

## FIELD REPORTS HONOR TEK TENACITY

Tektronix is proud of the record written by the service given to our customers by men in the field. Some of their daily work is quite routine but occasionally they are called upon to help out in a way that is unusual. Most of the calls to customers are reported in a form that leave much unsaid. Once in awhile, the customer himself will take pen in hand (or secretary on lap) and cue us in on the field men we seldom see.

Recently, Labko Scientific, Inc. of Stillwater, Oklahoma wrote a letter giving Robin Hoag and Sandy Sanford, of the Dallas Office, special mention for the fine way in which they responded with assistance for Labko's Chief Engineer, L. C. Labarthe. "These men were so determined to put this Type 535 Oscilloscope in perfect working condition that they 'started work' at 5:30 p.m. and finished at 2:00 a.m. with only a break for dinner." ... "We are highly pleased to see that this 'old fashioned' attitude of pride in products is very real and very much alive in your company."

"In the past 4½ years in this business we have never had the pleasure of having two finer engineers visit us than these two men. We were especially pleased that these people are so thoroughly trained technically. They went quite thoroughly into the finer details of much of the sweep circuitry. Not only do we have a much better understanding of this instrument now, but we have an even greater respect for its fine design and fabrication."

In July, Dick Ellstrom of our Phoenix Office was mentioned in a letter from L. Dick Tatro, Los Alamos Scientific Laboratory of the University of California. For his assistance on the 4th of July Holiday Dick Ellstrom was thanked sincerely. "I have never received such courteous and competent service from any industrial representative even during regular working hours."

(Continued on page 2)

## 2 Tek's Take U Fund Posts

Bill Lowery interviewer of Employment Office, has been selected to serve as a 'loaned executive' for the United Fund campaign this fall.

The United Fund draws upon business and industry for the volunteer help it needs in laying the ground work for the extensive all out effort to reach every person willing to give for the assistance of others less fortunate than themselves. Maryellen Stevens will be the second Tek to supplement Bill's efforts in the loaned 'executive' program. They will spend their working days (and nights no doubt) contacting businesses and large working groups to offer their assistance in organizing and informing about the seventy-one agencies administered to by the United Fund.

Bill was seen about the plant recently when he took a small group of students and their instructor on a tour. The group was made up of students completing their studies in occupational therapy at the University of Oregon Medical School. Their instructor who accompanied them was Miss Grace A. Black O.T.R., Head of the Department of Occupational Therapy. They were here to observe different occupations and study the rehabilitation possibilities of learned skills that enable the disabled to pursue gainful employment.



Bill Lowery



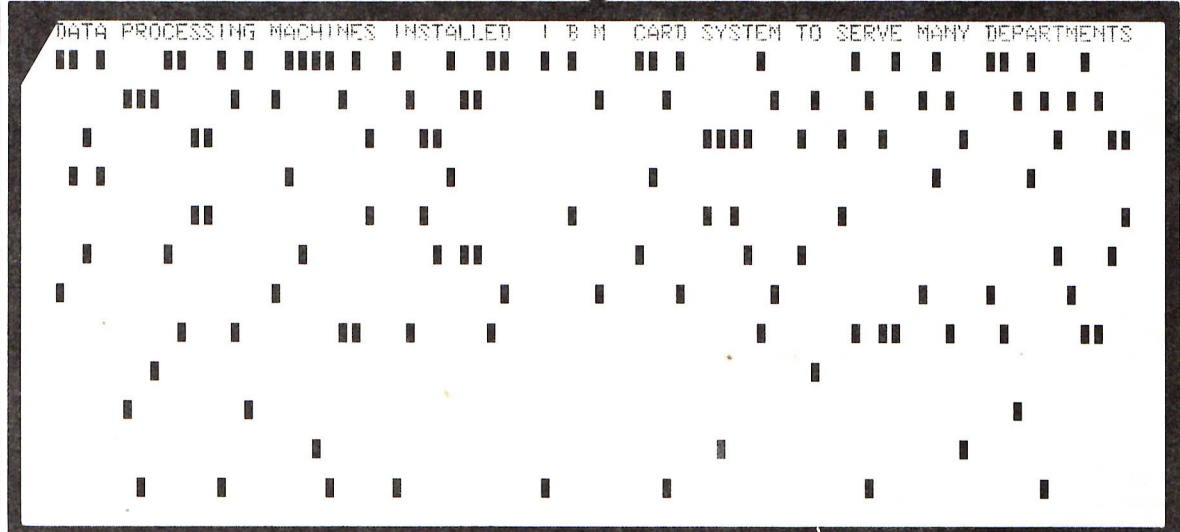
Maryellen Stevens

## C-R Tube Building Enlarged



The Tube Building has been extended eastward 82 ft. on the upper story level. This adds 5000 sq. ft. of space to the building. The addition space will be utilized for the manufacture of cathode-ray tubes. The building now extends from the west driveway to the main entrance driveway. Installation of massive vertical sealers and ovens await the completion of the interior.

## IBM Data Processing Machines Installed



The IBM card already familiar to many of our record keeping departments will in the coming months carry a heavier load of the many record keeping duties that have become greater with the growth of Tektronix.

As Tektronix grows, more orders, more people, greater inventories and more complex manufacturing problems are a part of this growth. To keep up with the pace of business and maintain a steady flow of information necessary for the proper planning of prod., the IBM machines have been installed for the initial use of the Accounting Department, Marketing and Manufacturing.



Ray McGinley

Ray McGinley, new addition to the Accounting Department will be the supervisor of the IBM room. He will have charge of the key punching as well as operation of the other units as they are installed. His assistant is being selected and had not been named at 'press-time'. Phyllis Jensen and Norma Jean Samuelli from the Accounting Department punch cards for the payroll information and sales analysis reports. Leona McKinnon of Hawkin Au's Requirements Group key punches for their purposes. Instrument Sales, Ed Kellogg's group, has Betty Jorgensen punching cards on the day-shift and Alice Stanley working swing. Their work is supervised directly by Mart Kubarsepp who is responsible for the scheduling of orders by quoted delivery dates.

Material requirements information valuable to our buyers, inventory records to maintain control of parts and supplies and instrument requirements reports may all be compiled from the information punched into the cards.

Sales information can be integrated into a sales analysis report very readily in at least four ways: By instrument sold, by States or Zones, by office and by customer. Listing of orders can be accomplished by instruments on order, by acknowledgement numbers or by quoted shipping week.

Most of the equipment now in our possession was ordered for the express use of production control, material requirements and stock control. When the new building in the Industrial Park houses most of the production facilities, men specially trained in the use of the IBM units will take over their operation. Jim Zika and Bill Swift will be operating

the IBM units for Instrument Manufacturing purposes. By that time additional machines already on order will arrive to fill the expanded needs in accounting, in sales and possibly in certain functions of personnel records. As we gain in experience with the system more applications and benefits will be derived from the installations.

It was noted at the time that the Stock moved to the new warehouse that the space vacated by them at the Plant would house the first IBM room. Acoustical tile to soften the clicking of key-punchers and the rapid fire sorting of thousands of cards had to be installed. special wiring to carry new supply of power into the rooms was brought in. Follow through by painters and carpenters will soon have the room in full operation.

The card itself, which will be used here, is the storehouse of data in coded form. It has 960 possible punch positions which can be used to register the desired information. It is 80

card to another. As accurately as an operator may punch these cards the chance for error, the human kind, is always present. To diminish the source of this difficulty a verifier unit is used. The verifying process is essentially a repunching operation. A second operator strokes the keys of the verifier according to the info-source (i.e. invoice, order or list). If the verifying punch does not agree with the first key-punch, the machine locks and a '3 tries and you're out' mechanism is set in motion. The correct key must be struck or the original error found. An incorrectly punched card is notched at the head of the column in error so that the operator can select it from the rest of the cards and correct it. The cards properly punched are passed through, notched at the right end of the card and stacked in order. Thus a stack of cards can be held up and at a glance, a mispunched card can be pulled out of the pile because it will not have the verifying notch that the other cards have.

The card, the key-punch and the verifier are all fundamental to the use of an IBM system. However, application of the information that is recorded on the cards requires the use of other units specially adapted to record and interpret the information punched into the cards.

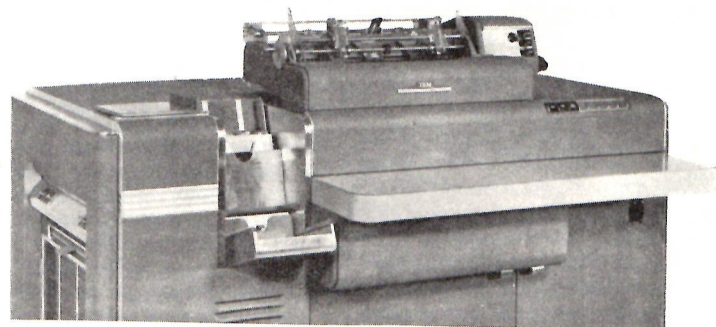
For purposes of accounting, the IBM No. 402 will be used. This machine will automatically list in detail all the information from each card fed through its hopper. In addition to listing, the unit tabulates by taking information from each card, adding or subtracting and printing total. The unit will list at the rate of 80 cards per minute and tabulates at the rate of 150 cards per minute. It has two reading stations with 80 reading brushes (one for each column in the card). As the cards pass over the brushes the holes punched in the cards allow the brushes to 'read' by making contact with ter-

Con't. On Page 2



columns wide and 12 high. The data to be punched on the master cards will be compiled from the raw sources such as invoices, orders and inventories.

The information is transferred to the cards by a Key punch machine (we will have three of these - at present we have one), the operator will have a program card set up for each application that will control skipping or duplicating from one



IBM 402 ACCOUNTING MACHINE





# Tek Talk

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Departments are asked to notify the Editor if Reporters named are not currently correct.

## Field Report cont.

Ken Dellinger and Bob Seaberg, both of Chicago at the time (Ken is setting up things in San Diego about now) replaced a malfunctioning scope (not a Tektronix one at that) for the use of P. H. Smith, engineer-in-charge of the Chicago-Land Fair for Remington Rand UNIVAC. "They were kind enough to loan me a 310 scope until ours could be fixed. This scope made the operation of the Computer at the fair possible."

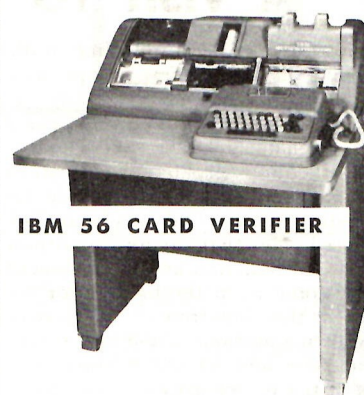
Everyone can feel assured that the spirit instilled in these men is common to the majority of our field people. Dal Dallas makes sure that objectives are not clouded over by too much exposure to methods and policies foreign to Tek philosophy by a 'return engagement' to the plant at regular intervals for our field engineers and representatives. This also serves as a briefing on new applications and circuitry and a re-schooling for 'trouble-shooting'.

## DATA PROCESSING--Cont. from p. 1

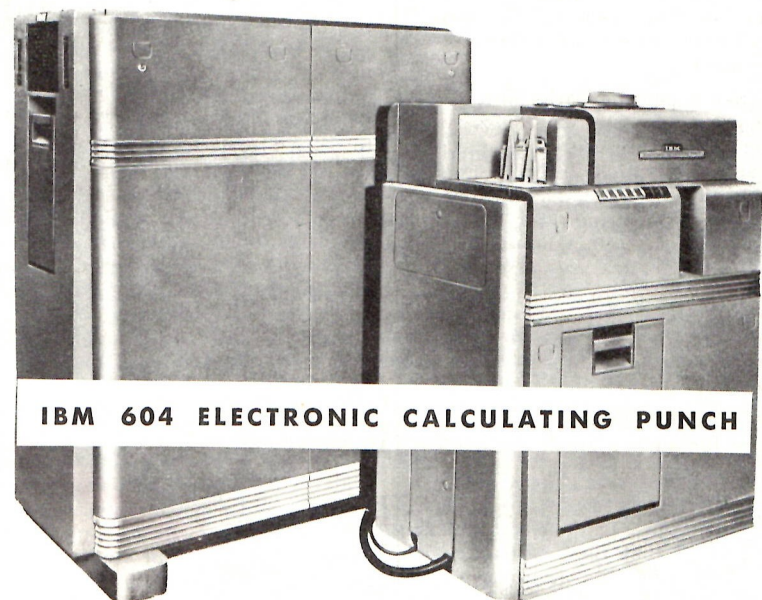
minals that are wired to a control panel. The panel is wired to control the machines functions; and so as the impulses are recieved they are interpreted by the machine to be an adding, subtracting or printing signal.

More involved problems require the use of the IBM No. 604 Computer. This unit electronically performs basic calculations at high speeds. It will add, subtract, multiply and divide. The results of the calculations can be recorded by an attached punching unit at the rate of 100 cards per minute.

The No. 514 is a reproducing punch machine that will reproduce the information punched into one card by punching another one exact-



IBM 56 CARD VERIFIER



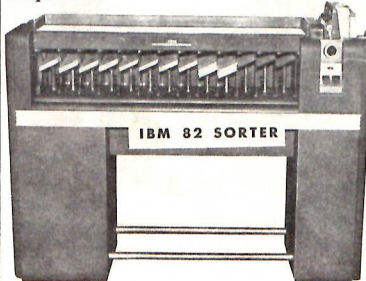
IBM 604 ELECTRONIC CALCULATING PUNCH

ly like it. Thus, numerical or alphabetical information can be transferred from one set of cards to another. Repetitive data can be gang-punched on a whole set of cards from a lead card in a stack. The machine will change over automatically to a new set of information as it comes across a new 'master'. All the cards following this master are punched exactly alike.

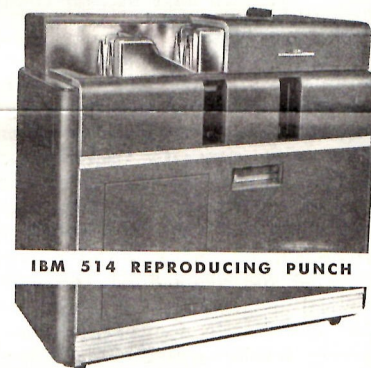
A special adaption of this unit is in connection with the No. 402 Accounting machine. Summary punching of new-balance cards is accomplished at the same time that the 402 prints the balance of each account.

When thousands of these cards are punched the simple task of filing becomes complex. Selection of certain cards and refiling them after use, substitution of new cards for old ones and separation of matched and unmatched cards are some of the functions of the IBM 77 Collator. Cards can be filed by numerical coding. All zero balance cards can be removed from a group of accounts payable cards. (Thus, when payroll is made up in this fashion if you have no wages for a pay period your card would be dropped from the file. Pleasant thought!) A master card can also be punched to sort the file for all units in production of a certain Type number or specify order number.

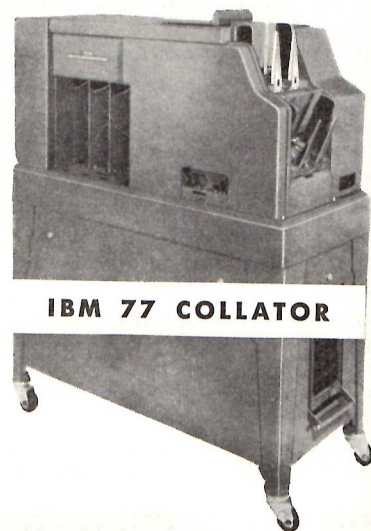
The IBM 82 Sorter has 13 pockets, one for each of the twelve punching positions of a card column and one for unpunched cards. An application of the Sorter familiar to many who watch TV is the searching of personnel files for certain types of people. It sorts at the rate of 650 cards per minute per card column. Thus with 80 columns to sort, if all were used, it would only take this unit an hour and a half to completely sort 650 cards for all possible numerical punching positions. Alphabetical sorting requires double sorting of each column. It groups all cards of similar classifications, arranging them in numerical or alphabetical sequence.



IBM 82 SORTER



IBM 514 REPRODUCING PUNCH



IBM 77 COLLATOR



Utilization of the IBM data processing equipment is expected to take the tedium out of searching files and lists to find omissions or errors in accounting records.

## OF MEN AND JOBS PART II

By Don Kepler

We closed last month's article with this observation: In effect, there are two basic reasons for a man's failing on a job. The first is that he does not possess the skills and aptitudes necessary for handling the job; he lacks the can do. The second is that for some reason he is unwilling to effectively use his abilities; he lacks the will do.

To make the best possible decisions it is essential to evaluate both the can do and the will do qualities.

Our method includes considerations of both can do and will do, and is designed to provide more accurate answers to the following questions:

Does this applicant have sufficient intelligence to handle the position?

What has been his attitude toward work in general?

What are his strong points for the job? What are his weak points?

To what extent does his pattern of abilities or skills match the requirements of the position?

Will he find the position interesting and satisfying? And how well is he motivated?

Will he be a dependable and trustworthy person?

Will he get along well with others?

What is his potential for future responsibilities beyond the immediate position for which he is applying? Should he be considered for more responsible positions as they open in the company?

A review of these questions reveals that no one method of gathering information about the applicant can possibly provide all the answers. If we use only psychological tests, or only an interview, or only a check with his previous employers, we can fail to get vital information about the applicant's ability and willingness to handle the job.

However, where information from many sources is gathered and considered thoughtfully, it is possible to predict with much greater accuracy whether the applicant can handle the various demands of the job, and whether he will enjoy the work.

### What About "Examiner Judgement"?

Repeated studies have shown that it is impossible to judge an individual's abilities from his appearance, his manner, or a casual interview. Rather, we find that psychological tests are usually essential to reliable estimates of an individual's intelligence, aptitudes, and achievements. Psychological testing, however, has not reduced the importance of 'examiner judgement.' Personnel selection remains far from

being a mechanical process or even an exact science. For one thing, the analysis of the job requires a great deal of judgement. Then, selection of tests corresponding to the more important job elements requires much study, research and validation. And, finally, evaluation of the applicant's qualifications for the job often presents a number of challenging problems. If an applicant shows very high aptitudes for the job, but immature personality characteristics, should he be hired? If he scores high on three of the recommended aptitude tests, but low on the fourth, should he be hired? If his intelligence test score is low, but his previous employer says he is "very bright", how should he be rated?

These are the kinds of evaluations that require "examiner judgement." In effect, systematic selection procedures provide information only; it is in the final over-all rating that we must draw conclusions from the information given.

### The Rationale Of Psychological Testing

A psychological test employs the practice of sampling—the same practice found in many everyday experiences. The quality control engineer, for example, spot-checks a sample of manufactured items from a particular production run and, from this sample, draws conclusions regarding the entire run.

Similarly, a farmer does not have to examine every ear of corn to estimate the quality of a particular crop. Rather, he may sample 25 to 50 ears, and then judge the entire crop.

The same principle applies in judging a man's abilities. The personnel department cannot observe every experience an applicant has had in reading blue prints, but they can sample the applicant's ability to read blue prints—watch him read them for 15 minutes or so—and then come to conclusions regarding the general quality of his blue print reading behavior.

In effect, a psychological test is simply a technique for sampling the behavior of an individual in a controlled situation. For example:

Consider the problem of a high school athletic coach who must choose one of two high-jumpers of apparently similar ability to go to the state track meet. If one boy has been practicing on a dirt track in one gym, and the other on a cinder track in another gym, it is difficult to judge with confidence which of the two will turn in a better performance at the state meet. A wise coach in this case would select a high-jump situation as simi-

lar as possible to the one at the state meet. He would then bring both boys to this situation, and study their performance there. After comparing the performance of the two boys under similar conditions, he would make his selection. Similarly, consider the problem of choosing between two applicants for a job involving arithmetic computations. If the two applicants have had experience in different situations, it is difficult to judge which of the two can handle arithmetic problems more quickly and accurately. The value of a psychological test for "arithmetic" then lies primarily in the fact that you can compare the arithmetic performance of the two applicants under controlled conditions. This fact is made clear by the following actual case.

Applicant 1 was checked for arithmetic proficiency. He had received B— grades in high school mathematics, and his previous employer described his arithmetic work (as a time-keeper for a metal fabricating company) as "excellent."

Applicant 2 was also checked for arithmetic proficiency. He had received C— grades in high school mathematics, and his previous employer described his arithmetic work (as a cashier in a large restaurant) as "pretty good."

Yet, under controlled testing conditions, applicant 2 received a Stanine score of 8 (High) on the Aptitude (Arithmetic), while applicant 1 received a Stanine score of only 3 (below average) on the same test, under the same testing conditions.

Such cases are not rare. High schools and colleges, individual teachers, and individual employers have different standards for judging work. But a psychological test puts all applicants in the same situation, and thus provides a controlled standard for judging their work. Comparing the test scores, then, provides a more realistic basis for comparing the 'can do' qualifications of the applicants.

Psychological tests are also useful in reducing the time necessary for judging an individual's performance. We should like to know, after studying an applicant intensively for an hour or so, what our judgment would be if we had observed him casually over a period of several months. Because training time is so expensive, and because discharges are unpleasant, we often find it essential to administer tests (the practical) rather than putting the applicant on the job for a trial period (the ideal).



# TEKS MASTER MACHINE MAKERS

## A VISIT TO THE MODEL SHOP

**Editors Note:** On my first walk around the plant a few months ago, I felt that the area frequently referred to as the Model Shop (where the Mechanical Design and Production Tooling groups are located) was the center of some highly interesting work. Old hands at Tek assured me that many important aids to production and development have come from the benches of the men in this department. To answer my own questions about what happens here and let other 'come-late-lys' listen in, we sat ourselves down and asked the micrometer and gauge guys to give us a thumbnail sketch of their departments and the function they serve in the over-all production picture of Tektronix instruments.

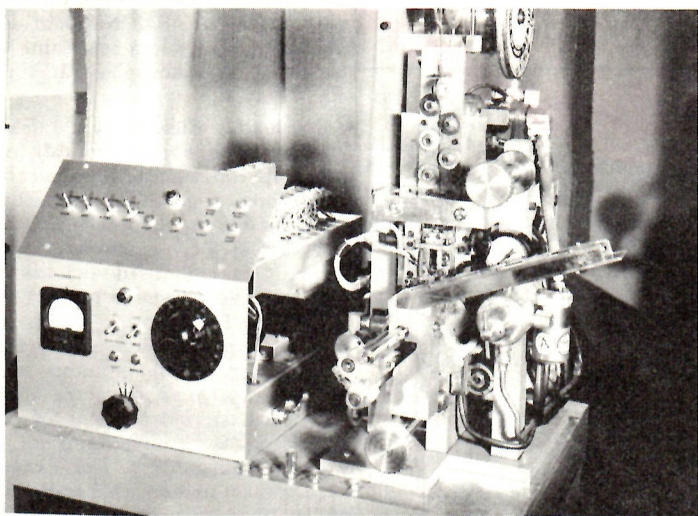
Taking parallel paths into separate groups without finding areas of overlapping interests is not possible in an organization that is interested in producing one basic product. Keeping that in mind we will offer here a description of the Model Shop (Mechanical Design) skippered by Jim Morrow and the Production Tooling group with Armon McDowell at the helm.

### MODEL SHOP

Mechanical Design is too big a name for such a small department, so by unanimous agreement this group holds to Model Shop for a department name. The term 'model shop' does not fully describe their work. A 'model shop' as some know it usually builds a working model from a detailed drawing. Our model shop does more than this. They are responsible for much of the original mechanical design; and work so closely with each other on some projects it is difficult to determine where the efforts of one group leaves off and the other begins.

At the present writing there are 18 people here in the Model Shop who devote their time to the mechanical methods required in the development and production of our instruments. In a sense this group is tooled and manned to offer mechanical aid to all departments, but give special attention to the engineering development groups. When these groups come in with a sketch for a thing-a-ma-bob that'll do the job the Model Shop takes it from there; and working closely with the engineer that has the project in mind they attempt to come up with an answer and a workable model as well. Included in the functions of the Model Shop is the long range mechanical development of new products. Plastics as well as metal materials are used in the design and construction of them. Special purpose machines to take the tedious task out of the hands of valuable people and free them to take over duties of greater responsibility and productivity are also developed, designed and built here in the Model Shop.

Originated in 1952 under the direction of Jim Morrow with the



The Automatic Pin-Welder—a recent achievement of Mechanical Design through the personal skill and inventiveness of Bob G. White. The machine is an air-cylinder, relay controlled spot welder.

help of Art Enright, the Model Shop was merged in the Spring of 1954 with the Production Tooling group. The whole group moved into space made available to them in the Engineering building and was called Mechanical Design. The Plastics department, now an important part manufacturing group, grew out of a project begun in the Model Shop. The use of plastics (knobs, probes, etc.) is obvious in the assembled instrument. "Home-made" dies, and machines were designed to set this department up on a limited output and as production quotas increased, more machines were put in operation.

In 1956, in an effort to keep the Model Shop from becoming too involved in production activities some of the group were again identified as Production Tooling. Demands for more production tooling requires that over half of the Model Shop boys are working in projects of this nature at the present time. However, they confidently hold to the hope that sometime in the future they will be able to devote full time to mechanical development.

Examples of the craftsmanship turned out by the men here can be found in a number of departments. Ideas, development problems and projects have originated from several sources. Need is the mother of invention, and holding to the premise that impossible is not a word to be used in problem solving these fellows make magic with materials.

Signs of department growth are evidenced by the secretarial assistance of Jeanne Brandon—a bright spot in the maze of machines and the drone of men's voices talking their technical lingo. You'll recognize some old timers as well as a couple very new names in the list following:

Jim Boyle, Art Enright, Archie Yergen, Bill Johnson, Vern Hansen, Bob G. White, George Rumpakis, Lee Crowell, Lloyd Davidson, (purchaser for the group), Orville Withey, Vern Bartlett, Al Stewart, Bill Webber, Al Spiegel (who assist Lloyd D.) and Charles

Olson (for the summer). Ken Austin, most recent newcomer to the group was added to the list Aug. 1.

We hope you get a chance to meet some of these fellows personally and ask them about their work. They're interested in what you are doing as well and it's from this exchange of work-a-day chit chat that many new ideas are born.

### PRODUCTION TOOLING

This department doesn't hit the headlines very often, but it is a vital and important link in our fast growing organization.

There are now 28 Tek in Production Tooling whose combined skills are employed to turn out the precision tooling for dies and machinery required to produce our complex array of chassis, brackets, panels, knobs, cabinets, and many other mechanical components. Here are the names of the tooling group at the present writing. We hope you get acquainted with some of them. Look them up in your group Photo Album on pages P1 and P2 along with the Mechanical Design group.

Lee Penson, Jim Kelly, Ed Archer, Bill Tescher, Rod Skelton, Joe Reeder, Shorty Spencer, Slim Sorenson, Gerald Crawford, Burt Eberly, Herman Boll, Hank Jones, Dale Holiday, Wayne Christianson, George Tuley, Dale Helbig, Joseph Varadi, Herb Sackett, Oren Fowler, Al Briggs, Gordon McGonagan, Mike Cavanaugh, Max Messmer, Francis Barry, Ivan Arnold, Don Hendricksen and Dale Eberly—(Burt's son—working for the summer).

Production Tooling has 5 basic functions: 1. Tools and dies for the forming, punching, and drawing of aluminum being processed in the shop; 2. Tools and dies for the rapidly growing plastic department; 3. Ovens and kilns used by both CRT, and Ceramics; 4. Construction of specialized machines used in capacitors, crt, transformer and ceramic departments; and finally, 5. mechanical mock-up of new instruments before they enter production.

It won't be long before more and more of our instruments will be completely tooled by the fine skills of the men in this department.

The development of a special tool to solve a production problem is both amazing and interesting to the uninitiated. Better understanding of the close tolerances demanded to manufacture quality products should give everyone using them better appreciation of the work done in the production tooling department.

Earlier this year the pressure for space was relieved somewhat when the Printing and Advertising departments moved to Cedar Mill. However, as is the nature of most departments at Tektronix, with the pressure relieved the department flowed out to occupy the space. Like other groups the Model Shop and Production Tooling await the completion of the new production building that will allow further expansion here at the plant.



### OUT OF STOCK

On Independence Day, Joe Hogan reversed things a little and surrendered his independent bachelorhood to matrimony. He and his wife Madonna spent their honeymoon driving down the Oregon coast.

The stockroom personnel plus a few volunteers will remember Sat. the 20th. of July for a long time to come. This was the day we vacated the stockroom.

It was just like one of those family removals where you never realize how much stuff you have until you come to move it.

Everyone pitched in and soon there was an endless line of hand-trucks and carts loaded to capacity and headed for the dock where the trucks were waiting to transport the stuff to our new warehouse. At the end of a ten hour shift, everybody looked more than a little weary and the feeling that once in a lifetime was enough seemed to be unanimous.

Monday morning saw varied types of response to the phenomenon of a completely vacated stockroom. Some people wanted to know where they could get a pencil when they needed it, some sent congratulatory messages, a few sent beautiful flower bouquets and others yet presented candy and cake. To all these kind and thoughtful people we wish to express our sincere appreciation.

### SCIMAREC

Though vacations are eagerly anticipated the consensus of opinion seems to be there is no place quite like home. Carla Bell made a trip to the midwest. Inge Stromberg in his little Hillman traveled over Oregon. Jack Tate reports he found some black agate on a trip down the coast. Helen Ross hooks up her little house on wheels to her jeep station wagon and takes off "in search of adventure" each weekend. Steve Hughes just rested (?) at home. And we trust you got all those berries picked on your vacation, Leola.

Bill Herrick tells us that he and the children need Collette at home more than we do. Even so, everyone misses you, Collette.

Nadine Classen, Lois Grimes and Leona Costa have all recently left. To keep up with our work we've enjoyed having the help of Dorothy, Deana, Harriet, Wilma and Helen from Capacitors.

### CABLEGRAMS

The gals in Cables have been keeping in close touch with their "child" Bok Mi, the Korean girl who receives their help through Foster Parents' Plan Inc. An interesting note was made from their letter received from Bok Mi earlier this year which expressed pleasure in receiving gifts of money and galoshes at Christmas last year. (Christmas gifts are sent as early as July to enable the shipping to be completed in time for distribution.) The group was advised by the Foster Parents' Plan that to provide a better shelter for the family of Bok Mi would cost about \$60.00. This would be a tin roofed mud-walled hut with two mud-floored rooms and a kitchen. Bok Mi's family is sharing a tent at the present time with another family.

## Have You Met?



### Helmuth Kahlman

Number two in our "Have You Met Series" is one of our boys from Estonia. Helmuth has been with the stockroom for nearly three years during which he has been connected closely with our Helser warehouse, being the custodian of our stock there. This doesn't mean he spends a lot of time there, on the contrary, he very rarely makes the trip, but he certainly does know what it contains.

His records are a wonderful tribute to his flair for neatness and unscrupulous attention to detail. The comings and goings of material are noted with unfailing accuracy.

His services are in demand around the plant with people who have a hand printing job to be done. At this he excels.

Helmuth lives in the Garden Home district with his wife Sylvia whom, many will remember, was once a Tek in our mechanical assembly department. She retired to await the arrival of their daughter Tiina (Yes, a double I). We understand this is a very old Estonian name and not uncommon in that country.

The Estonian community in Portland has a choir and volley-ball team amongst their many activities. Helmuth is a member of both. We never seem to hear him singing around the plant, maybe he is reluctant to compete with another of the stockroom "foreigners" noted for his excellent voice and tuneful whistle. The volley-ball team recently won the west coast championship, competing against teams from California and Vancouver B.C.

There you have Helmuth Kahlman, a worthy member of our supply operation.

### TEST PROBES



On June 14th, Lemoyne Warner of Component-Test was the guest of honor at a surprise party given by the co-workers in the Test Department. The "Bachelor Snack Bar" was set up in Test 1 and a feature attraction was the large cake decorated with the sad message "IN MEMORIAM." In spite of Lemoyne's imminent state of connubial felicity, his appetite was undiminished, as the accompanying photo will testify.

Lemoyne secured the "fettlers" to the lucky gal, nee Eleanor Ellsner, at Our Saviour Lutheran Church at 2:00 p.m., June 16, 1957.

After a short honeymoon in Denver, Colorado, the couple is now at home at 203 S. W. Fairmont Drive, Beaverton.



An example of the product of the Production Tooling department is this Draw Die for the new Scopemobile front panel. With this type of precision tooling the Shop is equipped to meet the demands of Production.



## Wedding Bells



Marge Earlywine became Mrs. Jack Sweet on June 18th. This pose typifies the happy years ahead that are wished for all the newly weds.

\* \* \*

## ACCESSORIES

The Acces. picnic at Cape Lookout on July 27th was a progressively fine and finer day. The damp weather to start was offset by afternoon sun which brought out the bathing beauties and their 'beasts'. The kiddies antics and enjoyment of the beautiful beach playground highpointed the day, tho. The 'hobo' touch of coffee from an old tin can and beans from a jug added to the frivolity. And the fried chicken just melted away.

Just so they wouldn't miss a minute of the fun, Florence Shade and her two daughters, Effie Kenady, and Helen Utting and her three sons, camped out on Friday night. And what a beautiful spot for camping. So convenient, too! By that I mean, the service was wonderful!

Helen's 11 year old, Lee, is a Cub Scout, Pack 198. He took over the supervision of breakfast — bacon, eggs, toast with jelly, etc. Jan, 7, and Mike, 5, lent their able assistance to the proceedings, and the three of them really did a bang-up job. The only complaint was from over-eating and the gals really didn't mind.

If we had given prizes for late-comers, June Skelton's family would have taken first place by arriving at 6:30 p.m.? Good heavens, June isn't that a little late? Bob Kaufman nearly won the spot with a 3:00 arrival. But we were so glad they came—late or no. We're already planning another outing for next year, this one was too good to be our last!



Ken Hoggatt, Test, served as a guide when about 45 students of the Portland Radio & Television School toured the plants as guests of Chuck Carroll, Transformers. The group viewed the films, We Are Tektronix and the Cathode-Ray Tube. They then toured the production areas guided by Bill Reich, Paul Lund, Elmer Wood, Cecil Conrad and Ken from Test. Chuck Carroll and Ed Davis, (Stock) completed the group of guides.

## Ode To Stock Rm.

When the plant workers arrived on July Twenty-second, The stockroom was closed, for this they'd not reconed. Stock goods had moved, and although 'twas discreet All production supplies were at far Hocken Street. But the plant toiled on in a manner untiring, For the people in mechanical, final, and wiring Knew that the stockroom, although miles away Would still get those parts here day after day.

## MARRIAGES

Coral Lee Jenkins to Darrell Mayor	May 28
Margaret Hamm to Dick Trahan	June 21
Robert Kines to Marie Sheets	June 22
Shirley Helm to Laurence Montgomery	June 28
Doris Meyerink to Leland Gibbens	July 2
Joseph Hogan to Madonna Ann Rhone	July 4
Glen Bunker to Lynnette Gardner	July 5

## BIRTHS

Yvonne and Pat Moran	Daughter	June 13
Cecil and Phyllis Conrad	Daughter	June 14
Dick and Gladys Trythall	Daughter	June 16
Gareld and Joyce Crawford	Son	June 18
Louis and Veronica Le Doux	Daughter	July 2
Buddy and Delma Ward	Son	July 2
Helen and Orville Young	Daughter	July 2
Ava and Lloyd Crawford	Son	July 4
Bob and Coleene Carroll	Daughter	July 8
John and Ruth Sutherland	Daughter	July 16
Lefty and Velma Vandehey	Son	July 20
Bob and Mary Ellen Randall	Daughter	July 24
Bill and Corinne Swift	Daughter	July 26
Warren and Billie Bybee	Son	July 28
Bob and Theola Jackson	Daughter	July 30
Guy and Shirley Borlaug	Son	July 31
Howard and Kit Vollum	Son	August 6
Wayne and Barbara James	Son	August 6
Paul and Louise Smith	Daughter	August 5

## TWX — BALT

### MSG — SPECIAL

LEO HAS A LITTLE WULFF. HIS NAME IS ANDREW AND HE APPEARED ON THIS LAST TUESDAY. (July 23) HOW ABOUT THAT? GUESS HE NEEDNT BE ENTERED IN TRAINING SCHOOL FOR FIELD ENGINEERS YET BUT WELL KEEP U POSTED.

## KIT PREP

We do try, Percentage-wise.

July 14 was the date, Cape Lookout State Park—the place Kit preppers and their families enjoyed picnicing, over night camping, games, swimming and discovered a new slogan—Getting To Know You—Better.

Nine K. P'ers and THIRTY members of their families all said they enjoyed one of the nicest days at the sea shore.

There are now an even two dozen K. P'ers plus the boss man Phil Mallery so percentage wise 33 1/3% of us attended our first get together outing. We are always trying for a high percentage in all our various endeavors. Here are just a few facts and figures: 16 2/3% visited the blood bank in May. Connie Luckenbach and Jardis Brookens received credit for two pints each because they brought Walt and Buz, their husbands along. Solme Soot forgot to take her vitamins that day, she says next time for sure. Elaine Kinsman got in under the closing bell and gave the 237th and final pint to put them well over the quota of 200 pints set for the day's drawing.

We are sure to have the highest percentage of any department for 8th grade grads for 1957. Marietta Kelgore's Larry, Irene Wing's Tommy, Jardis Brookens's Carol, Dorna Maynard's Diane, Vera Sigler's Eileen, Elaine Kinsman's Karen—this adds up to 25%.

As soon as school was out the topic of conversation seemed to be "Have you moved into your new home yet?" Shirley Peter and Jardis Brookens both moved to Beaverton. Erma Wolever and husband Dick found a cozy apartment at Cornelius, Joyce Ness and family found a roomy apartment in Tigard. Elaine Kinsman moved over the 4th of July holiday to a new Hillsboro address...20% of us on the move!

Violet Hawes transferred from Mechanical Assembly and Rose Archer from Ceramics. Marie Jungles is on loan to us for the summer from Accessories.

## FINAL FOLLIES

The Boys of the final Dept. were challenged to a Softball game by the Meadowlarks—an all girl Softball team—The game will be played in about 2 weeks at Forest Grove. The exact date to be announced later.

Coaches last word: — and keep your eye on the ball

## Ramblings From Plastics



Things are interesting in the Plastics Department. The gang gave a big farewell party for Chuck Kauffman (see cut) when he transferred to Quality Control.

Everyone raves about Oregon, but they go out of state for a vacation. How come?

The Four Musketeers spent a day at the beach. Maybe by next summer Cannon Beach will have recovered.

Bob White left for a trip to San Diego, but we wonder if he'll get any further than the Marine Memorial (and Club) in San Francisco.

Bernice Lucas learned the hard way to close a matchbook cover before striking.

Val Arczynski brought her fifteen year old niece back from the East. She's going to have an interesting time.

Wish everyone could see our Molding machines in operation. They are fascinating.

Jerry Baldwin dropped a card from Yellowstone. The weather is as nice back there as here.

Duncan Bergeron returned from his vacation and cracks the whip with new vigor.

**ASK YOUR POSTMAN —  
IS MY ADDRESS CORRECT?  
(ZONE and POST OFFICE)**

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P. O. Box 831  
Portland 7, Oregon

Francis Frost  
439 Prospect Ave.  
Manhattan Beach, California

REQUEST 3547

## Ham Club News---Field Day 1957

The weekend of June 22-23 saw Bull Mountain near Tigard literally crawling with Tektronix "Hams". Most of them were there to participate in the ARRL National Field Day contest, while a few came only to see what takes place at such a Field Day site.

Normally, Field Day is held at some remote site, preferably on a mountain top, where communications conditions are good. Power is usually provided by an emergency unit such as a gasoline driven generator or batteries. Our club used a 5 kilowatt generator acquired for us by Chuck Mallison. The contest consists of making as many contacts as possible with amateur radio stations across the country. Multipliers are applied for operating independent of commercial power sources and for low wattage transmitters. For example, each contact made with a transmitter of less than 30 watts and operating from emergency power source would count as 9 contact points. A 3 multiplier would be applied for low power and another 3 multiplier for the emergency power source.

Our club operated from 5 tents set up near the home of Gene and Arlene Kelsey on the slopes of Bull Mountain. As this was the first Field Day for most of us, we did not do too well point-wise but we all learned a lot from the experience. We learned much about the number and types of antennas, proper placement of antennas, bands which can be efficiently operated simultaneously, and last but not least, we learned much about station logging and general operating techniques. We know the mistakes we made this year and profiting from our experience, it should be possible for us to place high in the national standings next year.

## Sawyer's Select Bowlers Bow To Tek Thunder

A selected group of Tekes, both men and women, made up four teams to meet Sawyers at the Beaverton Bowl on Saturday July 27. The group was made up from volunteers and the teams were formed by lot according to their respective averages. The Tekes and Sawyers were within a few pins of each other on their average handicap scores posted at the start of the tourney.

Tek took the tourney by a comfortable 225 pins total for the four teams rolling. The four Tek teams massed 9061 against Sawyer's 8836. The rather outstanding bowling of Cathy Meyer supplied 508, Sunny Hansen—a healthy 564, and Mollie Veale came through with a 507. Miller Duris rolled 601, Ed Hopper 503 and Slim Sorenson hit 562. The men's teams were Carol Wright, Bill Hutton, Ed Hopper, Don Ellis and Slim Sorenson; the other team consisted of Don Pratt, Roger Carter, Frank Thomas, Guy Borlaug, and Miller Duris.

The gals that turned out for the event were Cathy Meyer, Melba McKinley, Marion Peterson, Sunny Hansen, and Eva Killpack on the first team and Mollie Veale, Alvina Fry, Ruby Carter, Eve Fitzgerald and Helen Thome who made up the second group.

**BULK RATE**  
U. S. POSTAGE  
**PAID**  
Portland, Oregon  
Permit No. 740

Outstanding operator for the 24 hour event was John Larson who spent practically the whole period operating CW in the 20 meter tent. Other operators who contributed greatly to our total point score were Paul Buchco, Denny Nelson, Don Thiessen, Dick Gary and Bill Johnson.

Others participating were Loren Parks, Chuck Mallison, Gene Kelsey, Frank Lucero, Earle Pahlka, Al Stewart, Bob Herb, Will Marsh, Byron Witt, Gordon Fromm, Bob Randall, Jim Strickland, Harry Stewart, Jim Looney, and Bob Jellum.

Splendid meals and ample supply of coffee were provided by the following YL's (Young Ladies) Arlene Kelsey, Jean Thiessen, Lois Gillespie and Beverly Nelson. The girls are to be congratulated for a job well done. Next year we would like to see some of the gals right in there operating the stations. We hear already that Denny Nelson and Don Thiessen are getting some competition in the code department. Besides, a feminine voice calling "CQ" Field Day" would probably get enough answers to keep three guys logging the stations.

The club wishes to thank Bob Herren, Bill McCord, and Art McFarland for their help in providing the necessary heavy duty power cord operating tables and electrical fittings. Their fine cooperation is greatly appreciated.

If anyone who contributed in any way to this first successful Field Day has been missed in this report, your reporter hereby apologizes.

We hope that next year we can have more participants and a lot more contacts. With the experience gained in 1957 we should have a truly great Field Day in 1958.

The next regular meeting of the Tektronix Employee's Radio Amateurs Club will be held on Thursday, August 22nd, at 7:30 P. M. in the Engineering Conference Room.

## Tale Spinners



Jack Murdock

We were given this photo only a few days ago. Jack Murdock is shown here ready to take a free 'chopper' ride. The occasion was the Corvallis Buffalo Burger fly-In June 30. The free rides were given to lucky winners in a drawing held following the purchase and consumption of the "Buffalo Burgers".

Other Tek fly clubbers attending were, Ken and Romaine Walling, Bill and Virginia Polits, John and Geneva Kobbe. Roby Abeene, Jack's uncle made the trip also. The fly club's Tri-Pacer was used and Jack flew his Bonanza.



**FLASH!!!** Don't dial the operator on another telephone (or line) or ask the party to hang up and call again. Flash? Just press the receiver button or hook down firmly 3 or 4 times to gain the operators attention, and she will transfer the call, or page.

Signed Miss P.B.X.