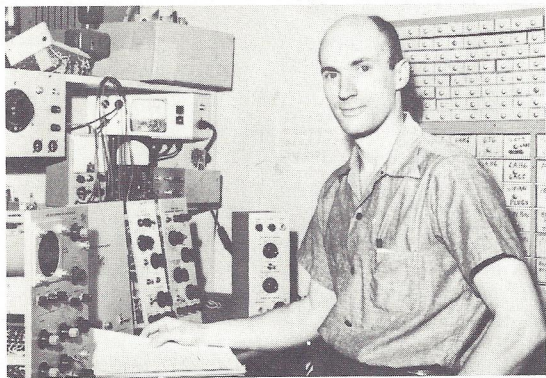


TEK TALK



VOL 2 NO 4

MAY, 1953



Dick Ropiequet

Story by Marion Arnold, et al

This month we introduce RICHARD L. (DICK) ROPIEQUET, the engineer in charge of new products design. Since Dick joined Tektronix (October, 1949), he has contributed many of the advances in our instrument design. He is a person who never seems to tire of trying to make something just a little better. In order to achieve this advancement, he demonstrates originality of thought coupled with eagerness to try something new if it shows possibilities. He frequently gets wound up in a project or caught in one of the 5 o'clock conferences so that his day ends at a late hour as the operator says, "Dick Ropiequet, telephone please" (Eleanor calling to see whether he will be home for dinner). Sometimes we wonder if the more than normal activity within his head is responsible for the less than normal activity on top of his head.

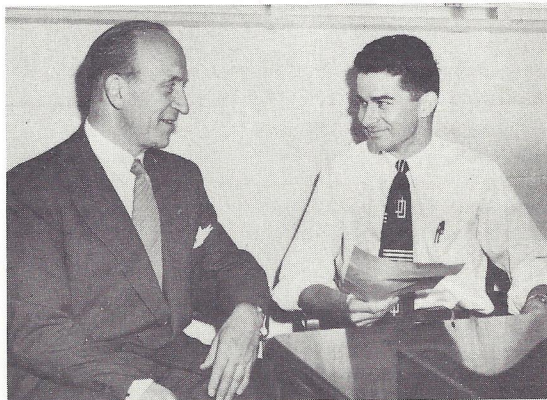
Dick seems to have picked up interests in electronics through a natural sequence of events. Perhaps, it was activated by a stint at Radio Material School at Treasure Island. When completing his studies, the Navy asked (told) him to stay a while longer to teach radio and radar. Prior to this, Dick had accumulated a solid grounding in chemistry,

Cont'd on Page 8

VISITOR FROM NORWAY

Eugen Nilsson, who together with Jens A. Stavnes and Jan Arne Narud, represents Tektronix in Oslo, Norway, stopped off to visit our plant on an automobile tour of this country. He expressed the desire to be quoted in his appreciation of the nice planning, and the fine spirit of friendly cooperation among people at work here. In noting "rapid developments and big improvements" his comment was that it "shows the company is going ahead at a rapid pace, and if I come here again in a few years, I don't expect to recognize the place."

* * *



SCOTTY PYLE, newly appointed head of the export department, converses with Eugen Nilsson of Oslo, Norway. In taking the reins in hand, Scotty will be assisted by MARJ DRAIN, who has been most capably carrying the entire load in bringing our export activity from an initial zero to its present substantial state.

JOHN MULVEY left the Test Department as of May 1st to join the Sales Department as a Sales Engineer in training. After a period of indoctrination and coping with correspondence and field problems, it is expected that John will join JACK CASSIDY, our Eastern Division Manager, as a Field Engineer.



VOL 2 NO 4

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EDITOR Irene Garvey

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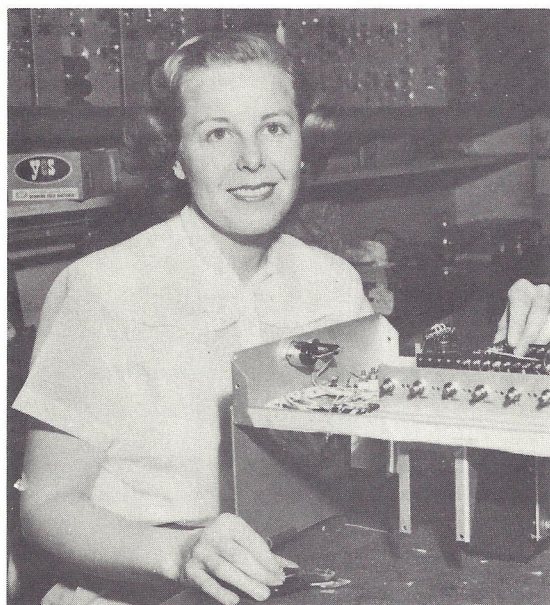
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TEKTRONIX TWOSOME

THE JOHN MATTHEWS

By Helen Walker and Ida May Norby



The age-old theory that opposites attract was again proven true when tall, dark and handsome JOHN MATTHEWS came to work at Tektronix and met pretty blond CHARL BAIL.

They had much in common in that they had each seen a good deal of the country and both served in our armed forces.

John was born in Pennsylvania, the son of an Army man. Due to his father's Army career, John received his education in schools up and down the east coast, and later travel-

ed through practically every state in the Union.

He spent part of his two years in the air force as instructor in their technical schools.

In 1946 John came to Portland, attended Lewis and Clark College and graduated in June, 1951 with a degree in physics and mathematics. His plan when he came to Tektronix that summer was to work for the summer vacation only -- but Charl, as well as the work here, helped change his plans.

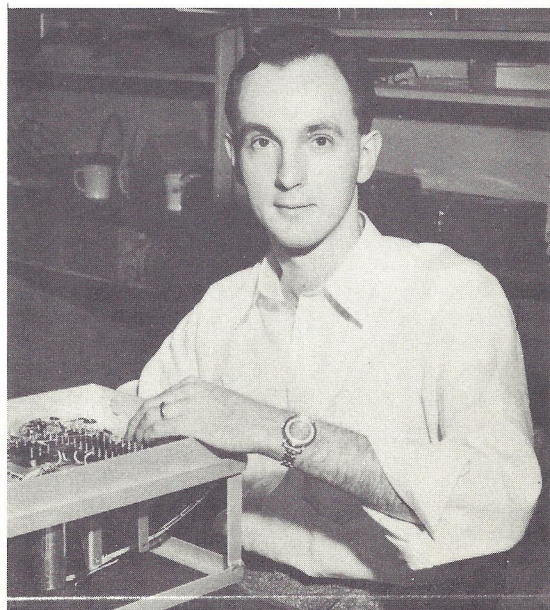
Charl also had migrated to the Portland area from the east. She came with her parents at a very early age, graduated from Beaverton High School and worked for the telephone company and as an electrician in shipyards prior to joining the Navy -- never thought a pharmacist's mate 3/C could be so pretty.

While she worked in the shipyard, a picture of photogenic Charl taken at her work was chosen for entry in a review of Oregon's Most Interesting Snaps.

On her discharge, after one year in the Navy, Charl attended and graduated from the Portland Beauty Academy, and practiced as a beautician for about four years in both Oregon and South Dakota.

Although her health no longer permits, Charl's main interest is in the beauty business and quite frequently we find her spending her lunch time in the lounge making the "fur fly" as she adds to the good grooming of many of the lovely ladies at Tektronix.

Charl joined us in April, 1951 and works on the 513 scope.



John is the dignified group leader of the Specials group.

They were married in August, 1952 and being a typical woman, Charl was late for her own wedding. While John was pacing the floor, quite sure he had been "left, waiting at the church", Charl was at home looking for her shoes.

All went well, however, and Charl and John started on a happy road in matrimony with a honeymoon trip to the coast.

They share much time with their hobbies of tennis, golf, photography, and reading. He also pursues the field of electronics, while she enjoys painting, embroidery work, playing the guitar and singing.

John's supervisory ability is further portrayed as a member of the Board of Supervisors for the Credit Union.

* * *

DARLENE ADAMS is a good girl as good girls go, and as they go she went and bought her mother a Kenmore Automatic Washing Machine with no special occasion in mind except that to her way of thinking "every day is Mother's Day".

* * *

The new Steno in the Engineering Department is **AUDREY DUYCK** who started with us on April 13. Sorry, no phone number.

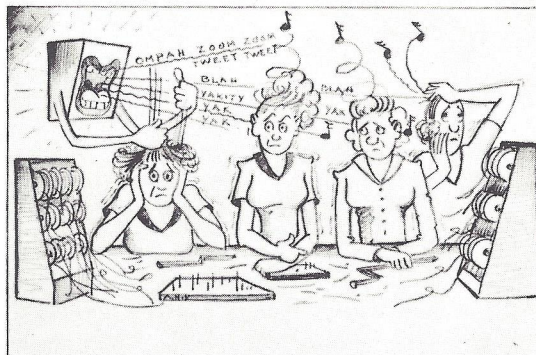
HARLOW LOUCKS, new member of the Printing Department since April 13, came to us from M and F's sporting goods section, and surprised us a couple of Fridays later with news of a 7 lb. 11 oz. addition to his family. Jeffry Harlow was born on April 23rd, and is destined to do "a lot of skiing at Timberline, fishing, hiking and camping" if he is to be just like Dad.

CHARLES RUTTEN, six-foot-three-and-one-quarter-inch bachelor, started with the Shipping Department on April 20, after two years in the Army. Photography is his main spare time interest.

DAVE SPINKS and **MERVYN HENKES** have started their training in Assembly as of April 27 -- Dave from Portland Telephone and Telegraph, and Merv from Crown Zellerbach Corporation.

Welcome back, **LORRAINE MURPHY**. The 514 group was happy to see those nimble fingers fly the morning of April 27, especially in the face of the new quotas.

May 1st brought us happy, smiling **SUE SEELYE** for the Sales Department. When David, age five, and Pamela, age four, allow, Sue utilizes her "spare" spare time by sewing, or square dancing at the club with husband Ed.



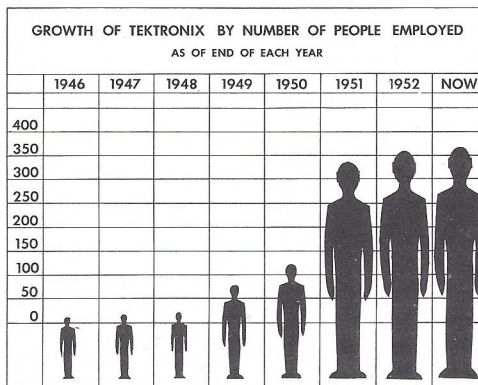
* * *

MANPOWER TREND

Everything points to the advisability of people getting into the engineering and scientific fields. That's the encouraging bit of news brought back by **MILES TIPPERY** from the Western College Placement and Recruitment Association's Third Annual Conference held April 1st and 2nd at the Arizona Biltmore Hotel near Phoenix.

Miles, attending the conference to study methods used by others in locating and hiring technically trained personnel, returned well-rewarded with a number of interesting and practical ideas to be included in our future plans.

Traveling to Phoenix by car through Idaho and Utah with his family, and returning by way of California, Miles was distracted from the personnel question by the scenic beauty, such as at Zion National Park, Grand Canyon National Park and the Joshua Tree National Monument. The traveling Tipperys were also impressed with the multitudes of desert flowers in full bloom, and compared the climate in Arizona in April as similar to our summer weather.



PLASTICS DEPARTMENT

By Vern Bartlett

The need of an odd size knob for the first 315 scope led to the eventual development of our Plastics Department. As the cost of securing custom made knobs from the East was considered prohibitive, it was agreed that we should consider molding our own plastic knobs. **JIM MORROW** was asked to check into the possibilities.

There followed a period of research into types of materials, molding presses, dies, pressure, temperature and myriad other factors, and Jim came up with an answer.

Securing two Porto-Power hydraulic presses of the type used in auto repair and other trades, he set out to adapt them to molding use. With **ART ENRIGHT** making the opening and closing guides, **RODGER JENKINS** the electronic controls, and Jim the heaters, the presses were well underway.

After many other details, Jim began work on the dies which actually form the finished pieces. This required precision machining involving tolerances in some cases of one-half thousandths. The results were several dies, some interchangeable, which now produce the five types of knobs used on the 315 scope, and the new probe. These beautiful products are evidence of the excellent workmanship put into the project.

All this started a little over a year ago. In September, 1952 along came **JIM BOYLE**, whose job was to coordinate the department to a production status. As a metalsmith in the Navy Jim was required to take a course which included plastics. Becoming thus interested, he was determined to have his own business, and three months after discharge, set up in the plastic field under the name of Portland Plastics, his shop located at S. E. 16th and Hawthorne.

During that time Jim made the plexiglass graticules for the 517s and thus became known to Tektronix for his ability in plastics. Portland Plastics manufactured display and utility articles which were sold throughout the entire northwest. After four years in business Jim became shop manager for Bettcher Plastics, holding this position for two years. From there he came to work for us.

When the department was moved to the shop, **HOWARD DANIEL** and **VERN BARTLETT** were chosen to carry on actual production under Jim's supervision. Both men had had previous experience in this field. They now mold all knobs and probes and complete all hand operations before assembly.



Jim Boyle



Vern Bartlett

Howard Daniel

Since this time improvements on the presses have been made. These include a new hydraulic system and controls made by **JIM MORROW** and **ART ENRIGHT**.

The material used in making knobs is urea formaldehyde, a granular powder looking a little like coal dust. When being molded, the material is subjected to a heat of 320°F. and pressures up to five tons. This combination turns it to a plastic, homogenous mass which solidifies to a very hard material in the exact shape of the die in which it is molded. The curing cycle or length of time the material remains in the die becomes critical as the temperature is increased. This means that the presses must be frequently checked for time and temperature, setting the heat to the correct degree and the curing cycle to the exact second. Time, temperature, pressure, condition of materials, amount of material placed in the die are all important factors involved in producing good results.

Probe noses are molded of the same material while the bodies are made of fiberglass reinforced alkyd, a very tough plastic which must be warmed and pre-formed into a cylinder before being placed into the die. As the die closes the alkyd is softened and forced up around the tubular brass insert and the aluminum tag is shaped into the alkyd. This operation creates a plastic "jacket" one-sixteenth of an inch thick on the outside. The new probe is by far more efficient from the stand-

point of production as it is less expensive, more compact, it is insulated, and has a better appearance.

Out of the experimental stage, the Plastics Department is now a going concern, ahead of production demands, and great hopes are held for its future expansion. More dies for scope parts are now being made, and there will probably be even more in the near future.

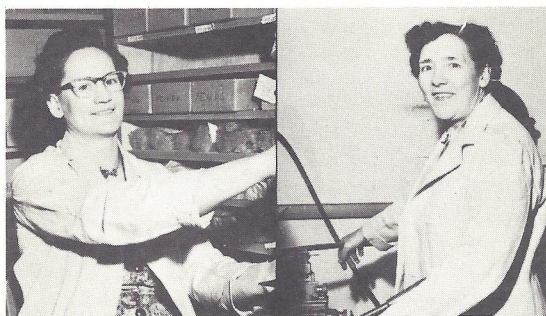
The department is one more testimonial of Tektronix' philosophy, "Why buy it if we can make it efficiently?"

* * *

BAKELITE DEPARTMENT

By Jack Clark

BLANCHE BERG, IDA SMITH, HELEN REED and LUCILLE OVERLAND are the ladies that keep the Bakelite Department humming with the production of the many bakelite items that are important components in the Tektronix instruments.



Blanche Berg

Ida Smith

It is in this department that the bakelite posts, F and I, transformer, neon and resistor boards are made. Over one hundred different kinds of bakelite boards are required for the various instruments. These boards have from two to forty-eight posts, depending on their place in the electronic picture.

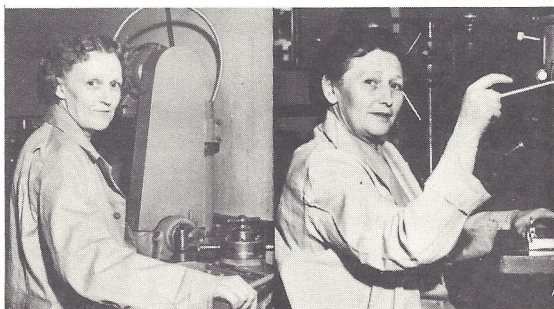
The bakelite material comes in tubes, rods, and sheets, and is stored ready for fabrication as needed. The fabrication processes are aided by almost one hundred jigs of all kinds. The finished boards go to the Assembly Department in made-up kits of the various bakelite units, the kits containing from one to six boards, depending upon the requirements of each type of assembly, such as F and I assembly, sweep output, etc.

Besides doing the sub-assembly of the boards, which requires the insertion of the many CTC posts, BLANCHE also keeps inventories of the units and makes up orders for the bakelite items to be ready when needed.

In the fabrication of the raw stock, HELEN

saws, drills, sands, taps and cleans the material - the cleaning operation accomplished by oiling and wiping.

On the lathes, IDA cuts, drills and taps from forty-five to fifty different types of bakelite posts. She also sands, and drills the holes in some types on the drill press, for the wire openings and escutcheon pins.



Lucille Overland

Helen Reed

LUCILLE makes the many kinds of bakelite coil forms required, doing the necessary turning, drilling and tapping on the lathes. She also assembles the coil forms, ready for subsequent wire-winding operations in the Transformer Department.

Lucille, whose home is in Portland, worked nine years for Superbilt Manufacturing Company as a machine operator and machinist before coming to Tektronix in September, 1951. She has two boys - her hobbies are her sons and oil painting.

Helen came to us in November, 1950. Previous to that she was a homemaker, finding her chief interests in ceramic painting and raising flowers, especially delphinium. She has two married daughters and three grandchildren, and lives in Milwaukie, Oregon.

Ida joined Tektronix in August, 1951 after working five years as a machine operator for Oregon Woolen Mills. She has one daughter, and also makes her home in Milwaukie where her large flower garden shares attention with cooking, skating and bowling.

Blanche started with Tektronix in June, 1952. Like Helen, she was busy maintaining her home before coming to work with us. Blanche lives in Beaverton and has one daughter and four boys. She is interested in outdoor sports, and softball in particular.

This, then, is a glimpse of the Bakelite Department and of the pleasant, industrious people who help keep the stream of bakelite parts flowing to Assembly.

* * *

WANTED: Picnic Committee - turn in your name to your Personnel Committee Representative.

YOUR CREDIT UNION OFFERS

LIFE INSURANCE

Any deposit, up to \$1000 is the equivalent of a life insurance policy of the same amount. For instance, if you were fatally injured tomorrow, your survivor would receive \$2000 for the \$1000 you owned in shares. This insurance is free and automatic, a service of your Credit Union.

DIVIDENDS

Since the Credit Union is a non-profit organization, all earnings in excess of operating expenses are returned to the members in the form of dividends. Credit Unions consistently pay higher rates of interest than savings banks.

LOW COST LOANS

Members who own shares may borrow up to the amount of their shares, using their shares as collateral for the loan. The interest rate on this type of loan is one-half the rate on other loans, if more than \$500 in amount. This transaction permits you to leave your savings intact, you continue to earn dividends on your shares, life insurance (up to \$1000) remains in force, and you also have loan insurance in the amount of the loan.

JOINT ACCOUNTS

Members may open joint accounts with another member of their immediate family. In the event of death of the member, the surviving member receives the proceeds of the account without probate expense.

ESTATE BUILDING

If you don't have \$1000 to deposit, you may borrow \$1000 (or less) and buy shares for that amount, using the shares as collateral for the loan. You immediately have a \$1000 savings account and a \$1000 life insurance policy. Your \$1000 shares start earning dividends, and you have started a systematic saving procedure.

* * *

THE CREDIT COMMITTEE

Your Credit Committee has a twofold purpose -- service and safety. To the borrower it must be liberal enough to do good and sufficiently conservative not to harm the member or endanger the solvency of the Credit Union. If the Credit Committee is too liberal, the member may become hopelessly involved in debt and the Credit Union may sustain

serious losses. If the Credit Committee is too strict, the members may obtain little service and the Credit Union may suffer from lack of earnings. Theirs is a difficult task, not often met with understanding. To accomplish their purpose of service and safety, they need information on the purpose for which the loan will be used and on the borrower's ability to repay. Here the Credit Committee is in a position to offer valuable service helping the member to help himself. As an aid, the committee sometimes suggests using a financial work sheet to assist members in planning their savings, spending and borrowing. A copy of this work sheet is available from your Credit Committee if you desire to plan wisely. Probably in no other place are finances handled so carelessly as they are in the home. Your Credit Committee members strive to merit your confidence -- theirs is a role of service.

* * *

LOOKING THRU THE CRYSTAL BALL

This is NOT the time to BUY or to BORROW TO BUY. Prices are dropping, and in a few months you should get more for your money. Here are several reasons why:

Farm prices started down in February, 1951 and are still dropping.

Farm Index	1951 -- 312
	1952 -- 288
	1953 -- 264

Thus, food prices should continue their downward trend.

Appliance prices should come down. Production is at high level and sales are declining despite intensified sales promotion.

Used car prices are zooming downward because production is high and used cars are piling up. Credit sources are tightening their belts which will further push prices down.

Housing prices are dropping. The trend of lower prices on homes is expected to continue and by 1954 you should get your money's worth.

Now is the time to pay up your debts and start saving -- to be in a position to buy at bargain prices within two years.

* * *

A dinner party at Henry Thiele's was enjoyed by the Credit Union officers, directors and committee people for the purpose of becoming better acquainted and exchanging thoughts on extending their service to members. Arrangements were made by JANE GRACE, secretary on the board of directors.

BONNETS AND BOOTEES

Oh, happy daaaay -- was May 3rd when a new boy named James Richard arrived to make life even more interesting for Agnes and CHARLES (Sandy) SANFORD, proud and happy parents of little Raymond, Sue and Nancy.

BUD SIEGEL of Shop, somewhat fatigued but truly happy, announced the arrival of his son Steven Philip on May 9. Baby Steven weighed in at 6 lbs. 14 oz.

IVAN ARNOLD of Shop happily announced the arrival of Fredrick Bert just before dawn on May 9. The boy is starting off life in the heavyweight division, weighing 10 lbs. 3 oz.

Karen Marie Vistica came for dinner at 12:15 p. m. on Mother's Day and will stay indefinitely with the JOE VISTICAs. She weighs a nice chubby 7 lbs. 15 oz. Joe, you're outnumbered -- you'll take frills and like them.

* * *



* * *

'Twas the luck o' the Irish with her no doubt when SALLIE McGUIRK attended Columbia Prep's Carnival on April 23rd and held the winning ticket on a fur coat. Feeling like she should leave at least a token amount at the carnival to help defray costs, Sallie invested in bingo games and came away with a crate of oranges, an apron, a vase, passes to the Broadway Theatre, Italian hand-embroidered pillow cases -- and eleven chances on a car. No, she didn't win the car.

TEACHERS VISIT TEKTRONIX

Tektronix was host to a group of twenty school teachers on April 29 in observance of Business Industry Education Day in Portland. The day is set aside each year to enable business people and those in the educational field to meet for the purpose of acquainting the Portland school system with the various industries. Visits are exchanged annually -- one year educators visit commercial and industrial plants, and the following year people from business and industry visit the schools.

The morning's program included a tour of the plant, then luncheon with the teachers as guests of Tektronix at Berg's Chalet. The afternoon was devoted to a discussion session and talks given by HOWARD VOLLUM explaining the oscilloscope, BOB DAVIS featuring the production setup, DAL highlighting our sales operations, and MILES on personnel methods.

The visit provided the teachers an excellent opportunity to see the people at work, to ask questions, and in general to pick up much more than could have been gained without direct contact. The teachers were deeply appreciative of the very fine attitude of all of our employees in answering questions and making the visit by the teachers worthwhile.

* * *

ENGAGED

MARYELLEN ANDREWS has finally said "yes" to LES STEVENS, and their engagement was announced on April 11. The wedding will be held on June 19 at the Grant Park Baptist Church. Lucky boy -- happy girl.

WED

Gladys Hutonen and DICK MACNEILL of Test were married Saturday afternoon, May 9 at Stevenson, Washington. Congratulations, Dick -- may you and Gladys be very happy.

MESSAGE DELIVERED

All Taft High School science students, observing Career Day on April 24th, heard DON KEPLER speak of Tektronix and the electronics industry. In his talk he went into the history and growth of Tektronix, our production setup, the what and wherefore of our products, the future of the electronics industry as a whole, and the training and qualifications required to advance in this field.

In pointing out the ever increasing need for trained engineers to keep up with the rapid growth of the industry, Don left the young people with much food for thought.

Dick Ropiequet....Cont'd from P. 1
physics, geology and mathematics. Chemistry is his major in scholastic credits (Bachelor of Science, University of Illinois).

At the Firestone Plastics Development Laboratory, Pottstown, Pa., where Dick was employed from November, 1946 to May, 1949, his knowledge of both chemistry and electronics involved him in the development of electronic test and production equipment used in plastics development. Some of the projects involved were the development of dielectric heating equipment for making seams in plastic sheeting, work with electrical grade plastics and with material for phonograph records.

Among Dick's first projects at Tektronix were a series of special instruments developed in cooperation with the University of Oregon Medical School, for use in studies of the nervous system. As word of their usefulness spread in medical circles, other requests were received and continued customer interest prompted Dick to further develop them. These instruments, now in production as the Types 122 Low Level Pre Amplifier, 160 Power Supply, 161 Pulse Generator, and 162 Waveform Generator, are finding many new research applications.

For the past two years much of Dick's well utilized time has been devoted to the design of a new type of time base (sweep) circuit. This circuit embodies many novel features which provide a high order of accuracy and linearity, as well as very wide range and simplicity of operation. The Type 315 scope is our first instrument to use the "Ropiequet" sweep.

His unusual ability to visualize the functioning of complex circuitry and a willingness to help others with their problems have made Dick highly appreciated as head of the new products design section.

Dick is a man of many interests and enthusiasms. Top on the list is his family and home. His lovely wife, Eleanor, exhibited quite some pride when giving us some of this information. She charmed him into catching her in only two months after he came to Oregon and is delighted that he prepares the waffles each Sunday morning. The young Ropiequets are Donald, age 2, and Mark, age 1, each a pride and joy -- most of the time.

Realizing that two lively little boys soon grow into two lively big boys, the Ropiequets have been busily dreaming up a plan for enclosing more space at 2645 S. W. Austin Rd. They hope to perfect their plans and be ready to start work by (bye, bye) bonus. Dick is combining his interest in horticulture with

his knowledge of design and composition to create a delightful garden setting for their home.

Dick's other interests are many and varied. He is an accomplished pianist, swimmer, golfer, tennis and basketball player, artist, and furniture maker. He is also an enthusiast of photography, hiking, bowling and choral singing.

* * *



BARB EKSTROM, wiring the 517 Amplifier, and PEGGY WHOOLERY on the 315 Sweep as they appeared in Meier and Frank's window during Oregon Products Week.

* * *



GEE, TRONIX, THERE'S ANOTHER GUY FROM THE FRONT OFFICE THAT AINT GONNA MAKE IT TO THE NEW SHOP...

* * *

Things are picking up in the Receiving Department -- BILL DEGNER makes light of the heavier equipment received now that he can pick it up and move it around the plant with the new battery operated fork lift. The entire lift weighs 2500 lbs., 1600 lbs. of it all battery. (Net weight, not including Bill.)