, however, our vistors enjoyed the wonderful display, and especially the magnificent, artistic sign which described the function of the department, (Plug).

Jim Hardisty, one of the **neuvaux riches,** is being seen these days driving a big black Cadillac convertible. (Probably got a dime!) He let me drive it around the parking lot at lunch one day, and I got kicks out of it to last me a week. I don't know why some people can have a big boat like that and I have to go on driving a Buick.

As long as we're discussing cars, I think we have a guy in Final who has set a record of some sort. "Lucky" Ben Grossen. Ben, Final's answer to Joie Chitwood, bought a brand new 1958 Chevrolet a few short months ago. It must have been jinxed or something, it just couldn't stay away from other cars. After three accidents, it looked sort of like a 1928, so Ben decided to trade for a new Ford. So far, he's had only **one** accident in two months with it, and he assures me that with a good start like that, he's bound to be happier with it.

Bob Hart and some friends were riding back from a fishing trip at the coast recently, when they passed an accident scene. There was a pick-up truck resting atop a yellow Chevrolet. "Boy, what a mess.", said Bob. He arrived home, looked in the garage, and discovered that his yellow Chevrolet was missing. P.S. His wife, who was driving his car, was not hurt.

I understand some of the boys went on a camping trip into the wilderness on opening weekend of deer season. Merlin Mack was the only lucky one, getting a forked horn buck. Al Hand dressed it out for him.

I think Gladys Koch is selling swimming pools in her spare time. I heard several people say, "Let's go see Gladys about the pool", last month.

The "Rifleman", Bob Taylor,won a gold medal and a turkey with his marksmanship in September. The medal was won with an army rifle dating 1884. Nice shooting, Bob.

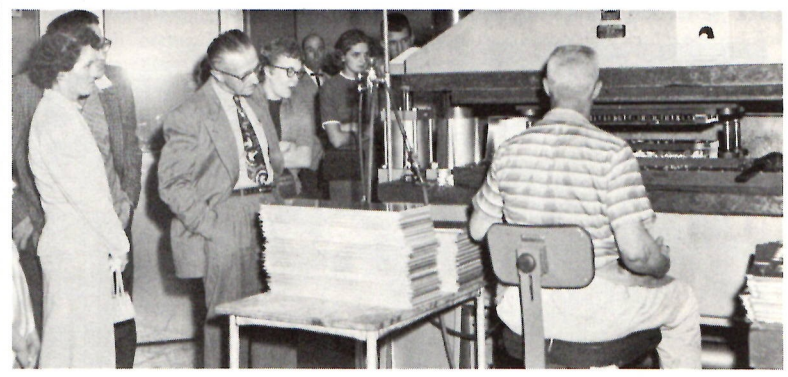
The Ted Eisenbrauns have moved into their new home on N.E. 97th Street. Also, Ted has recuperated from an operation he underwent last month.

Our people are still vacationing, (There are those who may say they never stop). Lorne Hofeld recently returned from a 6000 mile motor trip which took him around the U.S. and ended in Chicago. He said he picked up three girls who were hitch-hiking in New Mexico. Really, Lorne.

Generally speaking, vacations don't make too interesting reading, but when Dick Trythall parts with $600 and comes back smiling, that must have been **some** vacation. The Trythalls went to the 49th state, Alaska, to visit friends and generally live it up. Dick reports he was lucky in that he arrived just as the local liquor merchants were engaged in a price war. One of their fellow passengers on the trip up was Bob Bartlett, Alaska's delegate to Congress. (Just thought I'd throw that in to make the item worth reading.)

Farewells were bade to Ron Phillips and Jim Sorenson, who left to go to school. Jim was given a sweater by the Final Ladies Aid to thank him for pushing the coffee cart all summer.

SHOP VISITORS IMPRESSED BY MASSIVE PUNCH PRESSES



ACCESSORIES—WIRE PREP

A surprise shower was held in honor of Ruthe Beardsley who became the bride of Eugene Grable September 12. The wedding took place in Helena, Montana.

Congratulations to Virgie Johnson who gained a son-in-law. Daughter Eunice became the bride of Gene Sause on September 11.

Welcome isextended to the new girls in our group; Nolan Lankston, Nancy Sogeser and Sharon Rous.

A potluck for Gene Brink and Doris A. Beck was given recently as a farewell to Gene Brink and Doris A. Beck who left our department and moved into Plastics. Good Luck girls!

New girls in Wire Prep are these: Helen Glover, Mavis Haller, Vivian Weaver and Susan Witt.

Welcome back to Vera Henze after her trip to the hospital.

Jim Lilly rates a heroism medal with all those Wire Preppers. (or a Good Conduct Ribbon?).

Wire Prep thinks: If you have any jobs you can't get finished—**Why bring it to them?**

DELAYED LINES

Ed Cornilles retired as our group representative and Melva Craven will finish out his term.

Nadine Eadis has been made a permanent employee. Congratulations Nadine!

Vacations are nearly over and the trend of conversation leads to the Holidays ahead. Some are talking about deer hunting! I suppose four legged ones!

keglers korner

The men's 6:30 Bowling League standings with 18 games rolled on October 9 showed Roger Carter with the High scratch game of 234, Bunch Dixon had the High Series with 586 scratch. Handicap high game was held by Tom Williams with with a 259 (a scratch game of 219 and 40 pins handicap) and Jim Zika had the high handicap series of 656.

A goodly number are rolling over 500 scratch now with Roger Carter, Carrol Wright, Roy Eckelman, Bob Wruble, Jim Zika, Russ Bassindale, Dave Heizenretter and Ed Hopper among the honor rollers the first week in October.

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