

Librascope Employees Donate To Red Cross Bloodmobile

Librascope employees, under the auspices of "The Precisioneers," donated a total of 108 pints of blood to the Red Cross Bloodmobile unit which set up business in the park just east of the plant early in March.

The record fell a little short of last year's donation but was due to a high incidence of rejections because of colds rather than any lack of willing donors. The Red Cross people screened prospective donors closely, and rejected any who were not in tip-top physical condition. Their highly efficient staff operated quickly and painlessly; most people even found it pleasant, what with coffee and fruit juice and a comfortable place to relax. By the same token, the Red Cross people remarked upon the cheerful attitude of Librascope employees as compared with other groups.

As was reported in the last issue of the "LIBRAZETTE" any employees of Librascope may draw upon the Glendale Red Cross for blood against these deposits, for himself or his immedi-

ate family. No charge is made for the blood and no replacements are required, except for the yearly group contributions to keep the account active.

It is interesting to note that all of the "O" or universal type blood is being flown to Korea in whole form. It can be kept for 20 days, and if unused at the expiration of that time it is made into liquid plasma which can be kept for a year. Liquid plasma can be further reduced to a dried form which may be stored indefinitely without loss, thus utilizing all donations to the fullest extent.

The Precisioneers wish to thank all the people who wanted to give blood as well as the donors, with an especial note of thanks to the company for donating time to the project.

Steel Mills Hobnob With Vineyards

By Red Brown

Shades of Pittsburgh! If it hadn't been for the surrounding vineyards, about sixty Librascope employees would have sworn they had "magic carpeted" to the Steel City. At least this seemed to be the general thought expressed at the recent tour made of the Kaiser Steel Mills at Fontana.

After dining in one of the company cafeterias, a short orientation talk was given by a Kaiser Public Relations man outlining the various processes and equipment which would be seen, and the tour was under way.

Due to the expansive layout of the mills, approx. 1800 acres, we drove our own cars from one installation to another which saved about four miles of shoe leather.

It might be of interest to know that the basic materials used here at Kaiser are from the Far West. As a matter of fact the iron ore itself is mined at Eagle Mountain, California, about one hundred miles away.

Among the things seen were the blast furnaces, which tower some one hundred feet in the air. The blast furnace is the first step in the making of iron and sub-

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Casaba Players Wind Up Season

The basketball season ended with Librascope's team looking up instead of down at the rest of the field, but in spite of the win-loss record, manager Don Cady expressed satisfaction, and pointed to the past year as one of building for the future.

Technicolor edged the field, followed by Collins Radio, Flying Tigers, Bendix, P.A.C. and Librascope in that order. The Flying Tigers proved to be "Cousins" for our boys, reuniting for the lone win registered by our hard working but inexperienced team.

Showing marked improvement with each game the team has great promise for next season and made a very creditable showing for the past year especially since it is the first time Librascope has fielded a basketball team.

Finishing the season were Carl Frain, Ronnie Freda, Dick O'Connor, Bob Bible, Wilmer Young, Bill Sorenson, Al Aiken, Joe Strange, Ed Bell, Jack Perry and Russ Erickson. Colleges and Universities might note: no change in the coaching staff is contemplated.

New Boring Machine Cuts Costs; Speeds Production

Necessity is often the proverbial "Mother of Invention." Sometimes that "invention" develops into an object which proves not only very useful but possesses commercial value as well. Such is the case of the Librascope Boring Machine which we are spotlighting this month, a machine which is in constant use in our own shop and which we have built and sold in sizable number for other manufacturing firms. In competition with equipment made by regular machine manufacturers our boring machine has a number of advantages all of which mean a better product at a lower cost.

Actually the boring machine is not a sudden invention but like "Topsy" it grew as a series of developments. The history of the machine dates back to the time our company was starting to build a particular computer. The "necessity" part of the story deals with requirement of accurately bored holes in the computer's castings. Using a Bridgeport Milling Machine, quite a familiar sight

in our machine shop a retractable index pin was first designed as a mill accessory. Using a simple template to spot hole locations with pilot holes matching the index pin size, the castings could then be turned over on the Bridgeport Mill table and the boring completed from the opposite side.

After this mill adaption had proven very satisfactory it was discovered that the mill table was inadequate in size. The next step in the evolution of the boring machine was to devise a table top larger in area which could be conveniently clamped in place on top of the existing smaller table. Then, as still another step forward, a special adapter was built to work with high-speed mill heads and take an adjustable boring bar also of Librascope's own design.

These boring bars can be set by micrometer to any predetermined size. In use, the hole positions in a casting are spotted accurately through a master template using index pins. Next the boring bar adapter is fitted to the milling head and boring bars inserted. Two bars are used for each hole size, one a "roughing" bar of slightly smaller diameter, roughs out the hole, then the "finishing" bar is inserted which quickly brings the hole to exact dimension.

Before devising this boring bar adapter it had been necessary to

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New Oscilloscope Aids Study of Transient Electrical Phenomena

Electronics is very proud of the new piece of test equipment which they recently acquired: a portable cathode ray oscilloscope. The cathode ray oscilloscope uses principles familiar to us from the television picture tube. A beam of electrons emitted by a heated cathode

is focused into a thin ray in a fashion similar to the focusing of light rays by means of optical lenses. The electron ray is deflected by electro-static fields so as to produce on a fluorescent screen a faithful reproduction of the current or voltage wave shapes which create the fields. It thus becomes invaluable in the study of transient electrical phenomena. The high frequency range of the instrument permits close examination of extremely short sharp-fronted pulses, study of synchronizing and deflection circuits and pulse generators, and other electronic devices which are used in our computers.

This instrument is especially valuable for our new digital program because it has an accelerating potential of twenty-four thousand volts and a sweep speed as short as 5/1000 of a microsecond per centimeter. Phenomena occurring in times as short as five milli-microseconds may be photographed on a special camera attachment.

Credit Union Slated Soon

Coming soon—An employee's Credit Union! Plans are now in process for the establishment of a Credit Union at Librascope.

For those of you who haven't met a Credit Union face to face, the primary purpose is to enable members to save and to make loans to one another, thereby permitting the group to benefit by its own transactions.

A successful Credit Union can have interest rates considerably lower than bank rates and the return on invested money can be higher than many other types of investment.

Watch for more details in the March paper.

Enthusiasts Form Dig That New Stamp Club Crazy Guard!

The "Precisioneers Stamp Club" was officially organized last month at a meeting at Elmer Lehman's house. The philatelists celebrated their new organization by sending for first day covers of three new issues of U.S. three-cent stamps.

Cesar Goldstein hosted the first regular meeting of the club on Friday, March 6th. At that time, Moe Lehman was elected club treasurer and correspondence secretary. Discussion at the meeting centered around the different types of stamp albums. It was also decided at that time to subscribe to an official stamp magazine for club interest and use. Packets of stamps constituted the prize list during the evening's entertainment.

Philatelists of all ages are invited to attend the "Precisioneers Stamp Club" meetings which are held at 7:30 p.m. on the first Friday of each month. The 'where' of the meetings will be announced on the bulletin boards.

Recent tightening of Security regulations has made some employees wonder if the Company isn't being too severe.

Actually, a plant like Librascope which has been expanding and which is working on classified confidential contracts is a serious and continuing Security problem.

It would perhaps be nice if there were no regulations and we were free to come and go as we please. Unfortunately, as members of a group we must all sacrifice a little of our own individuality to the benefit of the group.

Security is like this and when a guard asks to see your badge or to look in your lunch box he is not trying to be nosey, he is following orders which comply with a general pattern of Security for all of us.

RETURNED HOME

Robert, son of Thelma Snyder (Marking Machine Operator) returned home March 7 after a two-year hitch in Japan.

Keep a Sharp Eye, Men! You Can't Fool The Inspectors

Without a genuine "quality" attitude, even a modern, well-equipped inspection department cannot assure any degree of success for a firm's quality-control program. This attitude has to be reflected throughout—from top management through to every man and woman in the department. At Librascope, Mr. "Quality" works every shift.

Under the supervision of general foreman Paul Metzger and assistant foreman Eddie Dobstaff, Librascope's Inspection Department makes full use of over \$200,000 worth of modern inspection devices, several of which are certified to millionths of an inch. A sampling of these highly accurate devices would include the Sheffield Light-Wave machine for checking ground diameters and thicknesses; the Brown and Sharpe Light-Wave machines which have an accuracy of .00002; the Carbide Gage Blocks ground to an accuracy of .000004; Baush and Lomb Microscopes for measuring tools, thread angles, tooth forms to one ten-thousandth of an inch.

The above-noted equipment, along with many other special test gauges and instruments, are used by the inspection department to insure the accuracy of all those parts which go into the final assembly of a Librascope product.

The travel itinerary of a typical part through the Inspection Department would go something like this:

Upon the receipt of an order for a Librascope product, say a Computer Mark 42 for example, the

necessary blueprints are forwarded to Tool Design and Methods. The methods group writes operational sheets for each part to be manufactured; the tool design group designs all necessary tools for manufacture and inspection of castings. These tools are made and inspected one hundred percent by the tooling inspectors, John Veytia and Andy Bonanno. After inspection, the tools are tagged and stocked for tryout. The tools are soon put to work inspecting the first piece castings. If the castings are found to be satisfactory, the foundry is given the o.k. to pour the remainder of the order.

A main frame casting, on its journey through the shop and in-

spection departments, would first go to the milling machine. A surface plate inspector would then inspect it to check the thoroughness of the milling operation. From the surface plate inspector, the casting would go to the drill press section for special boring machine work and final boring by the jig borer. Again, the inspection department takes it over. All hole locations are checked again, a double-check against possible tooling errors. If the number one casting checks out the main frame castings are run, using the boring machine itself for maintaining the correct hole

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New Skills Mean More Pay

Due to our increased demand for employees trained to meet Librascope standards, and to prepare employees for advancement into positions of higher rate and classification, a new "On the job training" program has been organized.

Discount Deals

Check with Eileen Brown, Precisioneer secretary, on the following deals:

Three cents off on Richfield gasoline.

Fifty per cent off on colonial type lamps with custom shades.

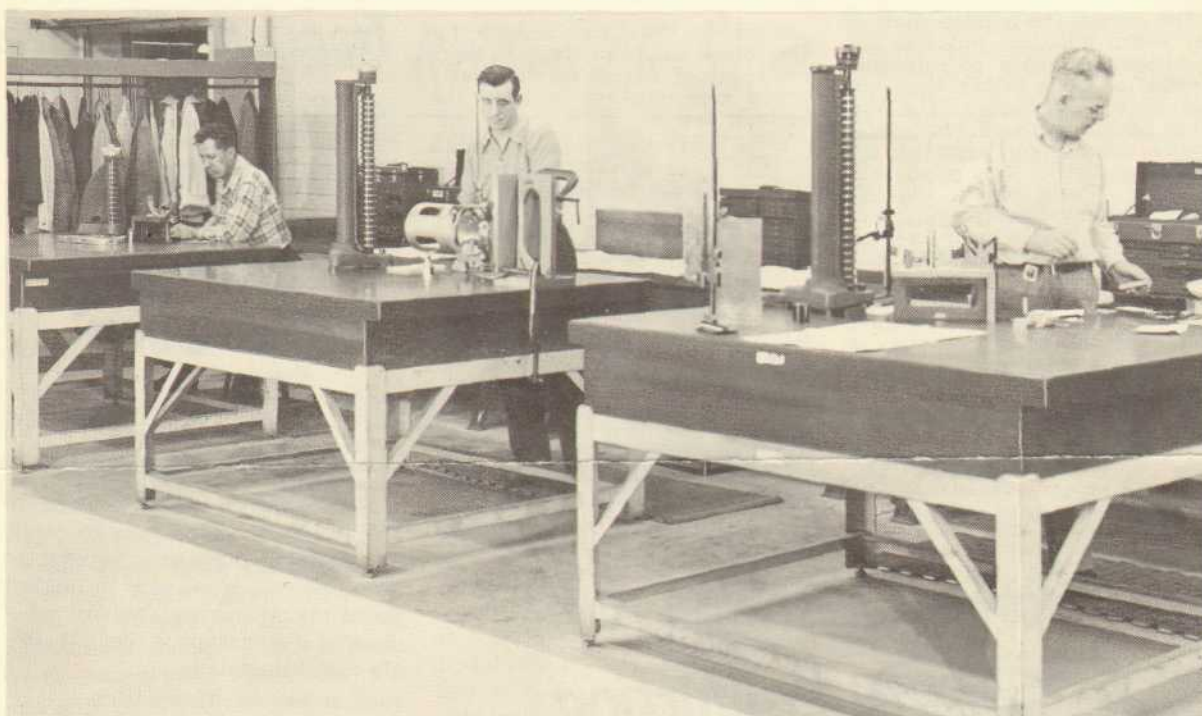
Thirty-seven cents for pure linen dish towels.

And don't forget our deal on Zenith TV and radio sets. Eileen has a new catalog.

GRANDFATHER FIFTH TIME

Fred Killips, assembly stock room, was a grandfather for the fifth time early this year.

Surface Plates In Use



Thomas Ryder from Insp.-Parts to Inspector-Gauge.

Leone Sahl from Assembler-Final 2nd Cl. to Assembler-Final 1st Cl.

Marjorie Gray from Assembler-Final 2nd to Assembler-Final 1st Cl.

Willard Mather from Assembler-Final to Adjuster.

Hildegard Foresterer from Dept. Clerk to File Clerk.

Elmer Blake from Adjuster to Ass't Foreman-Adjusting.

Lawrence Lichtenstein from Stockroom Clerk to Dispatcher.

Thomas Pinkston from Oper.-Milling Mach. to Mach.-Milling Mach.

James Gaines from Burrer to Maint. Mech. Helper.

Francis Strange from Burrer to Expediter.

Assembly Notes

John Morrison, Assembler on the Mark 5 line, appeared puzzled when his fellow workmen congratulated him on his recent marriage—why? He has been married 13 years.

Willard Mathers, of Adjustment Dept., has also earned congratulations on becoming a new "papa." Baby Bruce arrived February 18.

Have you noticed all the nice work tables the Mark 5 line is displaying?

Lending Library

The following list of books have been missing from the "Precisioneer's" lending library located in Engineering Department. Prompt return of these books would be appreciated as many employees are waiting their turn to check them out. Let's keep them moving.

"The Sojourner"

"The Doctor & The Corpse"

"The Big Change"

"Mid-Century Journey"

"The Silver Chalice"

"Point of No Return"

"Lucy Carmichael"

"My Cousin Rachel"

"Rampart Street"

"U.S.A. Confidential"

"The Davidian Report"

"The House of Earth"

"Lucinda Brayford"

"Complete Book of Etiquette"

"Winston Churchill"

"Romantic Lady"

"The Caine Mutiny"

"Cutlass Empire"

"Joy Street"

"Your Dream Home and How to Build One"

"The Vixens"

Off the Top

Company to benefit, the creation cannot be merely in the form of an idea, or a design, or a laboratory working model. A market, a demand, and a practical usefulness must be created along with the idea. The production cost must be low enough to encourage the demand and market. Quality standards in appropriate production quantities must be sufficiently high to establish practical usefulness with a minimum of service requirements.

There have been some recent cases where automatic computing and control machines were designed and built at great cost. The original idea may have been considered a brain storm but the device failed miserably at having practical value because it could not be kept running even with large crews of service technicians.

On the other hand, the dependability record and reputation of Librascope products has been high and we must realize the importance of this record and reputation, and jealousy guard it. We have all played a part in bringing our Company to its present high position and we must all meet the challenge of forging ahead of competition through the creation of new products.

Restating—This creation is not

complete until it has been proven that the product can be produced in appropriate quantities—maintaining high quality and dependability standards—at a low enough cost to meet customer requirements. From an economical standpoint the device must be truly useful in doing the work it was designed to perform. It may appear that this statement is directed to commercial and industrial applications. Most assuredly it is, yet the same applies to the military work we will be doing in the future. The contractors that supply the most dependable equipment at the lowest cost will continue at present or increasing rates of production.

Viewed from another angle, there is no department or job in our Company that is not important to our progress. Otherwise that department or job would be eliminated. The accountant may feel removed from the "firing line" but accurate record keeping is absolutely necessary to establishing and controlling costs. The removal of burrs from castings may be a tedious operation but a small metal fragment which eventually loosens and lodges in a ball bearing can easily stop a whole machine at a critical time. The maintenance man may not realize

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PROMOTIONS

Billy Hargett from Stockroom Clerk to Assembler-Final.

James Grieves from Oper.-Milling Mach. to Mach.-Milling Mach.

John Kershaw from General Helper to Dispatcher.

John Weedn from Inspector-Parts to Wireman.

Rostron Cronia from Burrer to Operator-Drill Press.

John Constable from Mach.-Spec. Drills to Mach.-Radial Drill.

Amos Scott from Burrer to Oper.-Drill Press.

Bill Greer from Material Cont. Clerk to Production Scheduler.

Charles Freeman from Cost Clerk "A" to Timekeeper.

Joe Williams from Parts Inspector to Insp.-Surface Plate.

Bill Goeppinger from Insp.-Electrical to Adjuster.

Joe Freiberg from Insp.-Parts to Insp.-Surface Plate.

Al Akins from Ship. & Rec. Clerk to Production Scheduler.

Jack Perry from Toolcrib Attendant to Tool Coordinator Clerk.

Vern Mayclin from Insp.-Parts to Insp.-Surface Plate.

Ed Riddell from Oper.-Drill Press to Mach.-Drill Press.

Joe Hammer from Janitor to Painter.

Elizabeth Eyraud from Burrer to Oper.-Drill Press

Voyle Sipes from Production Scheduler to Load & Cost Coordinator.

Tony Noriega from Expediter to Ship. & Rec. Clerk.

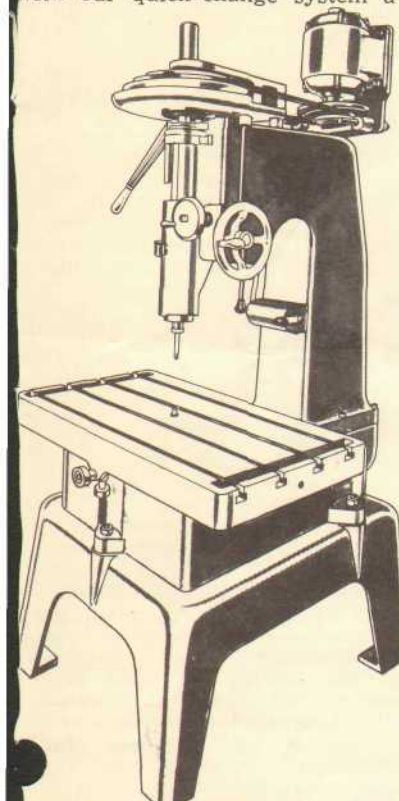
Joe Wilson from Maint. Mechanic to Toolroom Machinist.

Bill Shindle from Dispatcher to Coordinator-Dispatching.

Marie Russell from Department Clerk to Material Cont. Clk. "B".

Boring Machine

reset the boring bar for each individual hole in the casting, a labor-devouring and time-consuming task to say the least. Now with our quick-change system a



large amount of time is saved on each casting plus the fact that human error in mis-setting a boring bar diameter is greatly eliminated.

At this point our designers said, "To heck with designing new gadgets for our Bridgeport mills."

So speaking, they designed the Librascope Boring Machine incorporating all of the developments outlined thus far plus a few newer innovations. For example our boring machine has a travel of 7 inches compared to that of 4 inches for a Bridgeport.

Outside of a few minor changes, today's boring mill of our manufacture is essentially the same as when it was first developed—a really rugged machine with a smooth power feed. With it, tooling costs can be sharply cut through the elimination of costly drill pigs. Our use of the template with its identically sized pilot holes fitting the index pin makes drill jigs passe. Inspection costs are greatly reduced. Previously it has been absolutely necessary to set-up each casting on an inspection table and check each hole for location and size. Now the job is greatly simplified. With our use of templates made on a jig-bore, the hole position has to be checked only once since it is not a variable factor. On the finished casting only the hole diameter need be checked, usually requiring the use of simple "Go" and "No-Go" gages.

The initial saving is such that production jig boring can now be had by a manufacturer or machine shop at about one-third the cost in machine investment. A further saving can be safely made in using labor of less skill. Special job training previously necessary for jig boring work is eliminated. The Librascope Boring Machine is the brain child of many minds all with one common purpose; doing a better job for less money. It is one more product that will help create commercial respect for the label "Made by Librascope, Inc."

KAISER STEEL TRIP . . .

sequently steel. Here the iron ore is mixed with limestone and coke, which under great heat reduces the iron ore to pig iron.

Following this step the "pig" was further refined in the open-hearth furnaces. Here we saw what is probably the common conception of a steel mill. The workers were standing in front of the open-hearth furnaces shoveling in the various ores as if they were actually stoking the furnaces, and the intense heat and light was throwing great shadows of the men on the wall opposite.

CIGARS AND CANDY

Cigars and candy were passed around by Milan Georgeff on the birth, February 16, of his second child, Alan Joseph. Mother is doing fine following an emergency cesarian delivery.

ED HIRT MOVING

Ed Hirt (engineering) and his family are moving into their new home, at last. Better than a trailer, isn't it Ed?

The LIBRAZETTE

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STAFF

Jim Lewis, Editor
Juanita Delle Fave—Drafting
Jay Wiltzie—Engineering
Doris Appleby—Machine Shop
Patricia Swope—Patents
Bernadette Johns—Accounting
Max Goshin—Machine Shop
Keith Kinnaird—Publications
Mac McKeague—Personnel
Wally Tyler—Assembly
Carmen Parks—Machine Shop
Dick Hastings—Personnel
Carl Culver—Assembly
Arlene Hesse—Inspection
Chuck Tylersmith—Machine Shop

After the maximum refinements of the open-hearth furnaces had been reached, a hole was burned through the fire brick in the rear of the furnace (this is called tapping the furnace) and the steel was withdrawn and ladled into ingot molds which hold from four to ten tons of steel.

Next, another breath of fresh air and an eyeful of cinders, followed by a drive to another building which houses the "soaking pits". Here the ingots, having been removed from their molds, are heated for several hours until they reach a consistent temperature throughout so as to facilitate rolling. Upon removal from the soaking pits the ingots are rushed individually by small rail cars to the blooming mills. Here the ingots are taken two at a time and swaged, then rough rolled into slabs or blooms, as they are called, approximately four inches thick by two feet wide by forty feet long. From here a portion of the blooms are sent to a smaller rolling mill where bars, rods and structural shapes are rolled.

These rolling mills were the last stop on our most interesting tour. It might be stated here that the Kaiser Steel people were most considerate hosts and everyone enjoyed a most educational trip.

HIDE YOUR SHOVELS!

Hide your shovels! Don "Shovelbuster" Utic is on the loose. Don, on borrowing a brand-new shovel from Milan Georgeff, proceeded to work so furiously that the handle snapped through completely.

STEWARTS IN NEW HOME

John Stewart (drafting) and family have moved into their new home in Sun Valley. Moved in, but not sorted out, is the way John puts it.

Math, Grapes, Song — 'Omar' Whitcomb

If you have ever noticed a large and burly engineer chaffering a large and burly pipe, with a notebook tucked under his belt like a piece of stomach armor, while shading himself with an umbrella-like thatch of dark bushy hair, the chances are great that you have seen "Rapid Robert" Whitcomb slowly hurrying to the scene of trouble.

A member of the Project Engineering staff, "Rapid Robert" currently serves as Liaison Engineer and general trouble shooter, a capacity to which he is well suited by virtue of an amiable disposition, a keen mind and a broad and excellent engineering background. He has the happy facility of going quickly to the crux of a problem, choosing and putting into effect the proper solution with a disregard for red tape that amounts to mad abandon with none of the physical or overt aspects of mad abandon. Bob epitomizes the proverb of haste making waste and is living proof that action need not be accompanied by flurry. "Deliberate" describes his speech and movement and earns his nickname "Rapid," but the prodigious amount of work he manages to accomplish tells an entirely different story.

Robert L. (for Llewellyn?) Whitcomb made his first stately bow to the world from the south slope of a hillside in Indiana to the avowed accompaniment of wailing banshees, black cats and bats on a bleak November night in 1915. The elder Whitcomb being given to military pursuits, the scene quickly changed to the east slope of a hillside in Virginia overlooking Camp Lee and thence to an unfortunately flat and barren plain surrounding Ft. Leavenworth, Kansas. However, by the time the Happy Hoosier was sipping his first heady draughts of knowledge, he was safely re-ensconced in his own friendly Indiana. He proved to be an outstanding student, excelling in every field. For instance, at a time when other young boys of Robert's acquaintance were beginning to think of girls, Robert had been thinking of them for years. When finally poured from the cornucopia of primary education, battered, disheveled and with every feather ruffled, there was a 97

Wedding Bells Ring For Little 'Lu Lu'

Wedding bells for Louise Hardiman (Section Sec'y.) and Peter Gregorwicz, March 14, 1953 in Las Vegas, Nev. Following a brief honeymoon, the couple will return to Glendale, where the groom will continue his studies at Cal-Aero. Louise will continue to brighten things here at the plant. Preceding the marriage a bridal shower was given in her honor by her friends and co-workers.

Question Confuses So Does Answer

"To what tolerances are you accustomed to working?"

The answers to this question screen job applicants better than you'd think according to the personnel office.

One hopeful operator answered "Pleasant," (this was a woman). Another, a man, said he "got along with most anybody."

How about your tolerances?



Robert L. Whitcomb

average firmly clutched in what was by this time a large and hairy fist. Robert was mildly disappointed. He admires perfection.

Even at this time he was showing signs of becoming that strange phenomenon, that exception to the rule, a literate technical man.

Large of frame and sinew, our Bob was off to pound upon the boilers of Old Purdue. During his four years of co-education at this fine old factory for engineers Bob worked off excess youthful exuberance by throwing the weights for the track team and swimming everything from the 40-yard dash to the 1500-meter free style event. When a little further diversion seemed indicated he would indulge in a quiet pastime called water polo. Briefly, water polo is an underwater barroom brawl. In addition to sports, and the heavy academic burden of an engineering course, Bob found time to excel in literary pursuits as well. He wrote plays, short stories and verse and edited "The Scrivener," Purdue's student publication. His efforts were culminated in 'his senior year by sweeping the field in the literary contest, coming up with two large loving cups and a cash award, plus the offer of a junior assistant under-editorship with the Chicago Tribune.

Now it happened that Carl Sandburg, the great contemporary poet and a fond son of the Middle West was the guest speaker at the presentation dinner, and was further prevailed upon to join a select group of fine young men who were helping our Robert celebrate properly his literary triumphs. It was discovered that each of these loving cups would hold an even two quarts of liquid. The verse was free. Bob maintains that much of the world's greatest poetry is unprinted, and perhaps, cannot even be remembered in the morning.

Ooh - La - La

Along with burgeoning of spring flowers, there has appeared a rash of cigarette holders in the Engineering department. First to head the list is Arlene Drennan (parts listing) and she looks quite elegant using it. Quick to follow suit were: Fred Kirr, Barbara Wills, and Bill Livingston.

Leaving old Purdue, Bob's first love was the construction game and this he pursued from 1931 till 1943. From '35 to '40 he worked for the Northern Indiana Public Service Co., a Utilities Company, while spending most of his time in and near Gary. During this time his interests were as wide as ever. He coached the swimming team at the Gary Y.M.C.A. and widened the foundation of a bridge game that eventually may have caused Culbertson's early retirement from tournament play. True to the literary tradition already established, for two years, thrice weekly and 15 minutes at a time, to the accompaniment of soft music "Our Bob" breathed poetry into a ribbon mike for a northern Indiana radio station. The beating of feminine hearts was as the pounding of the surf off Point Mugu and their sighs were as the sound of the wind tunnel at Cal Tech. He continued to write an occasional radio play and trifled with the Gary Little Theatre, all the while continuing to set forth in tender verse the beauties of his mind which crassly, he occasionally sold for common gold. Who knows! Perhaps another Sandburg or James Whitcomb Riley was lost to the



world through the curse of a cold and analytical mind. When Robert began to calculate his return for literary effort on a per hour basis "His Mission" in life suddenly showed bright and clear before him. He has remained true to engineering ever since. Well pretty true.

Also, by way of justifying his stay in Gary he met the charming and beautiful Miss Dorothy Ferguson. All other girls ceased to exist for Bob. Tenderly and ardently he wooed her by the shore of blue Lake Michigan and late wed her on a far off foreign strand—Texas, that is, where Bob was concerned with building

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PIPE THE GOGGLES —
MATES!! TED WILL BE
SEEING US FOR A LONG TIME



Classified

WANTED TO RENT: 2 bedroom apartment in North Hollywood, Studio City, or Sherman Oaks. Rent to \$80.00. Bill Livingston, ST. 5-5541.

WANTED TO RENT: 2 or 3 bedroom house, prefer Glendale or Burbank. Rent to \$60.00. Arthor Johnson, 4355 Perlita Ave., Los Angeles. Have 2 children ages 10 and 6.

FOR SALE: R.C.A. portable record player; excellent condition, nearly new. Cost \$45.00, sell for \$20.00. J. Delle Fave, 10115 Colwell Dr., Sun Valley.

FOR SALE: Camera and synchronized flash gun. Kodak Bantam F:4.5; Mendelsohn Flash Gun. Price \$55.00. Harold Schwartz, OL. 4780.

FOR SALE: Copper Hood. 70 inches long, polished and clear lacquered. Price \$75.00. J. Harrah, SU. 1-2828.

FOR SALE: Aluminum standard single garage door, complete with hardware. Like new. Price \$25.00. Eloy Barrios, 9647 Lev Ave., Pacoima.

FOR SALE: 1941 two door Hudson Sedan. Good trans., fair tires. Price \$125.00. Jerry Cimino, CH. 9-6676.

FOR SALE: Foreign coins and old U.S. coins, or will swap for other coins. L. N. Dietz, Engineering Dept.

WANTED TO BUY: Standard typewriter, popular make. Mack W. Williams, PO. 6-1381.

FOR SALE: 1949 Lincoln Special, 4 door sedan, Overdrive, Top Rub., Radio, Heater, Seat covers. 58,000 miles. Price \$1325.00. Bill Livingston, ST. 5-5541.

FOR SALE: 1952 Ford Victoria, 9,000 miles, Fordomatic, Radio, Heater, White sidewalls, Directionals, etc. Price \$2350.00. C. Burgis, SU. 2-4272.

Whitcomb Reveals All

magnesium plant in '41 & '42. After a brief period at Oak Ridge, Bob left construction engineering and turned to instrument work &

project engineering with the Austin Co. Special Devices Division in New York City's Battery for four years, then came to Librascope in 1948.

Off The Top

that his function of keeping our plant clean and orderly has a great influence on our quality standards both real and apparent. Good housekeeping influences us all instinctively to do better work—to take greater pride in our surroundings and accomplishments—provides a real effect on quality. The apparent phase is just as important. Most of our potential customers visit our plant and our regular customers are here at frequent intervals. They know that the exacting requirements expected of our equipment could not be met without an orderly approach to every problem. Our mechanisms are complicated and difficult to understand. Therefore it is natural that order, arrangement and cleanliness should strongly affect their opinion of our product's quality.

By Lewis W. Imm

Raffle Winners

Winners of the Precisioners raffle were announced early in March and the results couldn't have been more interesting if they had been planned.

Ruth Chandler, lathes, held the first prize ticket good for a radio-phonograph combination. This was extremely fortunate because Ruth, who already owns one, had always wanted two, she guesses.

It was only natural that a bachelor, Jesse Pemberton, foreman of Assembly, should win the deep fry cooker on the second draw. Third prize winner, Virginia Duncan, payroll, was just being consistent in picking up her wool comforter. On previous occasions she has won sheets and a blanket.

Inspection Department

locations through the use of templates.

The casting goes to the drill press section for topping and counter-boring, then to the milling machines for clearance cuts. Final stop before the next inspection is the burr benches where the casting gets final hand-finishing.

Inspection now checks the frame in its entirety to make certain that it fills every specification. If it successfully passes all tests, it is then sent out for anodizing and painting. When it returns to the Inspection Department, Walter Kletzing makes the final inspection, purchasing or rejecting the casting on the basis of its quality.

If the casting receives Walt's blessing, it moves to the sub-assembly group for installation of pins, bushings, and other permanently mounted parts and is once again inspected before it is ready for the line.

The casting has reached its full "skeleton" stage when it reaches final assembly. Many other parts are attached to it, each part undergoing the same close inspection as the frame casting on its tour of the plant.

When the Mark 42 has grown up about the one frame casting, its numerous parts installed and its cover in place, it is ready for adjusting. Electrical inspectors take over for their preliminary hi-pot and megger tests and careful overall check of the quality of electrical workmanship. This step

is followed by final electrical inspection and a final adjustment and completion of carefully chosen test problems to make doubly sure that the completed instrument will measure up to the customer's specifications.

Nico Borresen, Quality Control Engineer, witnesses all adjustment procedures and final tests and is responsible only to Librascope management and the Navy office for his judgment of the quality of the instrument and the components going into it. When Nico is satisfied, all instruments destined for duty with the services undergo a last complete inspection and spot check of tests under the watchful eye of Bob Summerville, a member of Virg Willis' hard-working Navy inspection staff.

The Inspection Department's "table of organization" includes the following:

Parts Inspectors—12
Tooling Inspectors—2
Gage Inspectors—2
Electrical Inspectors—4
Assembly Inspectors—2 and leadman.
Surface Plate Inspectors—12 and 2 day leadmen and 1 night leadman.

Gear Inspectors—3.
"Mr. Quality" is more than a mere silent partner at Librascope. He was hired especially for his ability to maintain one of the company's top objectives: to sure quality-built products that will yield full customer satisfaction.

Births

Margaret Kirr weighed in at the Huntington Memorial Hospital, Pasadena, at 7 pounds 2¾ ounces, March 18. A first for Fred Kirr, Drafting.

* * *

Dave Harrison, Engineering, is breathing down Jay Wiltsie's (Eng.) and Eddie Cantor's (Hollywood) necks. The Harrisons welcomed their third girl, Robin, 8 pounds 9 ounces, March 18.

* * *

Gilbert Bahr (Foreman, sub-assembly) and wife, receipted for their first boy last February. The Bahrs have two other children, both girls.

Also in the race for most girls is Lawrence "Buster" McKinney, Model Shop, with 5 pound 12 ounce Laura Kathleen representing No. 3, born March 12.

* * *

Grandparents for the third time were Lillian (Cobb) Petrach and Ben, when a third boy was born to Lillian's daughter, Virginia. Both Mr. and Mrs. Petrach are Librascope employees (lathes).

* * *

Gibb Barr, Foreman in Sub-Assembly Dept., is proud to announce the arrival of Dennis Gilbert, born February 19th. Congratulations!

HORACE JACOBS

1515 MURRAY CIRCLE
LOS ANGELES 26, CALIF.