

Royal Precision Plans LGP-30 Promotion

Application Engineers Are Transferred to Royal-McBee

Production has started on Librascope's general purpose computer, the LGP-30, at our Burbank facility, and the LGP-30 engineering applications group has been transferred to Royal-McBee.

These moves mark the culmination of six months of planning by L. S. Crandall, president of Royal Precision Corporation, whose organization will handle LGP-30 promotion.

GPE Stockholders OKay Plan to Acquire Graflex

Graflex, Inc., maker of the famous Speed Graphic camera and other quality photographic equipment, will be the newest General Precision Equipment Corporation subsidiary, as a result of GPE stockholder approval of a charter amendment at a special July 10 meeting.

GPE stockholders approved an increase of authorized shares of preference stock to 1,500,000 from the present 25,000 and the authorized common shares to 3,500,000 from 2,000,000.

Mr. Herman G. Place, GPE president and chairman, said the acquisition will involve an issue of approximately 60,000 shares each of preference and common shares. These shares will be exchanged for Graflex stock at a mutually agreed on exchange rate. Remainder of the shares will be available for corporate purposes, Mr. Place said.

Graflex, a Rochester, N. Y. firm, is an old and respected name in the field of still photography. Mr. Place said in a message to stockholders that Graflex business complements that of certain GPE subsidiaries. He stated that the Graflex management and personnel would be maintained when the acquisition is effected, a policy that GPE has followed since it began its diversification program after World War II.

The report quoted Graflex net sales for 1955 at \$11,310,000 with profits of \$336,000. GPE's net sales for the same period were \$133,338,000 and net income was \$2,513,000.

Buseth Appointed Production Manager

W. E. Bratton, vice-president, operations, has announced the appointment of Harlan Buseth, factory superintendent, to the post of Production Manager.

In his new capacity, Harlan will be responsible for the Machine Shop, Assembly, Adjustment, Methods, Estimating, Tool Design, Tool Room, Machine Maintenance and Production Control.

The Quality Control and Operation Analysis departments will continue to report directly to Vice President Bratton.

Don't miss Librascope's "You and Your Future," broadcast Monday through Friday at 6:55 a.m., over radio station KABC.

Picnickers Will Revel August 25

"Something for everyone" could well be the motto for this year's annual Librascope picnic as the Precisioneers go ahead with their plans for a bigger and better than ever outing.

Sunland Park, just off Foothill Boulevard in the Sunland-Tujunga area, is the site. Saturday, Aug. 25, is the date. Festivities begin at 10:30 a.m.

Jack Nelson, production control, is lining up a topnotch fun and frolic program which should send everyone home in a happy state of exhaustion.

For the children, there will be free pop, ice cream and cotton candy, plus rides galore on the Park facilities. Jack is also planning novelty games for the youngsters which he promises will fill any idle moments they may have.

For the grownups, there will be plenty of five cent beer to quench the thirsts raised by the free pretzels and the contests and games Jack is scheduling.

Aid Club Will Poll Members To Determine Fund Allocation

Officers and directors of the Librascope Aid Club are planning to ballot all Aid Club members to determine allotment of funds to the various recognized charities, Aid Club President Bob Jewett has announced.

At the same time, they are planning a drive to boost employee participation in the Aid Club program from its present 72 per cent of all employees to a 90 per cent or better figure.

Balloting of members to determine Aid Club funds distribution constitutes a major change in the approach to the problem, Jewett pointed out. In the past, the Aid Club committee has had full responsibility for fund allocation. The only exceptions were those funds earmarked for a specific charity by members.

Under the new set up, the responsibility for allocation of Aid Club funds will rest directly with the members.

The plan, as outlined by Jewett, will provide for yearly balloting to determine Aid Club fund distribution. Funds will be allocated according to the following schedule: 20 per cent of total reserved for assisting Librascope employees where need has been established; 70 per cent of total to be allotted to major charities as determined by the balloting; the remaining 10 per cent held as a reserve for unanticipated community needs arising during the year.

Balloting will take place Thursday, July 26. The ballots will list approximately a dozen major charities. Voters will rank these charities in their personal order of preference. Percentage allotments to the various charities will then be calculated based on this preferential voting. Provision has been made for writing in any additional charity the voter may wish.

Those of you who do not now belong to the Aid Club but are willing to join can indicate your desire to do so in the place provided for in on the ballot. The buck or so a month you contribute will never be missed by you (don't forget it's a tax deduction). But your dollar, added to hundreds of others, will provide vitally needed funds for medical research,

for relief from suffering and want, for care and treatment of those afflicted by crippling disease, and for many other worthwhile objectives.

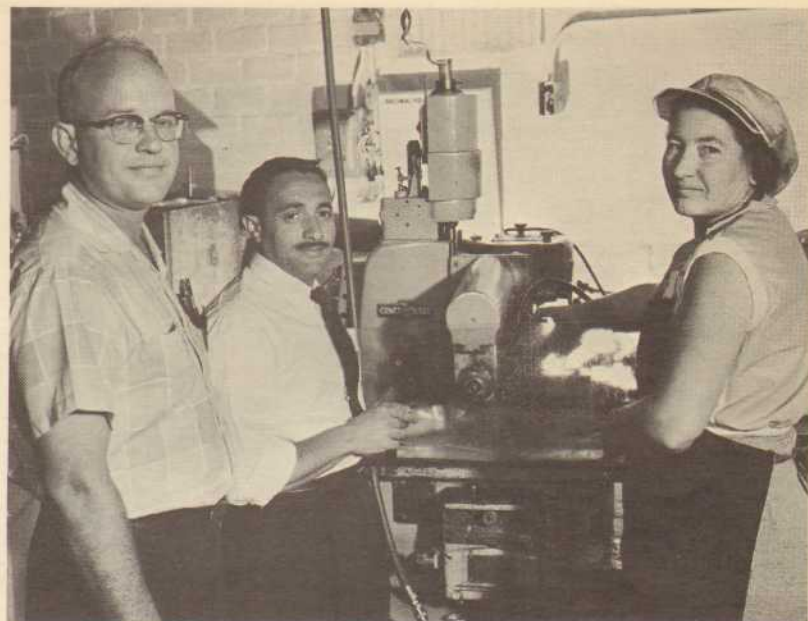
The new plan was formulated by Aid Club committee members in office prior to July 1. Terms of four members expired on that date. They are Jewett, Don Derrington, engineering; Reggie Moore, model shop; and Ross Hazeltine, optical assembly. Members whose terms in office will expire Dec. 31 include Vi Tarbell, accounting; Bob Somerville, engineering; and Thole Isebrands and Ed Grossman, machine shop. Ray McDonald, personnel, is a permanent, non-voting member.

Golfers Tee Up for 8th Annual Tourney

Librascope golfers, their games sharpened by several rounds of match play and their handicaps pared to the bone, tee off Sunday, July 22, in the eighth annual Librascope Golf Tournament.

This year's affair, like last year's, will be held at the Fox Hills Country Club. Dinner, the awarding of trophies and prizes, and the Calcutta auction will follow the activities on the course.

As in past tournaments, golfers will be taking dead aim on the President's Cup, donated each year by Librascope President Lewis W. Imm. Last year's winner, Andy Lee, adjusting, will be back to defend his laurels, but he'll have to do it with a couple of strokes chopped off that 36 handicap he sported then.



CLAMP PRODUCTION IS in high gear at Librascope as a result of standardized design and increased emphasis on tooling. One of the key tooling fixtures in the operation is the splitter designed by Roy Dimon (left). Center is John Delle Fave, tool design supervisor. The operator is Libravet Lillian Petrach. (Photo by Duggan)

New Fixtures Step Up Shaft Clamp Production

"Standards are everybody's business," says Dave Harrison, Standards Group supervisor, and a lot of Librascope employees, from tool designers to field service engineers, are beginning to agree with him.

Take a simple thing like a shaft clamp. We've made them by the thousands, in a variety of designs. The trouble was, we never made enough of any one design to warrant extensive tooling. Consequently, production was low and cost high.

Following several minor crises in clamp production and use, the designers and engineers sat down and took a good look at the situation. The result was that we standardized on the production of two clamp designs where several, in a variety of materials and tolerances, had existed before.

Production Up—Cost Down
The new designs feature a split type construction which facilitates installation in already assembled instruments. The new clamps require more machining operations, have more finished surfaces and the same close tolerances; yet can be produced many times faster, at lower cost, and with far fewer rejections than previously.

Two things combined to effect this revolution in clamp production at Librascope. First, standardization of design permitted longer runs and, consequently, more emphasis on tooling. Second, the split-type design could be produced using relatively simple tools and fixtures.

Once the engineers had agreed on the design, the problem of tooling up for production was passed on to our tool design section.

It's the Key
Key item in the mass production of the clamps is a splitting fixture designed by Roy Dimon and built by Wally Small. Mounted on a standard Cincinnati horizontal milling machine, the fixture is air-powered, hydraulically controlled, and electrically actuated. As a safety precaution, voltage to the two micro switches which control action of the hydraulic cylinder has been stepped down from 115 to 10 volts.



... clamp tapping fixture

In operation, the splitting fixture functions much like an automatic pistol. The operator, whose main duties involve turning the machine on and keeping it loaded, fills a cylindrical magazine mounted on the fixture with clamps to be split.

In its forward cycle, the fixture picks up a piece from the magazine, clamps it in position, carries it to the cutting position where it is split into two identical halves by a 0.030-inch thick saw, ejects the pieces, then returns to pick up a new part.

Day's Work in an Hour
It repeats this operation 20 times a minute, turning out in excess of 1100 clamps per hour, a figure representing almost a full day's production using previous

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golf committee, headed by Ed Sullivan, operations analysis, has come up with a number of fine merchandise prizes. Many of these will be purchased with funds donated by the Precisioneers, the official tournament sponsor. Others were obtained through the efforts of Walter Jobe, Burbank division, and of Marsh Cowan and his boys in the Purchasing Department.

There will also be a number of special events prizes—golf balls in most cases — whose presentation should enliven the evening.

Tee-off time for the first foursome is 11:00 a.m. Ed Sullivan asks the cooperation of all golfers in teeing off promptly and keeping the play moving. Keep your heads down, come out swinging, and we'll meet you on the 19th.

The Whiffer's Trophy, presented to the 36-handicapper who shoots the best gross score, is up for grabs now that Art Curley, time-keeping, has abdicated.

In addition to the trophies, the



PREPARATION AND MAINTENANCE of Standards designed to increase our operating efficiency is the responsibility of the Standards Group. Under the supervision of Dave Harrison, the Group prepares and issues standards applicable to Librascope products and procedures. Current emphasis is on the preparation of standards in the areas of drawings and specifications, where misunderstanding or misinterpretation has existed in the past. Group members are (seated, l. to r.) Lynn Fortina, secretary; Vern Mayclin, and Jim Kay. Standing (l. to r.) are Vern Crooks, gearing specialist, and Supervisor Dave Harrison.

Work of Standards Group Important to All of Us

By MYRTLE GROSS
Librazette Staff Reporter

What is the master key that unlocks the door to mass production? If you were to query one . . . a hundred . . . or a thousand production experts on this point, the answer would be an unvarying "Standardization."

The benefits gained from standardization are most apparent in mass-produced items such as automobiles, appliances and clothing. Equally important, though less tangible, benefits can often be gained through standardization in areas where mass production techniques are not always applicable to the complete item.

Use Similar Parts

This is the case at Librascope, where our production is normally limited to a relatively few units of a particular instrument. In many instances, however, our instruments use similar parts and components. These parts may differ from one instrument type to another in tolerances or materials only.

If standardized parts and components could be agreed upon which could be utilized as "building blocks" in existing and new instrument designs, substantial savings could be effected in production and components could be stockpiled for future use.

Valuable work in this and in related areas is being done right now by our own Standards Group. The Standards Group, supervised by Dave Harrison, prepares standards applicable to Librascope products and procedures and assists in preparation of standards for other GPE affiliates. Its members include Vern Crooks, Jim Kay, Vern Mayclin and Lynn Fortina.

Provide Common Language

Standards, according to Dave Harrison, can help us in many ways. In the area of drafting, for example, they can provide us with a common language. Drawings produced in accordance with the Drafting Standard will be uniform in format, call out, and style no matter which draftsman prepares them.

Designers, by following Design Standards, will avoid duplication of effort and will be able to devote a greater share of their time to new and special areas of design. Shop Standards will supplement the blueprints and will spell out standard shop techniques and requirements applicable to production.

How It Works

To pinpoint it a bit more specifically, let's use a casting as an example. The Design Standard will specify the material to be used and other pertinent design characteristics such as strength, corrosion resistance, stability, and weight.

The Drafting Standard will define requirements for converting design information into a finished drawing. The Inspection Standard will provide the inspector with a yardstick for judging the rough casting and for evaluating the effect of various defects against the end use of the part.



MEMBERS AND GUESTS of the GPE Standards Committee are shown following a recent committee meeting at Link Aviation. Seated (l. to r.) are M. S. Wade, Link Aviation; Librascope Standards Supervisor Dave Harrison, a guest; Rear Admiral Sherman E. Burroughs Jr., chairman, GPE; Otto Kolb, GPL; A. W. Shaterian, International Projector Corp. Standing (l. to r.) R. L. Whitcomb, Librascope; S. Alvine, Kearfott; and L. G. Harrison, a guest, Link Aviation.

The Shop Standards will indicate means of starting machining operations to assure that tolerances on the finished part will be met; will establish finish and tolerance requirements not specifically cited on the drawing, and production details.

More Standards

In addition to those standards already called out, the Librascope Standards Group will prepare several others for Company use. A Materials and Process Standard will provide a record of the materials suitable for our products and of the processes adopted for the manufacture of standard items.

A Components Catalog will provide standards for such repeat items as clamps, spacer blocks and printed circuit amplifiers used in manufacturing Librascope products, and for salable items such as integrators, sine-cosine mechanisms, plotters, and keyboards.

In cooperation with the Purchasing Department, the Standards Group will establish standards for such purchased parts as hardware, resistors, transistors and switches and will assist in compiling sources of supply.

Standard parts and components, whether produced internally or purchased, will be coded to facilitate IBM inventory control.

Formulation of standards, as Dave points out, is a cooperative venture. The Standards Group works with and for the various Company departments in the writing, publishing and maintenance of standards which can lead to higher production at lower costs—a must in today's market.

GPE Standards

Slightly more than a year ago, in May, 1955, General Precision

Payroll Computation Simplified by IBMs

By JOE MESCH
Librazette Editor

Royal Precision

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transferred to Royal-McBee are Fred Flannel, Bud Hazlett and Jack Behr. These men will form the nucleus of the LGP-30 Application Engineering staff. In addition to furnishing assistance in organizing and managing the LGP-30 program, these men will help recruit and train additional applications engineers.

Ultimately, applications engineers will be located in three key locations—one group locally, a second probably in Chicago or vicinity, and a third on the East Coast.

Royal to Contact Customers

Present plans call for Royal-McBee to utilize its more than 300 sales offices throughout the country and its many highly experienced McBee systems men to provide the initial contact with potential customers and to alert the various industries and agencies on the existence and potential of the LGP-30.

These contacts will be followed up by the applications engineers. The engineers will analyze specific requirements of the customer, will determine programming methods and will make recommendations as to accessory equipment needed.

The grey machines arranged in functional array around the room were quiet now, their complex operations temporarily interrupted.

The program boards, wired and ready for their jobs of directing the machines in their appointed tasks, were stacked neatly in their respective slots.

The master card decks, their libraries of coded information virtually untapped, lay row on row in their file drawers.

This was the scene as we visited Pete Mobley in Librascope's new IBM accounting facility the last week in June. Pete, the IBM supervisor, made it clear we were witnessing a scene which probably wouldn't be duplicated again during working hours.

Time Cards First

The new facility officially went into operation June 25 when it took over preparation and processing of all Company time cards. With that operation underway and running smoothly, Pete and his group were ready for the second step in the IBM program, that of compiling and printing Librascope pay checks.

IBM-computed pay checks made their first appearance July 12. Before they did, the facility had completed a week-long trial run which included all phases of the operation up to the actual writing of the checks. The results were then checked against those obtained using the existing system. This involved checking the IBM-computed gross and net pay and deductions together with the code and classification for every Libra-

scope employee against the manually compiled payroll.

Pete Explains It

We asked Pete to give us a run-down on how the new system operates, and we'd like to pass his information along to our readers. Pete explained that the new system consolidates several manual accounting functions in a single area. The operation begins with the IBM cards prepared by four key punch operators after which the IBM equipment takes over the calculation and compilation of the payroll and allied accounting functions.

For purposes of illustration we created a mythical Librascope employee named Fred and will see how his weekly pay check is computed. Fred is a member of the bargaining unit, works on a lathe, and has been a Librascope employee since March 8, 1952.

After Fred's daily time card is received in payroll, an operator key punches the total hours he worked during the preceding day on his time card. This operation takes approximately one minute for each employee. At the same time the key punch operator originates a separate daily job card which tells how many hours Fred worked on a particular job the previous day. These job cards are used in cost accounting, the nature of which we will go into later.

Pay Rate Is Entered

The next step involves entering Fred's pay rate on his time card. This information is punched automatically at the rate of 100 cards per minute on the IBM 519 Reproducing Unit from data supplied by Fred's rate card. This card, part of the Master Rate file, lists Fred's name, clock number, department number, Social Security number, rate date, continuous service date and his tax exemptions. It also tells whether he is a bargaining or non-bargaining unit member, salaried or hourly, male or female.

Fred's card is then placed in the IBM 602A calculator and his gross pay (hours worked times rate) is computed. This operation is done daily for direct labor, weekly for indirect labor. Cards are processed at the rate of 35 per minute.

At the end of the week, Fred's and all employees' daily time cards are arranged in the proper clock and department number order on the IBM Sorter, an operation requiring about 20 minutes.

The cards are then placed in the IBM 402 where Fred's gross earnings for the week are tallied and printed on a tape. Simultaneously, the IBM 523, which is connected electrically to the IBM 402, prepares a total card for the week for Fred. These operations require a hour and a half.

Net Pay May Differ

Fred's total for week card is then placed in the 602A Calculator where his taxes are calculated and deducted from his gross earnings. This operation requires about an hour for all employees. At this point, Pete advised us that Fred may note a slight increase or decrease in his net pay under the new system. This difference will arise, Pete said, because the 602A Calculator will compute Fred's taxes on the basis of his actual earnings, not by income brackets as has been the case.

The Calculator also determines automatically when to stop FICA and SDI deductions for Fred.

The next step in computing Fred's pay check involves assembling all Fred's weekly payroll deduction cards—U. S. Savings Bonds, Aid Club, Credit Union, Group Insurance, Union Dues—with its earnings and tax card on the IBM 077 Collator, a 20-

(Continued on Page 3)

Score of Employees Promoted in June

The Librazette wishes to congratulate the following Librascope employees who received promotions from within during the month of June:

Engineering—Airborne

James Fallet promoted to electronic engineering associate.

Frank Olson promoted to electronic engineering associate.

John Walter promoted to electronic engineering associate.

Engineering—Commercial

A. J. Pankratz promoted to electronic engineering associate.

Carroll Schramling promoted to electronic engineering associate.

Eugene Steen promoted to electronic engineering associate.

William Reinholdt promoted to senior engineer.

Engineering—Shipboard

Andy Huot promoted to electronic engineering associate.

George Markham promoted to senior electronic technician.

Richard Roepke promoted to electronic technician.

Engineering—Special Devices

Robert Bishop promoted to optical engineering associate.

Don Lusk promoted to electronic engineering associate.

Robert Nielsen promoted to electronic engineering associate.

Roy Pedigo promoted to mechanical engineering associate.

William Pollock promoted to mechanical engineering associate.

Ross Smith promoted to mechanical engineering associate.

Engineering—Administrative

Charles Cardea promoted to field service engineer.

Harold Conley promoted to design draftsman.

Earl Crawford promoted to assistant photographer.

Ida Sigal promoted to senior department clerk.

Accounting—Contracts

John Grieshaber promoted to chief clerk.

Personnel

Eleanor Dowdy promoted to department secretary.

Production Control

James Walsh promoted to dispatch coordinator.

Tool Room

Art Olson promoted to tool crib dispatcher.

Store Offers Pre-Vacation Specials

Pre-vacation specials are being offered during July at the Precisioner store, according to Manager Eileen Brown.

For those of you who plan to enjoy the beauties of nature during your two weeks, Eileen still has some Coleman camping equipment and a few sleeping bags and air mattresses.

If you've neglected that anniversary or birthday, Eileen has a limited number of select salesmen samples of Elgin-American jewelry. These items are a terrific buy at a third off, Eileen tells us.

Our busy manager is starting an electric blanket club. Sign up now and be prepared for the long, cold winter ahead.



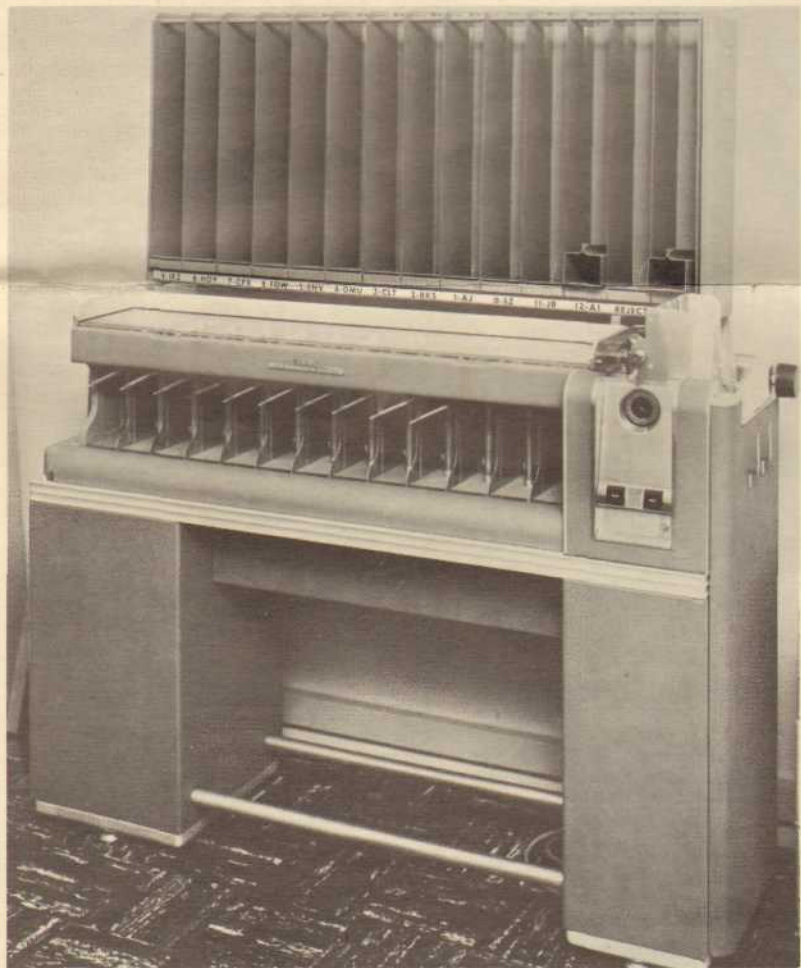
AN OVERALL VIEW of Librascope's new IBM facility is shown above. The equipment, installed in June, includes: an IBM Key

Punch (center foreground); IBM 519 Reproducer (extreme left); IBM 402 Accounting Machine, operated by Edie Wrobel; IBM 082

Sorter, with Harry Ewing at the controls; IBM 077 Collator, manned by IBM Supervisor Pete Mobley. Immediately in front of

Pete is a Moore Business Forms Detacher, which signs and separates the pay checks. Partially hidden by the IBM card files in

the right foreground is the IBM 602A Calculator.



TASK OF SEQUENCING cards is handled by the IBM 082 Sorter. As its name suggests, it will sort IBM cards into any programmed numerical order.



NERVE CENTERS of the IBM operation are program boards like the one shown above. These boards tell the machines what to do with the information key punched on the IBM cards.

IBM Facility

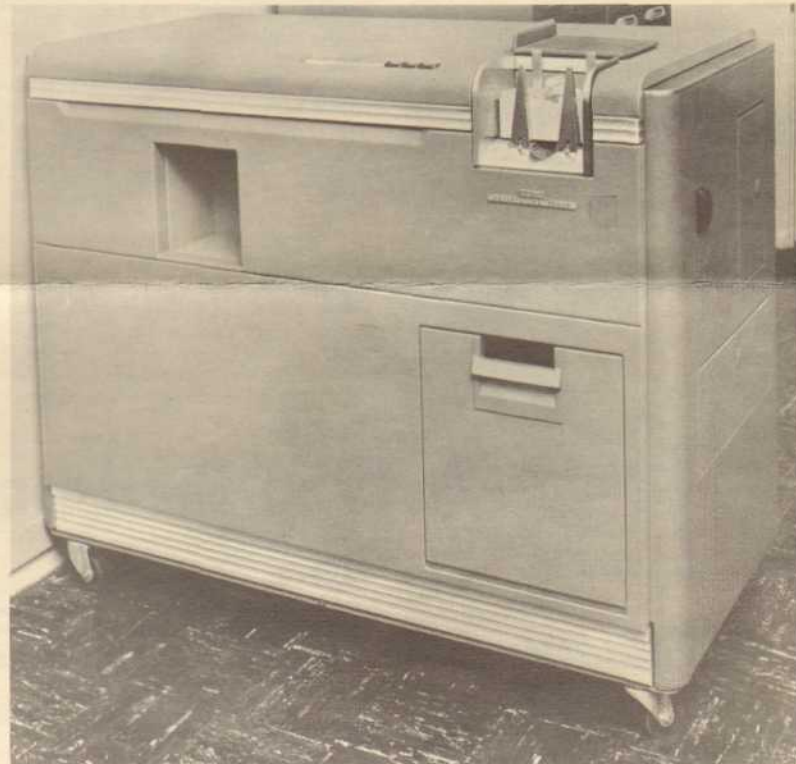
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minute operation for all employees.

The assembled cards are then placed in the IBM 402 and the payroll register is prepared. This is a printed report of Fred's earnings, his deductions and taxes, and his net pay. The operation requires an hour and a half for all employees.

Checks Are Run

The information on the register is simultaneously and automatically punched on a separate card by the IBM 523. This card, and his previous week's year to date earnings card, are assembled on the Collator, placed in the 402, and in one hour all pay checks are run.

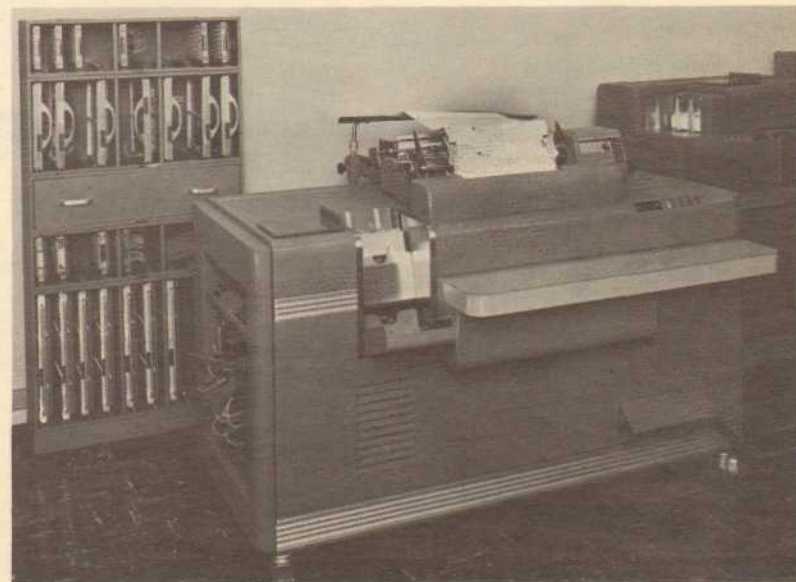
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ONE OF THE most important machines in the new IBM facility is the IBM 602A Calculator shown above. Working from coded information supplied by IBM cards such as those shown in place in the top right corner of the machine, the 602A computes your pay check each week and punches the information on the cards as they pass through the machine. The finished cards emerge in the opening on the left. Directions for operation are wired into program boards such as that shown in the adjoining column. The boards plug into a receptacle located behind the door on the front of the Calculator.



IBM EQUIPMENT SHOWN elsewhere on this page does its calculating, tabulating and sorting from information supplied by coded cards. These cards are prepared on IBM Key Punch machines by our key punch operators. Left to right, the operators are Evelyn Truelove, Mary Robson, Phyllis Kirk and Anita Lauenstein.



YOUR PAY CHECK is prepared on the IBM 402 shown in operation above. The 402 prints your check and enters the necessary information on the check stub as directed by the program board shown in place on the left end of the machine. Additional program boards are shown in their racks in the left rear.

New Converter for Trig Functions Made

Two Librascope engineers, Hank Norris, engineering-airborne, and Wes Stupar, engineering-special devices, have come up with a new analog-to-digital converter that design engineers concerned with angular measurements will find invaluable.

The device, known as the Librascope Sine-Cosine A-D Converter, was developed for an eastern firm for use in an airborne radar system. Its applications, however, extend far beyond the use for which it was developed.

What's It All About?
With so much talk of analog-to-digital conversion filling the air these days, we felt Librazette readers might like a non-technical description of what was involved. We asked Wes Stupar, project engineer on the Sine-Cosine Converter, to help us out, and here, for your information, is the story.

The term "analog quantity" is given to such familiar physical variables as length, time, voltage or angular measurements. Quantities such as these may be thought of as varying continuously.

We could, for example, measure the distance between two points in an analog fashion by fastening a string to one point, stretching it out between the points, and marking it at the second point.

Depends On the String
Within the limits of the string length, we could measure any distance in this manner. Our measurement would then be the length of the thing measured, and our accuracy would depend on the physical characteristics of the string—its elasticity, reaction to effects of heat and moisture, and so forth.

A digital quantity, on the other hand, is a numerical variable which has discrete, that is, separate, values in contrast to the continuous values of the analog quantity. In measuring the distance between two points in a digital fashion, we would choose some unit of measurement such as a centimeter or inch and place a number of these units end to end until we came up with the correct length to the closest unit.

Analog measurement requires that we carry a string around with us. Digital measurement requires only that we remember how many units we used and represent this quantity by a number.

Welcome

Librascope welcomes the following new employees who joined us during June:

- Accounting**
Margery Dillon
- Assembly**
Alice Turner
- Engineering—Administrative**
John Mielkus
Dwight Roof
Myron Strawn
Virginia Wall
- Engineering—Airborne**
Leonard Abrams
Frank Campbell
- Engineering—Commercial**
Fletcher Gross
Gerald Harries
- Engineering—Shipboard**
Charles W. Brown
Harold Goldenberg
Thomas Kampe
Paul Waller
- Office Services**
Judie Johnson
- Military Sales**
Donald R. Welty, Jr.
- Publications**
Carole Beal
Evelyn Busch
Joseph Herdade
Linda Keeman

The Librazette

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Keith Kinnaird Lee Duggan
Earl Crawford



... converts trig functions

The majority of high-speed computing machines today use the digital or numerical approach in their design to take advantage of the inherent accuracy and ease of calculation of the digital system. Since most of the quantities measured in the physical world are of an analog nature, we must have a means of converting from analog to digital values and back again. The analog-to-digital converter is one means of effecting this change.

The new converter has specific military applications in the area of range determination. It could, however, be used to advantage to control machine tools or in many other areas where angular displacements must be taken into account.

Fred Thiel, engineering-administrative, was the designer on the Sine-Cosine Converter project, and the units produced to date were fabricated in the Model Shop.

1956 Precisioneer Budget

Income — (approximate)	
Vending Machines	\$ 2,000.00
Canteen	2,850.00
Precisioneer Store	6,550.00
Miscellaneous Revenue (sale of tickets).....	1,500.00
Total Income.....	\$12,900.00
Expenditures	
Special Activities	
Welfare — (flowers, births, weddings, etc.).....	1,200.00
Children's Christmas Party.....	600.00
	\$ 1,800.00
Sport Activities	
Basketball	175.00
Soft Ball	525.00
Ping Pong	200.00
Bowling	400.00
Fishing	100.00
Gun Club	75.00
Golf	205.00
Sport Car	25.00
Air Club	50.00
	\$ 1,755.00
Club Activities	
Camera Club	35.00
Bible Study Club.....	25.00
Libratones	25.00
	\$ 85.00
Social Activities	
Bar-B-Que	1,000.00
Picnic	1,400.00
Summer Dance	480.00
Christmas Dinner Dance.....	2,000.00
	\$ 4,880.00
Miscellaneous Expenditures	750.00
Insurance	130.00
Operating Expense	3,500.00
	\$ 4,380.00
Total Expenditures	\$12,900.00

LibraSport News

Table Tennis Team Drops Opening Match

Librascope table tennis players, their forehead chops and smashes working to perfection, are branching out a bit in their competitive efforts.

With Jack Klosterman, engineering-commercial, doing the organizing, several local paddle wielders have formed a table tennis team and are scheduling matches in the area.

Their initial match, a practice affair, pitted the Librascope contingent against the Reseda Community Center team at Reseda high, June 5. Unable to cope with the still air and the shots off the opposition's sponge rubber paddles, our team wound up on the short end of a 22-10 score.

Librascope players included Klosterman, Dave Hackett, engineering-shipboard; Fred Herbst, engineering services; Frank Hill, engineering-commercial; and Chuck Ramba, inspection.

Indoor practice sessions every Tuesday night have been scheduled at Olive Recreation Center, Burbank.

Mr. Imm Featured In Business Week

Librascope President Lewis W. Imm and several other Southern California executives were featured in a June 16 *Business Week* article entitled "When Scientists Run the President's Office."

The article, using Mr. Imm and other executives in the electronics field as examples, points up the growing number of businesses being headed by scientists and engineers.

George DuVall is Winner Of Hare and Hounds Event

A wily "hare" led Librascope "hounds" a merry chase in the third annual Precisioneers Sports Car Rally June 23.

The event, held in conjunction with the Precisioneer Barbecue, saw the hare, Lou Buhler, of Clary Multiplier Corporation, weave a tricky trail from Librascope's parking lot to Newhall's Saxonia Park.

One-half hour after the hare's departure, the hounds peeled off at five minute intervals in hot pursuit. Led by Frank Copple, the multi-horsepower propelled hounds attempted to follow the devious course of the hare. The only clues were a series of lime spots spaced along the way.

Winner of the event was Geo. DuVall, engineering-administrative, whose unerring eye and steady hand enabled him to come closest to the correct mileage and number of turns. He was presented with the first place trophy for his efforts, a handsome clock on a wooden base surmounted by a miniature Ferrari, which was donated by the Precisioneers.



... top dog

Second place was taken by Frank Copple, engineering-administrative, driving an MG. Don

More About IBM

(Continued from Page 3)
After the checks have all been printed, they are placed in a detach (a product of Moore Business Machines) where they are signed and separated ready for distribution.

Last week's year to date card and this week's earning card are then assembled on the 077 Collator, placed in the 402, a year to date earnings report is printed, and a new year to date card is cut on the 523 ready for next week's operation.

Cost Accounting, Too
Cost accounting records are also prepared from information taken from Fred's time card. At present these records are prepared in two areas—labor (or cost) distribution by job number, and by machine number. At some future date, cost distribution by part number will also be obtained for accounting purposes, Pete said.

The first breakdown, that of cost distribution by job number, gives an up to the minute report on actual job costs.

Sullivan Team Retains Lead In Librascope Golf League

Competing teams in the Librascope Golf League, with half the season behind them, are making plans to dislodge Ed Sullivan's first place Drivers from their position atop the league standings. Sullivan's front runners consolidated their hold on the league leadership by defeating Forrest McColl's Team No. 2 8½ - 3½. The loss dropped McColl's Diggers into a tie for fifth.

Tom Ryder's Team No. 1 shot into a second place tie with Bob Berg's Team No. 10 on the strength of a 11-3 shellacking of



... DCWs and Rick

Webster, chief engineer, tooling his new Jaguar, was the third place trophy winner.

Others competing in the event included the Harlan Buseths, the Walter Leberts, the John Delle Favas, the Rudy Rieders, the Roy Pedigos, Otto Gelormini, Dick Saunder, Rick Girourad (who planned the event) and last (and we do mean last) Jim Fallet.

Jim, it seems, got off on the wrong spoor late in the chase and wound up in the vicinity of Palmdale before realizing his error.

Clamp Tooling

(Continued from Page 1)
techniques. Practically speaking, the splitting operation is limited only by the speed of travel of the milling machine carriage.

After the clamps have been split and tumbled to remove any burrs or sharp edges, they are moved to another tool for drilling, counterboring and tapping. Specifically designed for these operations, the tool has permitted a production increase from 100 clamps per hour to 400 per hour.

Librascope tool designers have also come up with an automatic stamping device for part numbering the clamp halves. The machine is designed around a standard commercial inking fixture. They are also designing a holding fixture which will be used in automatic assembly of the clamps for shipping.

The second breakdown, that of cost distribution by machine number, is a running record of up time for all Librascope machine tools. It will be invaluable in computing machine rental costs and for arriving at realistic depreciation figures.

The third breakdown, that of cost distribution by part number, will provide a current and exact figure on actual parts costs.

That, in brief, is the story of the IBM facility to date. The potential of the grey machines has been tapped and the first results are trickling out. As more of this potential is realized, the trickle could become a stream.

Bob Somerville's Team No. 6.

Golfers, with an eye on the handicaps they hope to carry into this year's 8th Annual Golf Tournament, scored somewhat higher than they had in previous rounds. Among the better rounds were Chuck Guran's 40 on the Roosevelt course and Bill Bratton's and Wally Jobe's 42's on the Wilson layout.

Prize for most holes won in the sixth period went to Bill Bratton's Team No. 2, who racked up 30 in defeating Arnie Brown's Team No. 5, 8-6.