Murray, Smith Inspect Librascope Facilities; Tour Sunnyvale, Burbank, Glendale Plants

Libratol-500 Sold to Army for Missile Checkout

Joe Ator, head of Burbank's Industrial Systems department, has announced the sale of a Libratrol-500 to Frankford Arsenal, Philadelphia, the third sale of Librascope's desk-size process control computer in recent months.

"PAST PERFORMANCE by Librascope equipment at Frankford Arsenal and promise of quick delivery clinched the sale for us in the face of stiff competition," Ator said.

Last November, Burbank shipped one Libratrol-500 to the Public Service Company of Colorado at Denver.

Subsequently, an "internal" sale was made to GPE. That unit will be installed at Princeton University for use by Aeronautical Research Associates.

The Libratrol-500 which has been sold to Frankford will actually be installed at Letterkenny Arsenal, Pennsylvania, Ator said; and it will be used to control and monitor checkout of missile engines.

TOTAL PRICE of the sale "is in the neighborhood of $140,000," he added.

Lynn Albizati Wins National Science Award

Lynn Albizati, seventeen-year-old daughter of General Foreman Trent Albizati, has received the gold medal National Science Award of Bausch & Lomb, her proud father reports.

"The award is for outstanding academic work in all subjects for the whole time she has been in High School — and for general participation in school activities too," Trent says.

AT THE REQUEST of Bausch & Lomb, Lynn's recently completed college entrance examination papers have been forwarded to the University of Rochester.

"And if they accept her, then she wins a scholarship to the University. You can bet I'm proud of her," Trent adds. "I'm keeping my fingers crossed."

A student at Burbank's Bellarmine-Jefferson High School, Lynn graduates this June. If accepted by the University of Rochester, she will enter classes there this Fall.

Four Man Team Dispatched to Atlantic City

A four man Special Devices team has been dispatched to Atlantic City, N. J., to aid National Aviation Facility Experimental Center personnel in setting up Librascope's FAA Data Processor.

PROJECT MANAGER Wes Stupar, Engineer Bill Baker, and Electronics Technicians Jay Campbell and Tom Flesher form the group. They will be stationed at NAFEC for "about four weeks," according to Chief Engineer Les Bentley.

Special Devices shipped the first integral units of the FAA Data Processor to Atlantic City last month. After further testing by NAFEC, the data processor will be installed at New York's Idlewild airport.

He who thinks he must always refer to another before making any decision knows not his own mind. Think, decide, then act — and enjoy the pleasure of having done something.

AT THE WORK BENCH — General Precision's Board Chairman, James W. Murray, center, and GP President Don W. Smith, right, pause during their recent tour of Librascope facilities to talk to Assemblers in Building 10. Chatting with Murray and Smith is Rita Schnell. A native of Denmark, Rita is now an American citizen. She is completing her first year of service with Librascope. Behind Rita are Eunice Lawrimore and Zelma Langdon. At right is Juanita Roby. After viewing all operations at Sunnyvale, Burbank and Glendale, Murray said, "It is very obvious that Librascope is the fastest growing division . . ." in the General Precision corporation.

LIBRAZETTE

LIBRASCOPE DIVISION GENERAL PRECISION, INC.

AN EXCHANGE OF NEWS AND KNOWLEDGE

Vol. 18, No. 7 February, 1960

Credit Union Membership, Earnings Increase

The Employees' Credit Union had the biggest and most profitable year in its existence during 1959. Membership rose from 1,178 to 1,995, net earnings from $24,359.72 to $41,159.14.

THESE HAPPY FIGURES are joined by another — 5½% — the dividend voted by the board of directors at the credit union annual meeting Jan. 27. This too, is an increase, of ½ of 1 per cent over 1958.

Announcement of the dividend and a report on 1958 operations came from Ted Donley, retiring president. Donley, Keith Kinnaird, Jim Whiting, Pete Mobley and Cliff Godwin all are retiring after completing their charter-limited terms of three years each as board and committee members.

VOTED INTO OFFICE in their places are Jim Clark, Production and George Yerkes, Publications, to the board of directors; Ray Rockwell, Field Operations, to the credit committee; Jack Dean, Burbank and Art Owens, Glendale internal auditor, to the supervisory committee.

Remaining in office are Val Castle, Norm Stevens, Urban Kemme, Art Vincenti and Dorris Eberle, secretary-manager, as members of the board of directors; Joe Wilson and Steve Jackman, credit committee and Jay Wiltsie, supervisory committee.

THE BOARD was to meet Feb. 3 to name its President and Vice President.

"We had a very good year," Donley reported. "Earnings were excellent and we were able to be of real service to our members. But we'd like to serve even more of our fellow workers. I hope that the almost 1,500 Librascopers who haven't joined our ranks to take advantage of high earnings and loans at low rates, will do so during 1960."

Year End Report Indicates Rapid Growth Of Credit Union

	1958	1959
Member shares	$553,184.98	$866,132.92
Loans to Members	420,916.85	765,064.89
Income from member loans	36,508.25	60,474.68
Investment earnings	1,820.28	2,437.50
Total income	38,916.62	63,010.18
Total expenses	14,556.90	21,852.04
Net earnings	24,359.72	41,159.14

Call Librascope Fastest Growing GP Division

James W. Murray, Chairman of the Board of General Precision, Inc., and Don W. Smith, GP President, toured all Librascope facilities last month following the corporate merger which created General Precision, Inc.

Beginning in Northern California, Murray and Smith spent one day inspecting Carroll Maninger's Sunnyvale Division.

Of the Sunnyvale unit, Murray later remarked "I am particularly impressed with the enthusiasm shown by all employees here."

FLYING TO the Southland, they then met with President Lewis W. Imm in Glendale. Accompanied by President Imm, Executive Vice President Bill Bratton, and Controller M. L. ''Lindy'' Lindahl, Murray and Smith then toured the Burbank Division facilities.

Vice President and Burbank Division Manager R. E. "Dick" Hastings hosted the group, showed them the Tujunga and Verdugo avenue plants.

Next stop was the Providencia street operation where Glendale Vice President Don Webster joined the group.

From there, Murray and Smith moved on to Glendale, inspecting Final Checkout in Building 5 and Circuit Assembly, Etching and Plating at Building 10.

THE MORNING'S INSPECTION ended with a quick look at Librascope's soon-to-be-completed Building 17 on Sonora Street.

The afternoon's tour included Special Devices, the new Engineering Administration unit on Francis Court, Airborne and Shipboard.

At a management dinner following the day's visit, Murray recalled one impression of his tour saying, "I never before met so many engineers who sound like salesmen.

(Continued On Page 2)

Machinists Elect Dan Fitzpatrick California President

Dan Fitzpatrick, Business Agent for Local 1600, IAM, has been elected President of the California Conference of Machinists.

More than 300 delegates, representing all machinist locals in California, met in Fresno Jan. 15-17, and elected Fitzpatrick to the one-year presidency by secret ballot. Fitzpatrick was 1959 vice-president of the organization.

Income Tax Forms Available Now At Benefits & Services

Federal and State Income Tax forms, along with instructional booklets, have been received by Art Pederson, Benefits and Services, Building 2, and they may be picked up at his office.

Art has also received the "1959 Claim For Refund" forms for contributions made to the State Disability Insurance fund.

If you had more than one employer during 1959, and if your contributions to the fund exceeded the $36 deduction required by law, then you are entitled to a refund, from the state.

However, the final filing date for this claim is June 30, 1960, since the law does not provide for extensions of time for filing this type of claim. For further details, See Art Pederson.

One way to cooperate with a fellow worker is to show precisely the same respect for his idiosyncracies, foibles and habits as you hope he will show for yours.

HOW'S IT GOING? — Project Manager Frank Hill, in white shirt at left, answers questions of GP President Don W. Smith, far right, on the RPC-9000, business data processor being built by Burbank Division for Royal Precision. Standing next to Hill is Board Chairman James W. Murray. Librascope President Imm is next to Smith. Partially hidden in background are Charles Krill, Chief Engineer, Burbank; Bill Bratton, Librascope Executive Vice President; and Dick Hastings, Vice President and Burbank Division Manager.

Wage And Salary Analysts Undertake Job Evaluation

The second phase of a company-wide job evaluation, designed to arrive at a more equitable wage and salary structure, gets under way this month. All salaried, non-supervisory jobs will be affected.

Because of Librascope's rapid growth, many previously-evaluated jobs are now larger in scope than specified in existing job descriptions; other jobs, because they were created virtually overnight to meet immediate needs, have never been evaluated at all. It is Librascope's desire that all jobs shall be properly evaluated and placed in a proper salary range.

FIRST STEP IN THE evaluation program will be the writing of job descriptions which define the job duties. These will be written by Personnel's job analysts and will be based upon interviews with several persons in each job classification, plus questionnaires to be filled out by those questioned.

Rough drafts of the descriptions will be reviewed by the job holder, his supervisor and department manager. The descriptions then will be evaluated by a committee composed of Production Manager Harlan Buseth, Controller Norm Stevens and Bill McAboy, assistant manager of the Glendale division.

THE COMMITTEE WILL compare the descriptions with those factors which determine the job's worth. End product will be the salary range for the job. Hannes Boehm, wage and salary administrator for Personnel, and Frank Yapp, Personnel job analyst, Ray MacDonald, Engineering wage and salary administrator and Bob Campbell, his assistant, will perform the initial job analyses.

Bill Greer Urges Intelligent Use Of Office Supplies

Pens, pencils, paper clips, stationery, carbon paper, memo pads, rulers and ball point pens . . . literally thousands of these things are consumed by Librascope personnel every year.

Taken individually, their cost seems to be scarcely worth mentioning. Yet considered in the aggregate, their total cost is a figure to be reckoned with.

HOW MUCH did Librascope spend for office supplies during 1959? More than $110,000, according to Bill Greer, Supervisor, Orfice Services.

"Office supplies cannot be charged to anything. They are an expendable commodity, part of the normal cost of doing business," Greer says.

But that "normal cost" can very quickly become "abnormally high," if intelligent conservation and use of supplies is not practiced. "Stockpiling" is not intelligent practice.

FOR THIS REASON, Greer urges all Librascopers to use their office supplies "intelligently and prudently, and avoid waste wherever possible.

"To do so, demonstrates both good judgment and good management," he adds.

Paul Bender Becomes Assistant to Norris

Paul E. Bender, until recently an engineering administrator with the Electric Boat Division of General Dynamics, has joined Librascope's Airborne Engineering department as assistant to Chief Engineer Hank Norris.

A graduate of Princeton with a major in economics, Bender is a 15-year veteran of the Navy, in which he served as ordnance officer and executive officer aboard a destroyer during World War II. He was operations officer of Service Squadron Three of the 7th Fleet during the Korean war.

Bender wound up his Navy career as a Commander in 1955, after tours of duty with the Office of Naval Research and the Bureau of Ordnance. He joined Electric Boat the same year as administrative assistant to the chief of research and development engineering.

A bachelor, Bender is making his home in Burbank.

Considine to Supervise Engineering Training

Everett Lloyd Considine, for 14 years in charge of engineer training with General Petroleum Corp., Torrance, has joined Training Director Walt Sertic's staff and will supervise the training of engineering department personnel.

A graduate mechanical engineer (Polytechnic Engineer College, Oakland), Considine also is a licensed electrical engineer, is working toward a Master's degree at UCLA. A Navy veteran of both World War II and the Korean war, he has been skipper of patrol craft, AKA and APA transports and was Commanding Officer of the Reserve school at Los Alamitos Naval Air Station.

Considine, a native of Berkeley, is married to the former Miss Irene Brown of Napa. They have three youngsters, Rett, 19, a student at El Camino College, Claudia, 15 and Lois, 10. The family makes its home in Manhattan Beach, but plans a move to the foothills after school graduations.

Murray, Smith Tour

(Cont'd From Page 1)

"By that I mean that they are all so convinced of the important nature of their work — and of the work the company is doing — that they sold every time they talked to anybody. . . ."

MURRAY FORECAST a profitable, healthy future for General Precision, Inc., saying, "With all of the necessary ingredients present . . . with all the vast human and technical resources that we possess . . . it will be impossible for GP not to be a success. . . ."

Giving his overall impression of the tour of Librascope facilities, Murray said: "It's very obvious that Librascope is our fastest growing division."

Ken Slee, Librascope director of Advertising and Public Relations, has been named Chairman of the General Precision Advertising Committee, according to GP President Don W. Smith.

The committee is charged with planning and creating all GP advertising, with preparing all sales promotion literature, with managing trade shows, and with maintaining public relations with the various trade and technical journals.

The committee is comprised of Gerry Toker, Kearfott; Jonah Kalb, GPL; Ted Mulford, Link; and Pete Herman, GPE. Slee, as Chairman of the committee, will report directly to GP President Smith.

INSPECTION TOUR — General Precision Board Chairman James W. Murray, right, strides through lobby of Building 5 after completing inspection of Final Checkout area. In background are Librascope's President Imm, left, and General Precision President Don W. Smith, center.

Dean Johnson Will Manage Trade Shows

Librascope's participation in a score or more trade shows and technical expositions this year will be under the supervision of Dean A. Johnson, who has been named trade show manager by Advertising and Puplic Relations Director Ken Slee.

Formerly an automobile stylist, Johnson was one of the designers responsible for the Lincoln Continental, in its postwar version. He is a graduate of both Glendale College and Los Angeles' famed Art Center School. He saw Navy service as a fire controlman.

A resident of Glendora, Johnson is married and the father of three youngsters. He was an industrial designer and trade show manager for Consolidated Electrodynamics until he came to Librascope.

Many of our best employees have come to us as the result of a referral by someone who already works here, notes Personnel Manager C. P. "Mac" McKeague.

If you have a friend or acquaintance whom you think can meet our standards, and whom you believe would be a valuable addition to Librascope, then refer them to our Personnel department and an interview will be scheduled.

Applied Research Director Forecasts Ion Beam Use In Future Manufacturing

"HAND ME THE MEMORY UNIT," one technician says to another. The man spoken to picks up a small package, a package no larger than a deck of cards or a pack of cigarettes.

"Now slip it into the computer," says the technician. And in it goes, as easily as slipping a new blade into a safety razor.

The computer itself is perhaps no larger than a loaf of bread. Its frequency rate—the speed at which it performs its calculations — is ten to 20 megacycles, a rate vastly greater than that of contemporary computers.

Is this "miniaturized, high frequency computer" a dream of the distant future? Far from it. It is rather an example of what is about to happen here at Librascope within the next five to ten years.

WAYNE BLACKBURN, Librascope's Director of Applied Research recently forecast the development of such a computer, and outlined the modified manufacturing techniques necessary to produce such equipment.

"We do not foresee either radical or revolutionary changes in methods," Blackburn notes, "But we do foresee various innovations and modifications which will be blended with our present techniques."

Addressing a group of key production and engineering personnel assembled in Production Manager Harlan Buseth's office, Blackburn made these points about miniaturization:

"First we hope to replace the memory drum of our computers — a moving part — with a single static unit.

"ONE METHOD IS TO use what we call 'thin films.' These are films whose thickness measures one-quarter the wave length of light, or about one half of a micron.

"Such films can be laminated in a high vacuum. On one magnetic film, for instance, we can put the inhibiting circuit system; on another, the sense system; and on a third, the drive system. After laminating the films, we will have a complete memory and sense unit for a computer."

Far from being a future possibility, this is one method that is already being mastered at Librascope.

"We have already laminated 17 thin films in one of our laboratories for another purpose," Blackburn said.

ANOTHER TECHNIQUE for creating a memory unit — and 'creating' is used advisedly in this context, Blackburn notes — is to "paint on" the required circuit elements.

The process is analagous to the work of the fine artist who imposes upon his canvas layer upon layer of paint, creating his compositional elements at will.

"An ion beam is used," Blackburn says. "It literally paints the picture of the circuit you require. Circuit upon circuit can be laid one atop the other by means of the ion beam. And there is no need for masking or other separation between layers.

"Moreover, with the ion beam, you are synthetically fabricating the active as well as the inactive portions of the circuitry, for instance transistors and capacitors."

UNDER WHAT CONDITIONS can the thin film or the ion beam techniques of fabricating be used?

"All work must be done in a high vacuum of course," Blackburn explains. "The extremely delicate tolerances almost defy human execution. And it seems likely that we will soon be using computers themselves for certain problems of testing and quality control.

"Also, we can expect to see an increased use of ultra sonic equipment, especially the electron beam machine.

"What can it do? Specifically, the electron beam machine can cut a slit .0015 inches in width; or it can drill several holes in a surface no larger than the head of a pin.

"ONLY THE ELECTRON beam machine can provide the ultimate exactitude, the resolution and definition needed to produce integrated (computer) elements and systems."

"These then," Blackburn concludes, "Are some of the developments that lie ahead as we begin to produce 10 to 20 megacycle computers.

"And only time will tell us," he adds, "How long it will be before we begin to produce the 100 megacycle computer, as we surely will someday."

Engineering Library Circulates Journals

Several hundred trade and technical journals are received, catalogued and bound by Librascope's Engineering Library in Building 16. Virtually all of them circulate, and Librarian Nate Sands suggests that these journals will keep you posted on the latest developments and discoveries in your particular field.

Consult the "Magazine Holding List" in the Library, check those you feel you should receive, then turn the list over to Nate Sands. Once your need is established, the particular magazines will be routed to your desk.

A HELPING HAND FOR HEAR FOUNDATION — Your contributions to the Precisioneer sponsored Christmas Card Charity Drive totaled $2,299.77. Here, President Imm, left, presents check for that amount to Dr. Ciwa Griffiths, HEAR FOUNDATION. At right is Shipboard electronics engineer Leonard Ludwigsen who has built much of the test equipment used by Dr. Griffiths in her work with deaf and hard of hearing children. In background are Jim Studdard and Hal Snyder, Shipboard, co-chairmen of the drive. Said Dr. Griffiths: "The generous support of Librascope employees has made it possible for us to do things we might not have otherwise accomplished. A child who might otherwise have remained deaf will now hear again as the result of your splendid aid. To each of you I extend my heartfelt thanks."

SUNNYVALE'S ASSEMBLY TEAM — Assembling circuit boards at Sunnyvale Division plant are, front row left to right, Milton Woodworth; Norma Landice; Christene Smith; Eleanor Targantos; Hilda Waldorph; Claire Graeme; and Georgia Thomas. Just behind front bench are Edith Minchokovich; Betty Cuen; Lorre Taylor; and Adele Weiter. At second bench are Phyllis Lounsbury; Dorothy Rau; Edna Mayfield; Eddie Browning; Bernadine Henderson; and Eva Franz. General Precision's Board Chairman, J. W. Murray, who recently toured all of Librascope's facilities, said of Sunnyvale, "I was very much impressed by the enthusiasm of everyone in the division. . . ."

Maninger Tells Steps that Led to Development of Exploding Bridge Wire

"Around a tiny piece of wire, two mills in diameter and about a quarter-inch long, we have built an entire engineering, research and production organization."

Thus spoke Carroll Maninger, Sunnyvale Division Manager, who recently appeared at Glendale to describe the development of the Exploding Bridge Wire to a key group of Librascope engineering and management personnel.

The Exploding Bridge Wire system "offers a new concept for ordnance safety and reliability in missiles and space vehicles," according to management sources.

BUT BEHIND THAT general statement is a history of research, of discovery, and of invention which have led to Librascope's preeminence in the EBW application.

In his lecture here, Maninger traced that history, noting that the EBW "actually began as a sort of laboratory curiosity, like so many discoveries in science.

"We began to perceive its possible applications when we were developing our electronic camera. We wanted a high intensity light source for high speed photography; and the Exploding Bridge Wire gave us that light, permitting us to photograph images in fractions of a microsecond."

But its value as a light source rapidly became overshadowed by its possible use as an explosive detonating device, Maninger said.

SHOOTING A CURRENT through the wire at about "2,000 amp flow . . ." produced a "rapid rise time and amplitude . . ." and a "3,000 to 5,000 voltage peak at the moment the wire exploded. . . ."

Temperature of the wire at the instant of explosion could range from 5,000 to 1 million degrees Centrigrade.

"Just what happens at the highest temperatures is not fully known," Maninger said. "It is perhaps a wire no longer, but a gas or liquid at that point.

"Yet by halting the current at various points just short of the actual explosion, we found that surface tension had produced an unduloid shape — a Mae West effect, if you will — in the wire.

"It is probable that when the explosion does occur, the fragments of wire fly off at a disintegration rate of perhaps 150,000 to 300,000 feet per second."

All applications of EBW have not been fully explored, Maninger said; and he described several areas into which EBW research may move in the future.

EBW's RATE OF disintegration suggests interesting applications in space propulsion; its detonation under water, (where it produces 1 megabar or 1 million atmospheres pressure), suggests applications to Sonar; and there is the additional possibility that EBW can be used to induce fusion reaction, (conversion of elements to produce energy).

Presently, the Exploding Bridge Wire along with Sunnyvale's new explosive, "Technite," are being used for major missile system functions.

It's your eyesight — and only you can protect it. The signs warn, "Eye Protection Must Be Worn In This Area." It's up to you to take the safety glasses out of the nearby box and put them on.

Sunnyvale Continues Research On Newer "Technite" Mixtures

Experiment and research into the ideal admixtures of "Technite," Librascope's revolutionary new explosive, continue unabated at Sunnyvale under the guidance of Bill Morgan, Director of Ordnance Facilities.

"Technite," is a safe, inert explosive, yet an explosive with enormous detonating power.

It has been developed by Sunnyvale for major missile system functions. It is used for rocket engine initiation stage separation, including bolt fracturing and thrust termination functions.

Current tests are providing data on the depth and uniformity of penetration of the newer, experimental admixtures of "Technite" as they are discharged into Styrofoam cubes.

Military Specification require that all explosive meet exhaustive test requirements under fluctuating temperature and humidity conditions.

HISTORICAL SOURCE — Sunnyvale Division Manager, R. Carroll Maninger, points to earliest known reference of experiments with an Exploding Bridge Wire, experiments made by a Dutch alchemist in the 19th Century. Maninger recently appeared before a key group of engineers and management personnel in Glendale, outlined Sunnyvale's experiments and achievements with Exploding Bridge Wire.

VIEW FINDER TESTER ASSEMBLY — Displaying component of a view finder tester which Sunnyvale is assembling for Special Devices, Glendale, are, from left to right, Walter Permann, Production Coordinator; John Wright, Tool and Instrument Maker; and Electronic Technicians Roe Wilson and Duane Flagen. Electronics Technician Doug Evans kneels in foreground. Four out of the eight view finder testers scheduled for assembly by Sunnyvale have been shipped to Special Devices "on or ahead of schedule . . . ," according to Permann.

Sunnyvale Ships Viewfinder Testers

Librascope Sunnyvale has produced and shipped to Glendale Division four viewfinder testers, and expects to deliver the next four of an eight unit order "on or ahead of schedule," according to Walter Permann, Sunnyvale Production Coordinator.

THE VIEWFINDER itself consists of three components—a stand, a tester and a colimator — and all are developments of Librascope's Special Devices, Production Engineering and Test Engineering departments.

Developed for Douglas Aircraft by Librascope, the viewfinder is used with servo cameras in the A3D2P twin jet attack bomber.

The A3D2P is a trans-sonic aircraft used extensively for photo reconniaissance.

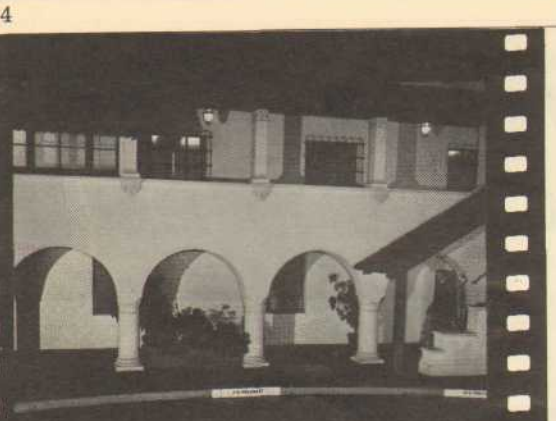
DRAWINGS for the viewfinder tester were shipped from Glendale to Sunnyvale last July. And production has moved "from drawing board to finished unit, ready for checkout, with a minimum of problems," Permann says.

THE MEN WHO MAKE "TECHNITE" — Playing a large part in the development of Librascope's new explosive, and charged with the never ending research to continually improve the product, are Sunnyvale's Director of Ordnance Facilities, Bill Morgan, right, and aide, Senior Chemical Engineer, Al Smith, right.

Librascope's Aid Club contributed $1,334.00 to the March of Dimes in January. During this month, contributions of $1,334.00 and $3,363.00 will be made to the Arthritis and Heart Funds respectively. March contributions will be made to the Red Cross and to the Cancer Society.

LIBRAVETS — Shown above are Librascopers who recently became five year Libravets. Top row, left to right, Gladys Cowan, Gail Davis, Sol Elkins; second row, Howard Frederick, Charles Guran, Andy Guriel; third row, Ernest Hebert, Alice Masternak, Ralph Mershon; fourth row, Joe Mesch, Barbara Peglau, Walt Sertic; bottom row, Earl Sipple, Hal Snyder, John Walker.

The 'Night People'



Light Spills From Archways
At Deserted Shipboard Bldg.

Lee Vance Surveys
Empty Drafting Room

Charlotte Witmer, Jeannette McDonough, Key Punch

Tom Catania, Roy Sorensen, Bob Barker, Machinists

Coffee Time For Nina
Marshall & Yo Yakimoto

Gladys See, Dorothy Kenney,
Blueprint Control Clerks

Shirley Edwards, Assembler,
Jack Bareis, Night Foreman

Paul Kleszcz, Harry Elam,
Robert Balke, Toolmaker

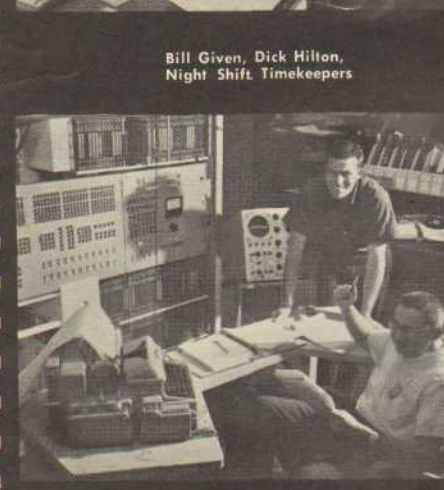
Doris Ray, Wanda Irwin,
Carrol Ogden, Blueprint

Unknown Couple Hold
Midnight Tryst

Dee Gaines, Janice Murtha
Coffee Shop Waitresses

Selon Struble Stands
Lonely Vigil At Gate

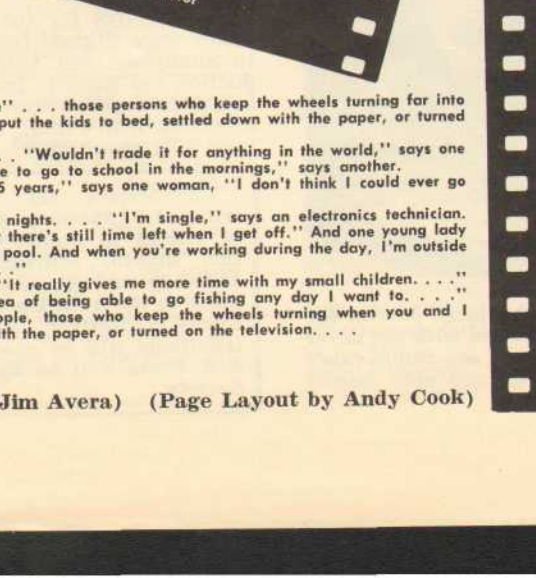
Bob McMullen, Frank Paravato,
Paul Giessler At IBM Machines



Bill Given, Dick Hilton,
Night Shift Timekeepers

All Is Quiet
On Carpet Row

Mrs. Germaine Labrie,
Night Shift Maintenance



Boyd Hall, Jig
Mill Operator

Georgia Stukey, Ellen Oberstar,
burrers, Ray Gable, leadman

Gale Gieseke, Technician,
Peter Tults, Assoc. Engr.

Theresa Candidi, Our
Night Shift Operator

These are some of the "night people" . . . those persons who keep the wheels turning far into the night . . . when the rest of us have put the kids to bed, settled down with the paper, or turned on the television. . . .

What's it like to work after dark? . . . "Wouldn't trade it for anything in the world," says one production worker. "It gives me a chance to go to school in the mornings," says another.

"I was married to a musician for 15 years," says one woman, "I don't think I could ever go back to working days again. . . ."

There are many reasons for working nights. . . . "I'm single," says an electronics technician. "Sure, it cuts into my social life . . . but there's still time left when I get off." And one young lady says, "Well, I have an apartment with a pool. And when you're working during the day, I'm outside sunning myself. Day work? Not for me. . . ."

Some mothers who work nights say, "It really gives me more time with my small children. . . ." And some men add, "I just like the idea of being able to go fishing any day I want to. . . ."

So these are Librascope's night people, those who keep the wheels turning when you and I have put the kids to bed, settled down with the paper, or turned on the television. . . .

(photos by Earl Crawford and Jim Avera) (Page Layout by Andy Cook)

Paxson, Frye Join Military Relations' Washington Office

Larry L. Paxson, ex-Navy ordnance expert was appointed to Librascope's Washington Military Relations staff last month by Director Ralph Barnett, to represent the Sunnyvale division.

A technical sales representative for Thiokol Chemicals until his Librascope appointment, Paxson is a chemistry grad of Rutgers University. As a Navy lieutenant he served in ordnance disposal specializing in intelligence evaluating of enemy mines, bombs and torpedoes.

Burned slightly in helping to clear Tokyo Bay of never-used mustard gas bombs dumped there by the Japanese, he says, "I became the only World War II gas casualty — seven years after the war!" He was awarded the Japanese Legion of Honor for the operation.

Prior to joining Thiokol, Paxson was a civilian employee of the USN propellant plant at Indian Head, Pa. He is married to the former Miss Joanna Brackett, an economic research analyst with the Stanford Research Institute. They make their home in Washington.

Another addition to Military Relations' Washington staff is John M. Frye, recently retired from the Navy after 12 years' service. Holder of a Bachelor of Science degree from Holy Cross University, 33-year-old Frye has been a project officer at the U.S. Naval Gun Factory, on the staff of the Atlantic AEW-ASW Barrier command and also served as the operations officer of the "The Sullivans," a destroyer named for the five brothers who perished simultaneously in a World War II Naval battle.

Frye entered naval service in 1947, after graduation from Holy Cross. Earlier he studied at Bates College, Lewiston, Me. He is married to the former Miss Ann O'Connell of Georgetown, makes his home in Arlington, Va. He will represent Shipboard Engineering in Washington.

Kathleen Atkinson Named Washington Contract Specialist

Miss Kathleen Atkinson, well known to many Librascope personnel for a number of years, has joined the staff of the Washington Office as Contract Specialist in the Washington area.

Since 1947 Kathleen had operated her own business as Washington representative for various contractors doing business with the Department of Defense. Librascope became one of her clients early in 1950.

Kathleen is an attorney and a member of the D. C. Bar Association. She holds a Bachelor of Science degree from Carnegie Institute of Technology and a Master of Arts degree from Western Reserve University.

Before establishing her office in Washington, Kathleen spent four years in the WAVES, with assignments at the Naval Ordnance Plant, Centerline, Michigan and the Bureau of Ordnance. Before joining the Navy, Kathleen had extensive business experience as Office Manager, copy writer and editorial assistant in Cleveland and Detroit.

CREDIT UNION HOURS
11:30 a.m. to 12:30 p.m.
4:00 p.m. to 4:45 p.m.
Monday through Friday

Military Relations: Who They Are, What They Do

When the skipper of a destroyer, submarine or aircraft carrier issues a command, a whole complex of human and mechanical operations is set into movement.

A gun is fired, a torpedo is shot out of the sub, an airplane is launched. And somewhere in that mechanical complex of instruments there are one or more products of Librascope engineering and manufacture.

WHY A LIBRASCOPE device instead of an article manufactured by a competitor?

The reasons are many and varied — a superior product, an imaginative design, a unique application that only Librascope has envisioned.

And six times out of ten — if the product is a military weapons device — that device is the end product of a particular application uncovered by our Military Relations department.

An engineering department, of course, must always transform the

Ralph Barnett, Director Military Relations

proposed idea into a concrete reality; and in so doing, they devise the important innovations that make the product practicable.

"BUT THE BURDEN of initiating the proposal often falls upon Military Relations because of their keen awareness of military needs," says Ed Quilter, manager of the Glendale Military Relations office.

Under the direction of Ralph Barnett, Director of Military Relations and Manager of the Washington office, the department has effectuated "military customer contracts that insure a consistent and coherent approach to military needs. . . ."

In this approach, Military Relations functions fall into two areas, "external" and "internal." The "external duties" require Military Relations personnel to:

(1) Keep constantly abreast of Military needs through personal contact, through attending weapons conferences, and through reading technical and trade journals.

(2) **ANSWER QUESTIONS** posed by the military and suggest solutions to problems presented by them.

(3) Initiate systems or weapons devices proposals where the need for such a system or device clearly exists.

(4) Assist the top engineering personnel who make the final "sales presentation" to the military customer.

"But Military Relations' 'internal' functions are equally important," Quilter adds. "In this area, we have a vital interest in internal communications throughout the company."

ESSENTIALLY, the staff must:

(1) Advise the various Engineering departments of opportunities for military sales.

(2) Assist in establishing both short-range and long-range military production programs.

(3) Coordinate all military quote preparations, assuring that the quote is realistically aimed at the customer's need.

(4) Prepare and disseminate reports on the current status of all military projects.

"IT'S AN EXCITING and challenging department," says Quilter, *"One in which we must constantly* be aware of our opportunities — and one in which we have a chance to perform a real service for all of us here at Librascope. . . . "

Quilter speaks highly of his departmental staff, noting that each man has "a service background which increases his understanding of military needs. . . ."

The staff must also have "the ability to make solid presentations to the military . . ." and "the technical knowledge that enables them to perform effective liason between the military and our engineering teams. . . ."

This then is why a military aircraft, or a ship, or a ground unit, will have an item of Librascope manufacture in its weapons complex: because Military Relations saw the need, suggested a solution, helped put the idea across, and played a part in the final delivery of the product.

DEPARTMENTAL SECRETARY — Janice Borkman has held down the Military Relations desk in Glendale for more than five years. Sooner or later, any piece of paper work that goes out of or flows into Military Relations, will cross Janice's desk.

KEEPING POSTED — Beverly Schutte helps Military Relations personnel compile and distribute the "Weekly Glendale Newsletter and Report," a survey of jobs proposed and in progress.

SHE HELPS TOO — Carol Mallasch is Military Relations' clerk-typist and chief load-lightener for the hard working staff.

Hawaii By Air

Manager Eileen Brown of the Precisioneer store is planning another vacation-by-air for Librascopers, this time to the Hawaiian Islands, Tentatively the plan calls for a two-week, all expenses included trip, for $300 or less. Those interested are invited to make reservations at the store.

The Librazette

Copyright 1960 by Librascope Division, General Precision, Inc.
808 Western Avenue, Glendale

Editor Bill Keith
Assistant Editor Earle Hawley
Art Editor Keith Kinnaird
Assistant Art Editor Paul Kane
Photographers Earl Crawford, Fred Beindorf, Jim Avera
Photo Layout Andy Cook, Jim Norwood

HANGAR FLYING? — Far from it. Senior Military Representative "Tex" O'Neill, left, and Military Representatives Bill Walker, center, and Ed Forgey describe application of one of Librascope's proposed airborne devices to fighter aircraft. Keeping abreast of military needs is key function of Military Relations personnel. Having a service background also makes it easier to understand and anticipate those needs. O'Neill is ex-Navy pilot, Walker an Army veteran, and Forgey an ex-Marine.

Barnett Cites 'Capability, Performance'

Overall direction and cordination of military relations emanates from Washington where Ralph Barnett has located the headquarters of our Military Relations department.

BARNETT BEARS the double duty of being both Military Relations Director and Manager of our Washington office. Two other offices of Military Relations, which function on a par with the Glendale office, are Maurie Johns' Dayton office and Colemon Goetz's Huntsville, Alabama, office.

Of the Military Relations department, Director Barnett says, "What we have to sell is capability and past performance. . . .

"THE MOST IMPORTANT part of this selling lies in establishing effective channels of communication. We must establish a level of confidence."

In Washington, Barnett heads a staff of six Military Representatives as well as Contract Specialist Kathleen Atkinson.

The Military Representatives are: Jack Dempsey, John Frye, Tom Hughes, Frank Matthews, Larry Paxson, and Art Westburg.

Definition of a knothead: One who heads the wrong way up the one way streets in the parking lot when he knows he's not supposed to.

MANAGER — Commanding Glendale Division's complement of Military Relations personnel is Manager Ed Quilter. An Annapolis graduate of 1931, Ed retired from the service in 1953 with the rank of Captain. During his long Navy career, he saw service on virtually every type of craft afloat. During World War II, he was skipper of the U.S.S. Kitkun Bay, a baby flattop (aircraft carrier). Ed, his ship and crew, made several invasions on the Westward trek from Saipan to Tokyo, suffered three separate kamikaze rammings, (suicide attacks by Japanese aircraft), and received the Presidential Unit Citation. At the time of his retirement in 1953, Ed was Captain of the seaplane tender U.S.S. Pine Island.

THE JUBILANT SMILE OF SUCCESS — A weapons device, suggested by Military Relations to meet a specific need, and presented to one of the Armed Services in concert with an engineering team, has resulted in a contract for Librascope. Military Representative Chuck Milner, left, gets the word via telephone from Manager Ed Quilter. Senior Military Representative Jim Snell, center, and Military Representative Dewey Nichols, right, share Chuck's elation. This trio saw wartime service in the Army, Navy and Marines respectively.

Sport News

Snollygossers Hold Big Lead

by Howie Bennett

Setty's Snollygossers lengthened their lead over the other nine teams to a commanding seven games, as the Librascope Swing bowling league finished the first half of the season. Closely bunched behind the leaders are the second-place Spotters, third-place Snafus and fourth-place, Bloopers with only a half-game separating each of the three.

The won-and-lost standings as of Jan. 23:

	Won	Lost
1 Setty's Snollygossers	47½	20½
2 Spotters	40½	27½
3 Snafus	40	28
4 Bloopers	39½	28½
7 Pick Ups	30	38
6 Gutter Rats	31	37
5 Holey Rollers	34	34
8 Mazel Kins	27	41
9 Musketeers	26	42
10 Moo Fooz	24½	43½

Kilroy's Klicks In Tight Race

by Fred Killips

As Librascope's mixed league bowlers moved into the second half of the Winter season, the race continued to get tighter and tighter. At the end of the 17th week of play the first-place Kilroy's Klicks led by only a game and a half and the second-place 4 Guys & A Doll had only a half-game lead over the Pin Busters and Exoidus, who were tied for third.

The won-and-lost count as of Jan. 21:

	Won	Lost
1 Kilroy's Klicks	42	26
2 4 Guys & A Doll	40½	27½
3 Pin Busters	40	28
3 Exoidus	40	28
5 Jennies Brood	38	30
6 Lucky Strikes	37½	30½
5 4 Hits & No Miss	28	30
7 Happy Five	35½	32½
8 Hapa Haoles	35	33
9 Carl's Cadets	33	35
10 The Rejects	31	37
11 Embalmers	31	37
12 Woodpeckers	29½	38½
13 Odd Balls	28	40
14 Sweepers	26	42
14 The Bandits	26	42
15 Sleepers	22..	46

Precisioneers Basketball

NEW LOBBY DISPLAY — Pretty Pat Enochs shows new display board, one of several which will soon form a part of the lobby decor at various Librascope buildings. Made of aluminum and translucent, colored plastic panels, the boards will have several four-color transparencies illustrating various Librascope products. A product of the Public Relations department, the displays will instantly familiarize visitors with Librascope achievements and potentialities.
(photo by Fred Biendorf)

Precisioneers 'A' Cagers Win Six Straight Games

Precisioneers' two basketball teams in the Burbank Industrial League are going "great guns" according to coaches "Tiger" Joe Mesch and Bob Bruce.

Coach Mesch found himself with enough talent to form "two great teams" at the start of the season.

"Bob Bruce answered the call for a second coach," Mesch reports. "He took over Precisioneers B. and is rapidly leading his boys down the path to winning basketball," the Tiger adds

Precisioneers A won six straight games in January, downing Collins Radio 62-37, Products Research 67-25, Precisioneers B 55-33, William Brand 74-24, NBC Ralph Edwards 62-20, and Stainless Steel Products, 57-30.

Precisioneers B won three, topping Stainless Steel 43-23, Products Research 35-32, and William Brand 57-35. Their four losses were to Weber Aircraft, 33-57, Precisioneers A 33-55, Pacific Automation Products 39-52, and to Collins Radio in a heartbreaking 53-54 game.

Shown above are "A" and "B" team members in a recent game.

Precisioneers A team members are: Neil Hinton, Nelson Manzanares, Ron Roderick, John Kennelly, Jim Arena, Don Mitchell, Tom Renaud, Chris Powell, Art Moreno.

Precisioneers B: Dick Johnson, Bob Curran, Jim Kostelecky, Bob Cottriel, Couley Arthur, Roy Johnson, George Dizon, Bill Buchanan, Kirk McCorkle, George Carpenter, Carlos Davila, Jerry Miller.

Librascope Division
General Precision, Inc.
808 Western Avenue
Glendale 1, Calif.

First Class Mail