WELCOME TO LIBRASCOPE—President W. E. Bratton and J. B. McKenzie, Manager, Staff Administration, Military Sales, were on hand at the heliport south of Bldg 16 to greet Captain T. J. Rudden, Jr., USN, Deputy to Admiral Raborn (second from right), and Commander M. H. Holt, Naval Liaison Officer of the Air Force Ballistic Systems Division, on their recent visit to Librascope. During their short stay, the Navy officials were shown the LOCS network in Bldg 1 and the Polaris facility in Bldg 17.

LIBRAZETTE

LIBRASCOPE DIVISION
GENERAL PRECISION, INC.

AN EXCHANGE OF NEWS AND KNOWLEDGE

Vol. 8, No. 9 April, 1961

Unveil Three New Products At IRE Show

● More on new Librascope products introduced at the IRE show—see page 6.

Product displays from Librascope and other GPI divisions were viewed by an estimated 80,000 people during the 1961 Institute of Radio Engineers (IRE) show and convention in New York, March 20-24.

Introduced by Librascope at the annual show were three new product lines—the Digilog-1011 converter; the Model 791-S converter; and SATE (Semi-Automatic Test Equipment), produced by Librascope and marketed by Downs and Company, Rancho Santa Fe.

The Librascope display also included the Shaft-to-Digital encoder lines from the Burbank Branch, and pictorial exhibits of most of the company's computer lines and component machinery.

A total of over 260 technical papers and 850 engineering exhibits were presented at the show, billed as the outstanding event of its kind in the world.

This year's convention was held both in the Waldorf-Astoria Hotel and the New York Coliseum.

Librascopers attending the show to participate in the various conferences were, from the Burbank Branch, Vice-Pres. and Manager R. E. Hastings, M. C. Hirsch, C. K. Krill, C. B. Slack, J. B. Bunnell, C. W. Smith, P. D. Shipp, Dr. E. C. Boycks, H. O. Jacobson, J. L. Cass, and H. M. Harrison;

From Military Sales, P. L. McGiven and Chris Mannschreck;

From Division Public Relations Dept., M. N. Cannon, D. A. Johnson, and F. E. Bristow;

Les King, from Downs and Co., joined the group to aid in manning the SATE display.

FIRST WINNERS — Librascope vice-president D. C. Webster (right) and T. D. Bryant, Glendale branch manager (left), present a check for $50 to J. L. Deitz who, along with J. E. Riddle (lower right), were co-recipients of the first award under the Employee Incentive Writing Program. Deitz and Riddle authored a paper entitled, "Packaging Requirements for a Submarine-Borne Digital Computer," which they presented at the 1st International Packaging Symposium. The Deitz-Riddle paper has also become a feature article in the upcoming issue of the Librascope Technical Review. For more on Incentive Writing Program, see page 7.

Education Refund Program Hits New High During 1960

Employee participation in the Librascope Educational Refund Plan reached a new high in 1960, according to recent figures released by the Division Training Department.

Total dollar refund for 1960 more than doubled its 1959 counterpart, climbing to $15,488, with 165 Librascopers participating in the popular benefit program. Average 1960 costs for each of the 274 courses completed came to $56.53 per course.

MORE THAN HALF of the 1960 participants were enrolled in technical courses. And of the 20 schools attended by Librascopers, UCLA received the largest percentage, with employees signing up for 140 courses at the Westwood campus.

Figures for 1961 reveal that there are currently 244 courses underway as part of the refund program. Total refund for these courses is expected to exceed $11,000.

Each year since its inception in 1953, the educational refund program has gained impetus, with each annual attendance figure topping that of the previous year, according to W. P. Strong, Division Director of Training.

And although it is still a little early for summer and fall enrollment, Strong said, it isn't too soon to begin planning a schedule for future semesters.

FOR NEW EMPLOYEES or for those who haven't previously participated in the program, here is how it works. Secure an Educational Refund application from the Training Section. After completing the form, submit it to your supervisor for approval. Then, following successful completion of the course (a passing grade), tuition costs will be refunded.

TAKING A LOOK AT LOCS—Air Force Lt.Col. Jamie Wallace (standing second from left) takes a look at the RPC 9000, heart of the LOCS Center in Bldg. 1, during recent tour of Librascope. Lt.-Col. Wallace is Special Assistant to the Director for ICBMs at the AF Ballistic Missile Div., in Inglewood. Accompanying the colonel on his tour were (from left standing) J. C. Hill, of GPI's Los Angeles office; G. B. Clark, Manager, Glendale Industrial Engineering; and R. R. Williamson, Division Director of Military Sales. At the RPC 9000 controls is Industrial Engineer G. J. Tait.

Lost-Time Injuries Mar Safety Record for Early '61: Hamrick

Four disabling injuries on the job has marred Librascope's safety record for the first two months of 1961, W. E. Hamrick, Division Safety Coordinator, reports.

The lost-time injuries, one in January and three in February, raised the Accident Frequency Rate at Glendale Plants to 4.11 compared to both the .67 record 1960 rate and the perfect record for the first two months of last year.

However, Hamrick said, injuries without loss of time are down from a year ago, 334 compared to 493. First aid treatment for employees also saw a favorable decline, down Jan-Feb of this year to 1,743 against 2,538 the same period in 1960.

"IT WILL TAKE a genuine concerted and individual effort on the part of all of us to overcome the bad start we have on lost-time injuries," Hamrick stated. "But since the accident frequency rate is based on man-hours worked, it is still not too late to establish a good safety record for 1961."

"Everyone, out of respect for themselves and other employees, must measure up to Librascope's past record of safe working by being alert to improper work-habits and plant safety hazards," he said.

ON THE BRIGHTER SIDE of the picture, Hamrick reported the following safety actions have been taken as a result of recent recommendations by the Librascope Safety Committee:

- The hedge row between Bldg I-03 and the main parking lot has been lowered to improve visibility for both drivers and pedestrians.
- An additional time clock has been installed in Bldg A-18, and the time clock and card rack in Bldg A-17 have been reversed. Both moves were made to improve the traffic flow around these two points.

Biltmore Hotel Site of May 6 Spring Dance

Tickets are now on sale for the Precisioneer's Annual Spring Dance to be held Sat., May 6, from 8 p.m. to 1 a.m. in the Biltmore Hotel Ballroom in Los Angeles.

All Librascopers and their guests are invited to attend this first social function scheduled by the 1961 Precisioneer staff.

Tickets are $1.25 each and are available now from all Precisioneer officers and building representatives.

Dancing to the Bill Steers Orchestra will begin at 9 p.m., with a special trio from the orchestra entertaining from 8 until dancetime. Door prizes will be offered as a special feature of the evening.

W. K. Cawthra, chairman, Precisioneer Social Committee, and his assistant, Elizabeth Wiseman, are handling all preparations and arrangements for the affair.

Precisioneers Bulletin

Weekly bulletins to inform Librascopers of Precisioneer activities will begin appearing on all bulletin boards this month.

The official bulletins, trimmed in Precisioneer colors of blue with gold, will contain advance notice of the organization's social and sport events.

LIBRAZETTE

GENERAL PRECISION
LIBRASCOPE DIVISION
GENERAL PRECISION INC. GLENDALE 1, CALIFORNIA

LIBRAZETTE is published monthly by the Employee Relations department for the employees of the Librascope Division, General Precision, Inc., under U.S. copyright, at 808 Western Avenue, Glendale, Calif.

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Cost Reduction . . .

To retain our competitive position, Librascope must bring down its costs.

We must examine every phase of our operation with a supercritical eye in a search for ways and means by which cost reduction can be accomplished.

It's a job for everyone in the organization—not just those who have cost-reduction and work simplification as an everyday assignment.

The potential areas where cost-reduction can be accomplished are as numerous as the working units of the Company. They are not limited to manufacturing and materials-handling, the traditional focal points of cost-reduction.

It is just as possible to find ways of doing things as well, or better, and at less expense, in engineering, administration, maintenance and other non-manufacturing areas, as it is on the assembly line or in the machine shop.

We invite the help of every employee in this effort. Look about you for opportunities to make meaningful savings. When you find them, report your recommendations to your Supervisor or Department Manager. You'll find them receptive.

Cost reduction has top priority. Each of us should consider it as an important part of our regularly assigned work.

LECU:

A Group With A Dual Purpose

"It's like money in the bank—only better."

So stated Jess Pack, board member of the Librascope Employees' Credit Union, when asked for a brief appraisal of LECU.

"The aims of the Credit Union are twofold," Pack stated. "It has been organized so that employees and their families can earn a substantial dividend on their investment and, since it is a non-profit organization, every employee can get a loan at a lower rate of interest than they might find elsewhere. It is as simple as that."

To substantiate his claim, Pack went on to answer a series of questions about the Credit Union during a special interview for LIBRAZETTE.

Q: Just what is the Librascope Credit Union?

A: The Credit Union is a nonprofit corporation created for employees to pool their money, learn to save the thrifty way and borrow money at a low interest rate, while still drawing a dividend on their own savings.

Q: Who does the Credit Union belong to?

A: It belongs strictly to the employees and their families. It is completely owned and operated by its members. It is a nonprofit corporation chartered and audited by the State of California. Any "profits" made by the Credit Union belong to its members and are divided as share dividends or loan interest rebates among the members.

Q: Who may join the Credit Union?

A: Membership is open to any Librascope employee as well as any member of his immediate family living at home. The employee, however, must be a member before any of his family can join.

BOARD MEMBER PACK

Q: What is the procedure of becoming a member?

A: Simply fill out a form at the Credit Union office, in Bldg 3. There is an initial 50-cent charge to join. This fee is placed into a guaranty fund for bad debts. In addition, a new member must agree to buy at least one share of Credit Union stock. Each share is $5.00.

Q: Who operates the Credit Union?

A: The governing body of the Credit Union, elected by vote of the membership at the annual meeting. This group consists of a 7-man Board of Directors, three members of the credit committee and a supervisory committee with three members. Day-to-day management and operation of the Credit Union is directed by Dorris Eberle, CU secretary-treasurer. She and her staff take care of all credit union books and records. In addition, Mrs. Eberle handles monthly reports to the Board and the insurance company and at the end of the year, makes a complete annual report to the State of California.

Q: Does an employee have to be a member of the credit union in order to obtain a loan?

A: Yes. Under State law, the Board of Directors has to pass approval on all membership applications.

Q: How long does it take for a loan to be approved?

A: It varies, depending on the type of loan. Each request is presented to the credit committee, which meets twice weekly for loan approvals. Generally, loan applications submitted by Wednesday evening will be approved the following Friday, provided all needed information is on the application. That is another good reason for the prospective borrower to come in person to the Credit Union office to apply for a loan. I should point out, however, that all loan policies are subject to change by the State or our Board of Directors at any time it is deemed beneficial to members.

Q: Are loans insured?

A: Yes, all credit union loans are insured. This means that in the event of death or total disability of the borrower, the unpaid amount is cancelled, thus relieving the surviving family of an added burden. Cost of this insurance is included in the low interest rates charged on our loans.

Q: Is there a specified way for employees to deposit money in their savings account?

A: Not really, although most members deposit by payroll deduction. A member, however, may de-

(Continued on Page 7)

Employee Benefits

$3 Million for Time Not Worked

(This is the second in a series of articles outlining policies, scope and value of the benefits Librascope provides its employees—Ed.)

The largest group of benefits at Librascope, measured in dollars and cents, is money paid to employees for time not worked.

During 1960, payment by Librascope for this one area of benefits alone amounted to an average of 38¢ an hour or $794.41 a year for each of us.

Included in these time-not-worked benefits are coffee breaks, paid vacations, paid holidays, sick pay, and time off with pay for jury duty and military reserve duty.

Like most benefits, payment for time not worked has become an expected income for employees. Most of us take for granted this money will appear on our weekly paychecks, but few realize exactly what this means as an expense to the company.

Figures just released by A. R. Pederson, Benefits and Services Supervisor, show the total cost for this one group of benefits was slightly over $3,000,000 last year.

Against all other benefits offered at Librascope, the time-not-worked group accounts for 44 per cent of every benefit dollar spent.

The approximate yearly totals for each were:

Coffee Breaks	$1,061,400
Paid Vacations	917,763
Paid Holidays	689,053
Sick Pay	463,091
Military Reserve	12,243
Jury Duty	11,392
Total	$3,154,942

Aside from the actual money we receive, the time-not-worked benefits also represent the arrival, in net figures, of the 35-hour week.

Averaged over a year's time, we receive pay for 40 hours a week, but actually work less than 35. This does not take into account time off for jury duty and military reserve.

Consider for example that you receive pay for 52 weeks a year, 40 hours a week or a total for the year of 2,080 hours.

Your total gross time	2080	hours
Less 2 weeks vacation	—80	
	2000	hours
Less 7 paid holidays	—56	
	1944	hours
Less 6 days sick leave	—48	
	1896	hours
Less 20 minutes each of the remaining 237 workdays	—79	
Total net hours worked	1817	hours

By dividing 52 into the 1817 hours a year, you come up with 34.9 hours per week actually worked.

Two weeks of paid vacations (three after ten years service), seven paid holidays, six days sick leave for hourly employees, as well as the daily coffee breaks, make up the major and generally well-known portion of the time-not-worked benefits.

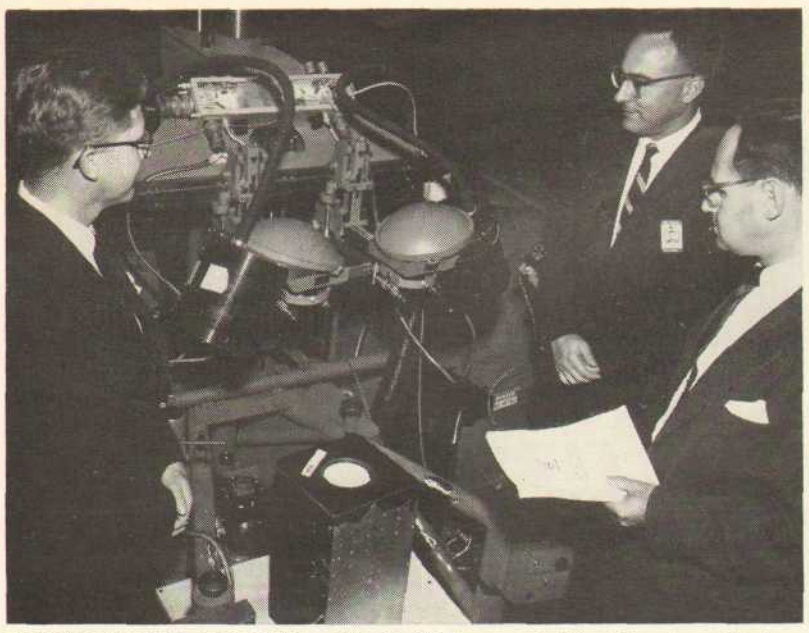
Probably not so well-known and understood are the remaining portions of this group.

For one, there is jury duty. Here, Librascope pays the difference between the employee's salary and the token amount received from the court. No employee has to suffer financial hardship when called upon to fulfill his duty as a citizen.

For those who must attend military reserve training camps, special schools or other reserve activities, Librascope makes up the difference between the base salary of the employee and his pay allowances received from the Government.

Along with the overall benefits picture, the time-not-worked area has, in recent years, enjoyed an expensive growth at almost twice the rate of base wages.

As employees, we often judge a company today by its benefits program as much as by the wages and salaries offered.



VIEWING THE PLOTTER—W. J. Wichman (left), Director, Electro-Mechanical Equipment Section, Senior Engineer R. T. Shone and M. M. Birnbaum, Senior Engineer, Electronic Design, look over the Automatic Contour Plotter, designed and developed by Wichman's group. Still in the experimental stage, the plotter was the subject of a paper presented by Birnbaum at a recent photogrammetry conference in New York.

Contour Plotter Featured At Photogrammetry Meet

Photogrammetry, an exacting yet diversely defined science, was the subject of five days of professional interchange during the 27th Annual Meeting of the American Society of Photogrammetry, held Mar. 19-25 in Wash., D. C.

A major topic of interest at the conference was Librascope's Automatic Contour Plotter, developed by the Electro-Mechanical Equipment Section of the Sunnyvale branch.

THE PLOTTER, developed under contract to the Air Force's Rome Air Development Center, Rome, N.Y., was introduced to the more than 2500 engineers and photogrammetrists via a paper co-authored by M. M. Birnbaum, Librascope Senior Engineer, Electrical Design, and Robert Shearer from RADC.

Discussing the equipment both in its general aspects and its technical capabilities, the authors presented a future look at a high-speed plotter, capable of automatically extracting contour and plotting information through a process of double projections of aerial photos. Still in the experimental stage, the Librascope-RADC joint effort is one of the earliest experiments into the field of automatic contouring.

Also in attendance at the conference was Senior Engineer Robert T. Shone, a specialist in the field of photogrammetry.

SHONE, A RECENT addition to the Electro Mechanical Equipment staff, attended the conference in a dual role, representing both Librascope and the Southern California Region of Photogrammetry, of which he is president. In joining the electro-mechanical section, Shone brings with him a fund of experience in photogrammetry, further extending Librascope's growing interest in this field.

FORMERLY WITH Ramo-Wooldridge, Shone was a Member of the Technical Staff, assigned to photo design and applications in the photo systems section. He also spent five years with Bausch and Lomb Optical Co., Rochester, N.Y., as manager of the photogrammetric section, conducting work on military optical systems.

A graduate of Syracuse University, Shone received his B.S. in forestry, then went on to take a Master's degree in photogrammetry. Married and the father of one child, he now makes his home in Canoga Park.

Insurance To The Aid Of Lugo Family

When misfortune strikes, it seems to come in bunches.

For Mary Lugo, General Assembler, Glendale Branch Processing, Wiring and Assembly, the "bunch" would have been an expensive financial burden—except for Librascope Group Insurance.

MRS. LUGO has received a total of over $800 in the past few months from Group Insurance payments, both for herself and her family.

She missed several weeks of work recently and underwent medical treatment for bronchitis. Now, back on the job, she is still under treatment by her doctor. But Group Insurance took care of a major portion of her medical bills plus sick pay for the time she was unable to work.

In the midst of her own illness, her 16-year-old son, Tony, was stricken last month with appendicitis and rushed to the hospital. Again Group Insurance came to the aid of the Lugo family, and paid all but $77 of the total $659 expense for Tony's operation and hospitalization.

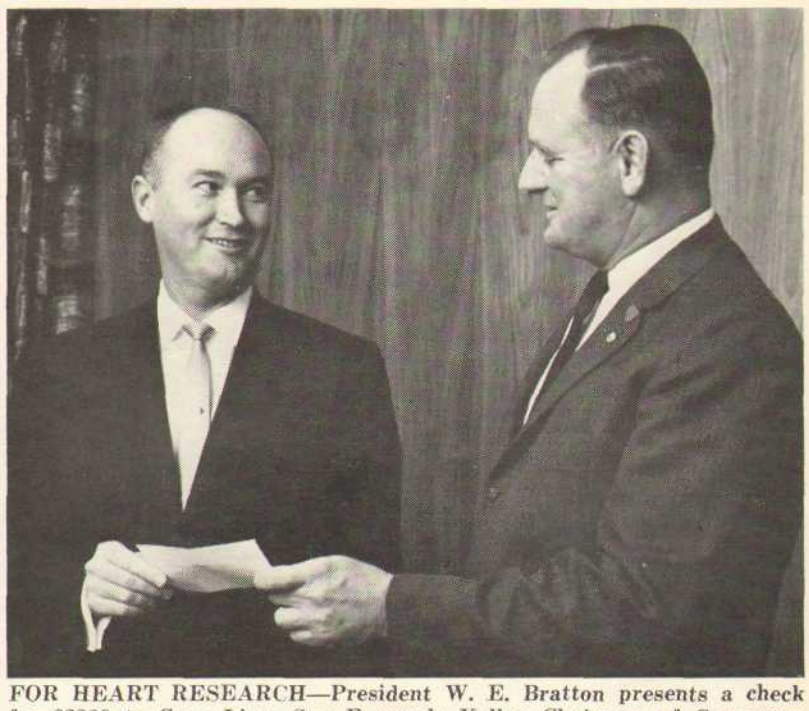
Tony Lugo's recent encounter at the Glendale Memorial Hospital was filmed for a Channel 7 television show, May 2, at 7 p.m. Other members of the Lugo family will also be seen on the show, a charity presentation for the hospital.

"I DON'T KNOW what we would have done without the insurance," Mrs. Lugo said. "I guess we would have had to borrow the money somewhere to pay for all the doctor bills we've had lately."

"I'm just thankful to be working at Librascope where they have such wonderful insurance," she stated.

Science Fair Judge

Wayne Blackburn, Division Director of Applied Research, will serve as a judge in the Senior division of the First Annual Glendale Schools All-City Science Fair, to be held April 6, 7 and 8 at Glendale Civic Auditorium. Students from 21 elementary, three high school and five junior high schools in the public school system and from several private and parochial schools, have been invited to take part.



FOR HEART RESEARCH—*President W. E. Bratton presents a check* for $2229 to Gene Lipp, San Fernando Valley Chairman of Commerce and Industry for the Los Angeles County Heart Association. The donation, presented in behalf of the Librascope Employees' AID Club, was made in conjunction with Heart Association's annual nation-wide drive to obtain heart research funds.

New Number System Created For All Librascope Buildings

A revised numbering system for every building and office facility used by Librascope has been completed by Division Plant Engineering. J. L. Palmer, Divisional Plant Layout Supervisor, piloted the revision project.

The number changes, effective February, reveal by initial the branch to which the building belongs; the floor space of the building by the size of the number.

THE INITIAL PRECEDING the number is translated as Division (I), Glendale Branch (A), Burbank (B), Sunnyvale (C), Aerospace (D), and Eastern Branch (G).

Numbers from 0-49 indicate buildings exceeding 4,000 square feet; 50 and above indicate less than 4,000 square feet.

The revised system was initiated by Division Property Control to provide more positive means of controlling capital assets. Said E. A. Barrios, Property Control Administrator, "Exact designations for all structures help us to locate capital equipment more quickly and to determine more accurately our insurance needs and tax rates on all buildings."

STANDARDIZATION of the numbering formula (one letter followed by two digits) was required to supply Data Processing with information needed for accounting purposes, Palmer explained.

In most cases, the change in numbering involved only the addition of the code letter at the front of the old number. Others were changed to conform to the square footage key now required.

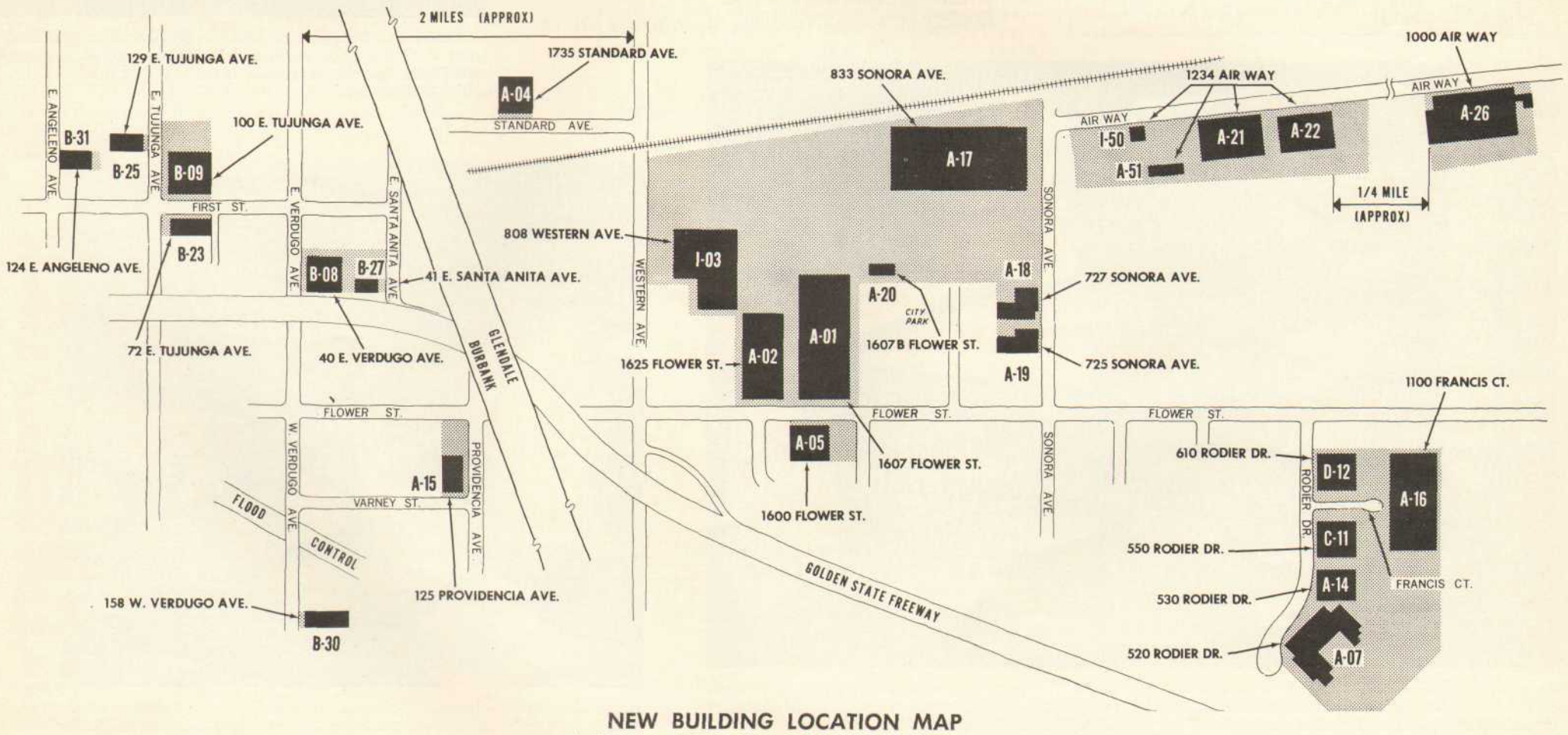
Our facility in Puerto Rico, Number 24, was the only building unchanged.

OTHER SMALL buildings and facilities that formerly were identified only by title or description now have their own numbers.

This group includes all Division Regional offices in Los Angeles (I-69), Dayton, O. (I-70), Washington, D.C. (I-71) and Huntsville, Ala. (I-74); all guardhouses, canteens and the various annex buildings.

Riddle To School

J. E. Riddle, senior packaging designer, Glendale Engineering, recently completed a two-week course in electronic packaging at UCLA. The intensive course covered environmental influences, configuration, miniaturization and microminiaturization.



NEW BUILDING LOCATION MAP

. . . reveals change in numbering system and recent building additions.

Librascope's Countdown...

If everything had gone as in the past, taking the company inventory of fixed assets which began at Librascope in February would still be in full swing.

Instead, it is already completed.

The use of portable tape recorders, introduced this year to count and label approximately 20,000 items of Librascope capital property, has shaved inventory time from three months to six weeks.

THE STREAMLINED METHOD of inventory-taking was given its trial run by Division Property Control, one of three sections of the Accounting Department directed by Assistant Controller Mildred L. Huggins.

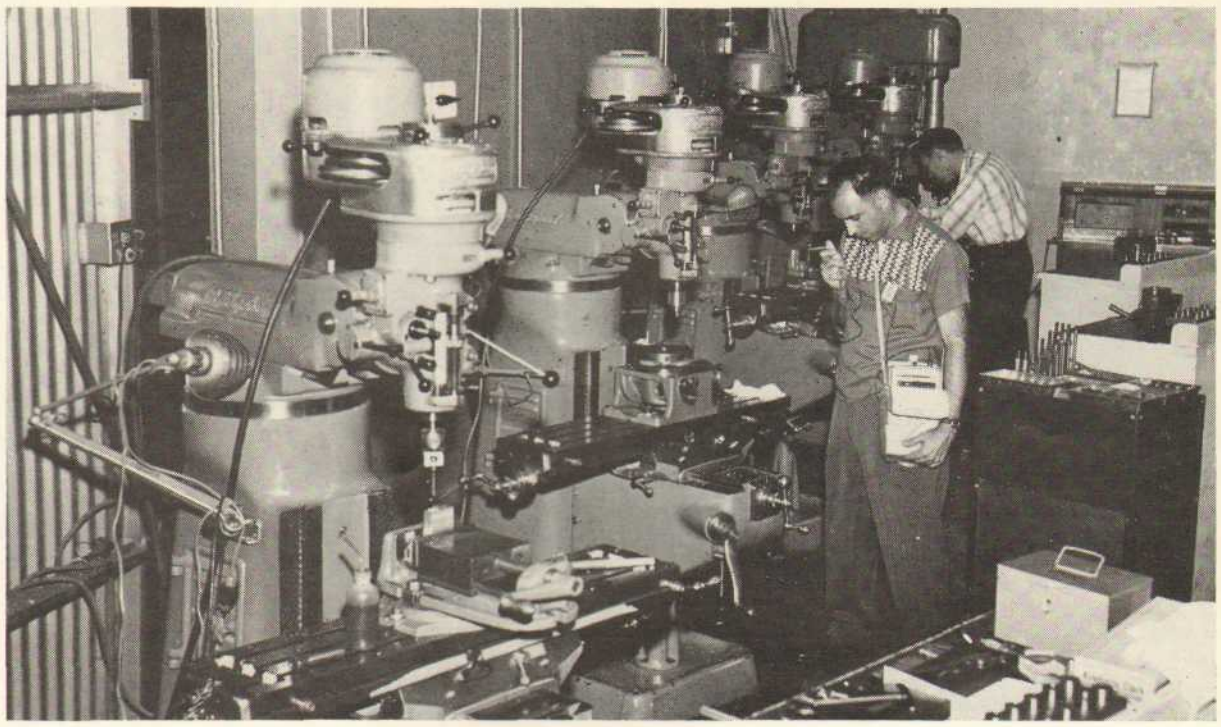
E. A. Barrios, Division Property Control Administrator, submitted the proposal for use of tape recorders and describes results of the recent trial run as "very successful."

Time-savings with the recorders, including equipment learning time, was possible even though a new step was added to the latest inventory—that of incorporating new department numbers into the description of all equipment.

COST-WISE, an overall economy was realized in spite of the purchase of new equipment. At least $2,000 is expected to be cut from the cost of each future inventory count.

Here's how the new method works.

Under the general coordination of R. E. Laperle, Division Property Control Supervisor, two men, equipped with portable tape recorders, are dispatched to the various company buildings to do the counting.



THE LINE-UP—J. H. Rocha works down an impressive row of drill presses while taking inventory in Bldg A-14. To properly count an item, Rocha describes the equipment, gives its location according to room, building, department and branch, and then tells the asset number, recording as he goes.

The counters, J. H. Rocha and H. N. Blakeley, search through every Branch and Department, every basement and attic of Librascope to account for all items of company capital property. All leased property and certain government-owned property is counted, too.

THE TWO MEN, working independently, proved they could cover twice the ground in half the time that formerly was needed by two-man teams working against a paper check-list.

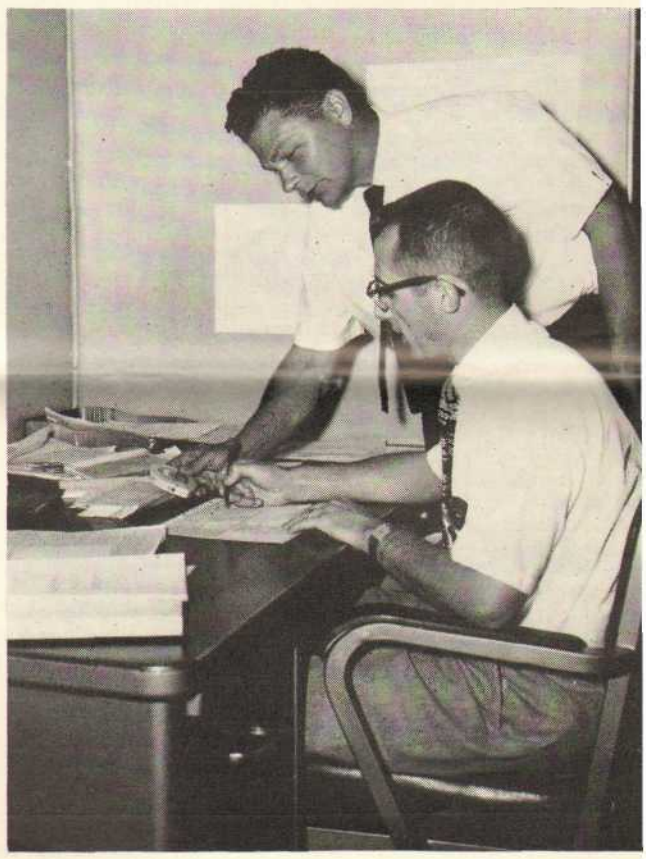
The counters, as they search, transcribe on tape verbal descriptions of the equipment, its asset number and its location according to Branch, Department, Building and Room.

(In the future, Property Control people expect that only numerical code numbers will be utilized by the recorders, further speeding the operation.)

These tapes are then monitored in the Division Property Control office by a clerk using a transcribing machine, checking against a master file of data processing cards. During the recent inventory count, new department numbers for all accountable property were recorded on the cards.

A REVISED UP-TO-DATE master file of cards is then prepared by Data Processing from information received from the monitor.

Missing or uncounted items of inventory are re-



COORDINATORS—R. E. Laperle (seated) Division Company Property Supervisor, and Accountant W. H. Robinson coordinate the company-wide inventory process from their office in Bldg I-03.

Why Take An Inventory?

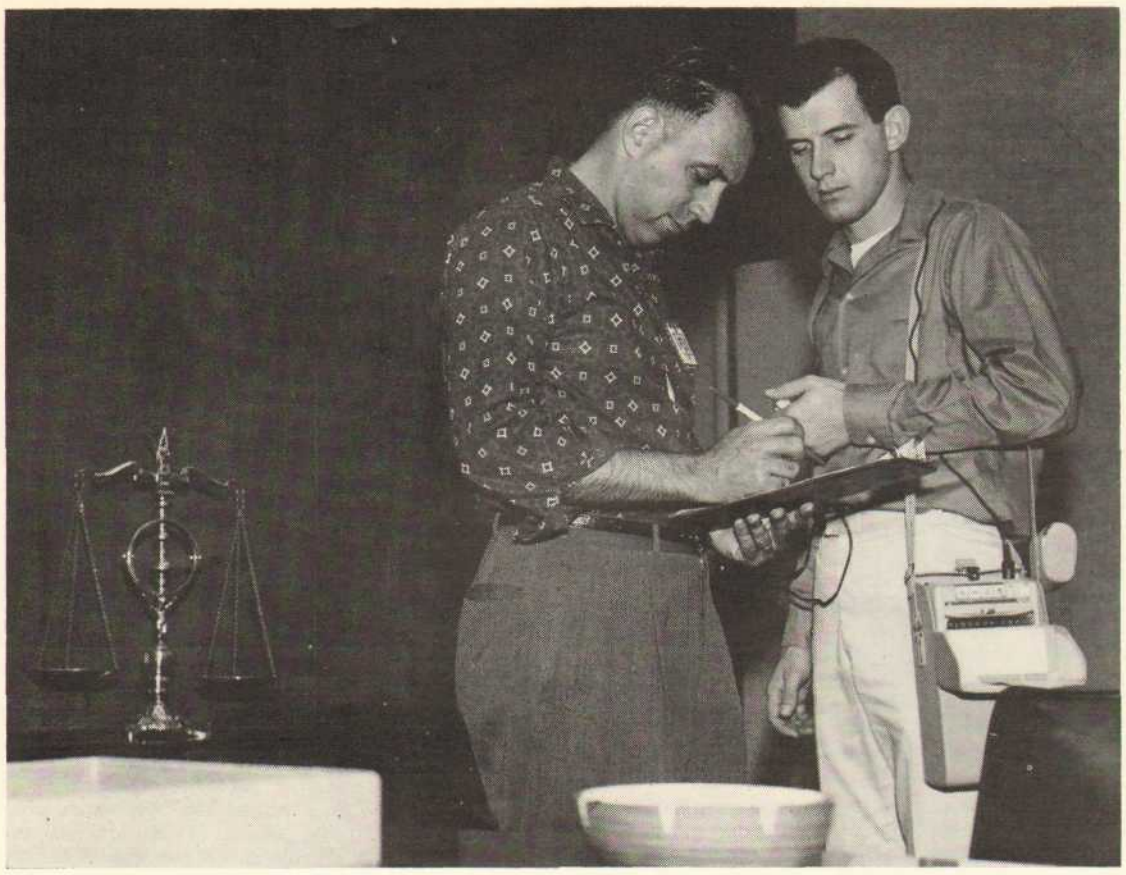
Taking inventory makes dollars and sense.

Working to save Librascope money in many areas in many ways, a good inventory:

- makes possible a more effective allocation of present equipment where it is most needed, which in turn
- reduces the amount of capital expenditures by making better use of what we already have, which in turn
- reduces taxes, since capital outlay means more spent on taxes, and also
- reduces insurance costs, since the more equipment in a building the higher the rates, and most IMPORTANT
- is essential in planning for the future, since inventory information concerning capital equipment, its depreciation costs and other data must be considered in every budgetary estimation when seeking new contracts or reporting on the status of present ones, all proof that taking inventory
- is an important, recognized "nuts-and-bolts" part of business organizations today seeking a more efficient and successful operation.

KING-SIZE KAMERA—The huge Process Camera at the Photo Lab is a drastic departure from the common conception of cameras and represents a sizeable piece of capital equipment. Fred Beindorff, photographer, and Toby Moll, photoplate control specialist, inspect negative of ML (master layout) as Rocha records for inventory.

MISS MONITOR—Donna Pinkstaff, of the Property Control Office, listens to tape transcriptions made by the inventory-takers and checks against the master card file of capital assets.



SEARCHING, COUNTING—J. H. Rocha (left) and H. N. Blakeley, in their step-by-step process to count and record all items of capital equipment check the office of President W. E. Bratton for furniture asset numbers.

TRIAL RUN A SUCCESS—Mildred L. Huggins, Division Assistant Controller, and E. A. Barrios, Property Control Administrator, examine final process—cost sheets—of the recent inventory taking. Use of tape recorders for the first time this year proved a savings both in time and cost.

...Our Tape-Measured Inventory

vealed by cards left over in the monitor's master file.

A recheck is made to determine whether the property was overlooked in the counting or is missing. Working closely with the Branch last known to have the equipment, Property Control makes every effort to determine the whereabouts of the item.

The policy at Librascope, Barrios said, allows a three-year waiting period as the maximum time for the equipment to turn up before it is written off against the Branch involved.

FROM THE REVISED master card file, Data Processing then prepares cost sheets listing all items, their depreciation and other applicable financial information.

These lists, which show all equipment in the Division and each Branch, are turned over to controllers for use within their own internal property control procedures.

Supplemental lists are also made according to the capital equipment classification code. By code numbers these lists show, for example, how many desks Librascope has throughout all its facilities, where each is located, individual depreciation and other financial information required.

"FASTER METHODS of counting with tape recorders will permit perpetual inventories with three complete cycles each year and a better control of all company property." Barrios said. A maximum of two cycles a year was possible before.

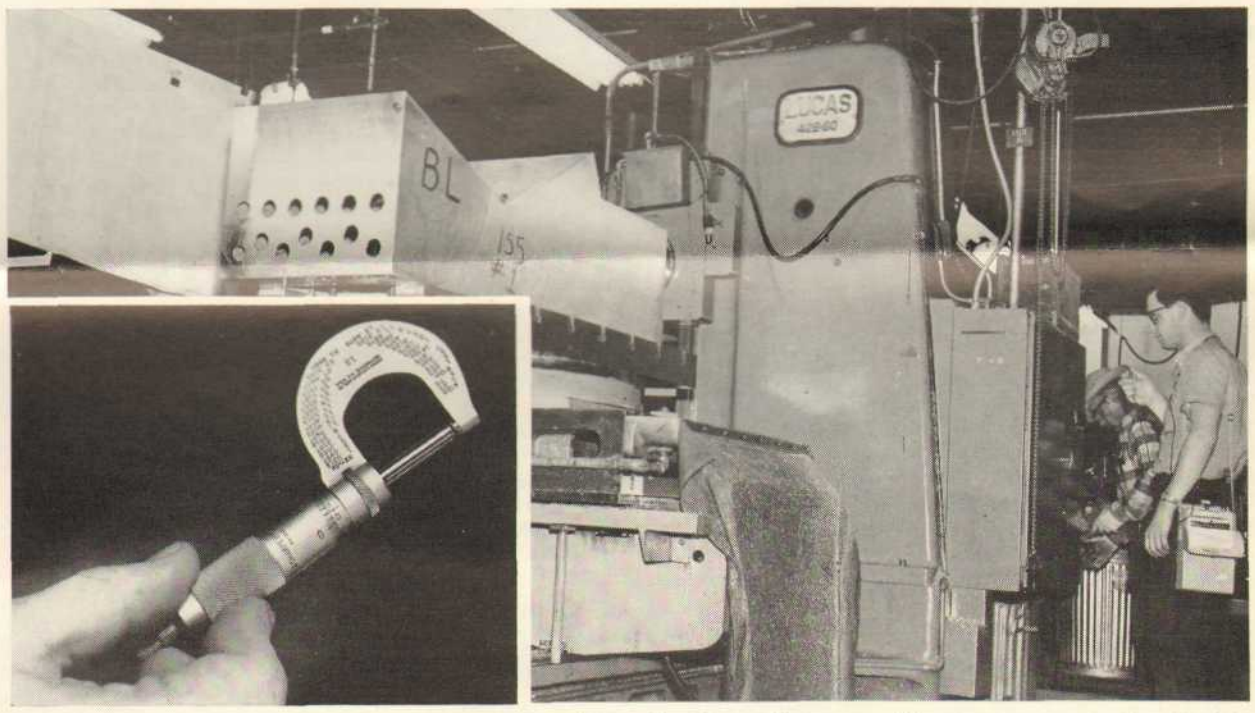
Formerly, one persistent trouble spot of taking inventory was that of missing or double-counting property moved between buildings during and after the counting.

"We now move fast enough through the company with tape recorders so that this problem is virtually eliminated," Laperle said.

POINTED UP in the recent inventory count, Laperle added, was the need for promptness on the part of Branches to turn in property and equipment currently not in use. He emphasized that this unused property adds to depreciation expenses for the Branches.

This unused equipment, when turned in, is stored by Division and then reallocated as other requirements come in through budgets. The need to purchase new equipment is reduced.

"Results of this first trial run using the tape recorders has been very successful," Barrios said. "Future use of the method should yield continued cost and time savings for Property Control with the ultimate goal of key punching directly from the transcribing machine."



MIGHTY AND MINUTE—Over 20,000 items of capital assets at Librascope range in size and function from the huge Lucas Boring Mill in Bldg A-01 to the micrometer (inset) used for precision measurements by Quality Control.

FROM THE PAST—Machinery and equipment from Librascope of yesterday now reside in storage at the Bldg A-04 warehouse. Some of it must be counted for the complete inventory of the company.

. . . So Grows The Inventory

Approximate figures show the growth of capital assets in relation to the growth at Librascope over the past six years.

1954	1960
500 people in 5 principal buildings, 4,000 items of capital assets	4,000 people in 31 principal buildings, 20,000 items of capital assets

WHILE WORK GOES ON—In the Clerical Services Section, Glendale Branch, Dolores Helen (left) and Mary Hendrix work unheeded as Blakeley makes a check on the office's typewriters, desks, chairs and other items of capital assets.

ONE 1011—C. B. Slack, manager, Industrial Systems Development Group, Burbank Branch, examines plug-in circuit card of this first model of the Digilog-1011 Converter which he designed and developed.

New Digilog-1011 Converter Makes Debut at IRE Show

Making its public debut in GPI's corner of the recent IRE International Convention in New York was a new electronic device from Burbank Branch—the Digilog-1011 Converter.

Designed and developed by C. B. Slack, Manager, Industrial Systems Development Group, the Digilog-1011 was one of three new pieces of equipment introduced by Librascope at the annual engineering show.

THE 1011 CONVERTER is the first of a new line planned for production by the Burbank Branch.

Basically, the function of the 1011 converter is to transform analog information (information existing in a continuous form) into digital representations that can be fed into a computer.

FOR EXAMPLE, Slack explained, the Colorado Public Service, which has computerized gas dispatching through the use of a Libratrol-500, must, for their operation, convert the variables of gas flowing through a pipe to digital representations for the computer. This is a job for the converter.

The 1011 is capable of both digital-to-voltage and voltage-to-digital conversions and has applications with digital or analog computers, logging systems and storage units.

Features of the new converter include highly-reliable solid-state construction, simplified circuitry (in terms of present engineering standards), and plug-in card arrangement for easy access to any part of the device.

SLACK, WHO HAS been with Burbank's ISD Group for nearly three years, began the Digilog-1011 project about a year ago.

Primary justification for its development was for application with the Libratrol-500 and -1000 computers which are also manufactured at the Burbank Branch.

The new device also has applications with other equipment throughout the field of instrumentation, Slack said.

Pope Named to Sunnyvale Post

George J. Pope was recently named to fill the newly-created position of Cost Accountant with the Sunnyvale-at-Glendale. Pope reports to W. H. Burns, Branch Accounting Supervisor.

In his new position, Pope handles all accounting activity for Sunnyvale's Ground Systems Department.

Prior to his promotion, Pope was Coordinator for Rejected Material in Glendale Branch Purchasing. He joined the company in 1954 as a parts mover.

SATE Introduced at IRE Convention

SATE, the new high-speed, semi-automatic test equipment designed to conduct accurate, volume testing of semi-conductor devices, passed its prototype preliminaries with flying colors and is now ready for production, according to L. L. Wolman, Chief Engineer, Ground Systems Department, Sunnyvale branch.

Designed and manufactured by the Ground Systems group, SATE was one of three Librascope products introduced at the recent IRE Convention in New York. When placed in production, it will be marketed by Downs and Co., Inc., an electronic test equipment firm with headquarters in Rancho Santa Fe, Calif.

With the present wholesale use in the electronics industry of transistors, diodes and fixed resistors, a need arose for a reasonably priced piece of equipment capable of testing the various semi-conductor devices with speed and a high degree of reliability. Such a unit is SATE.

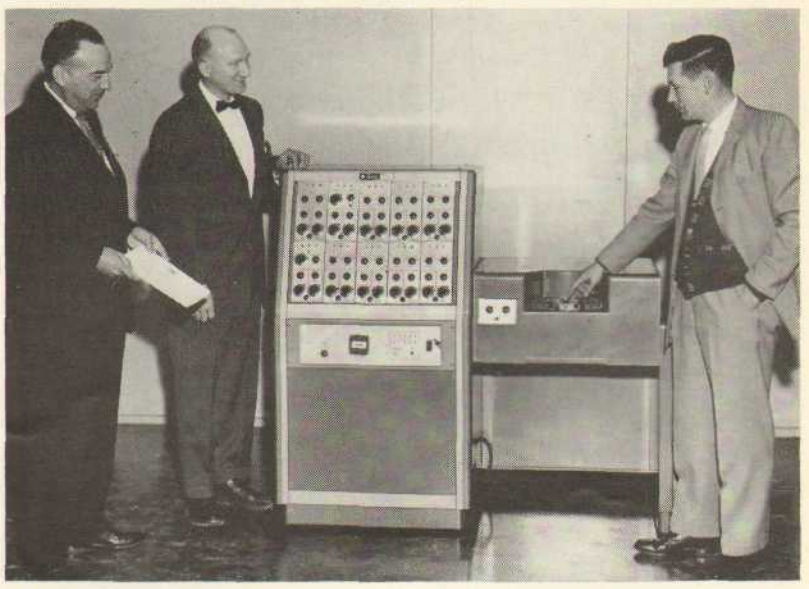
A high-speed, programmable testing device, SATE can simultaneously evaluate any combination of up to 10 components of static parameters at rates up to 1800 units per hour. Simple in design and operation, the new testing unit permits a relatively unskilled person to test rapidly the electronic components, yet still meets the rigid requirements of customer or manufacturer.

Incorporating two major assemblies, SATE consists of an electronic console and a mechanical handling console. The electronic components are manually fed into a moving turntable on the mechanical handling console. Following manual insertion, however, the entire testing operation becomes an automatic function.

As the turntable revolves, the components pass through ten test stations along the periphery of the console. Each station is programmed to make various parameter tests, predetermined by the electronic console portion of the unit.

If, at any one of the stations, the component fails to meet the testing requirements, it is automatically rejected into a bin below the station. If the component passes the ten tests, it is dropped into an eleventh station, signifying an acceptable part.

SATE, employing the principle of parallel testing, allows the operator to continually feed new components into the machine without having to wait for each component to run the entire cycle of testing. In terms of cost-reduction and man-hours saved, SATE achieves a ratio of 10 to 1 over manual, bench-testing operations.



SATE SHOWN—Les King (left), President of Downs and Co., looks over completed prototype of SATE the new high-speed test equipment unit, with Elmer Zuehlke, Sunnyvale Ground Systems staff engineer and Cliff Moore, project manager. It was one of three Librascope products introduced at the recent IRE show in New York.

Emery Promoted

The first day of Spring was a good one for Senior Engineer Warren K. Emery, as he was named Test Lab Supervisor for the Reliability Department. His new duties will include supervision of personnel and environmental test programs for the Reliability sub-section.

A fairly new face at Librascope (Jan. '61 LIBRAZETTE), Emery came to Reliability from Hughes Aircraft Co., where he spent six years as a member of the technical staff of product assurance and systems installation.

New FACT Unit To Cut Costs In Circuit Testing

A remarkable new machine which will test electronic circuitry of Librascope's complex fire-control systems on a virtually automatic basis will be put into operation this month on production lines in Glendale's huge Bldg 17.

CALLED FACT (for Flexible Automatic Circuit Tester), the machine was specified by the Glendale Production Test Equipment section to cut costs in the final checkout process. FACT, built by Hughes Aircraft, costs $44,000, but will pay for itself on the first production contract for SUBROC, according to C. D. Bryant, Supervisor of the production test equipment section.

The FACT's programming is handled by punched data processing system cards, using standard coding and does not require a specially-trained operator. The card-puncher works from a detailed instruction sheet prepared by a programmer who draws his information from an analysis of the design drawings and methods sheets for the item to be tested. Design changes are easy and simple to incorporate, because only those cards affected require correction—not the whole program. Over-all programming speed is much faster than in existing commercial test equipment.

"**THE MACHINE** is always ready to work, because the cards contain all the information it needs to operate," Bryant said. "It can handle up to 2,400 circuits in any combination and in any sequence. Malfunctioning circuits are indicated on a readout device and the cards representing malfunctions are separated as the testing progresses, into their several types, apart from those representing 'OK' circuits.

"The cards pinpoint the source of malfunction right down to the individual circuit involved. This will cut down the trouble-location part of re-work time to a relatively minor effort.

"The use of FACT will step up our checkout rate by a considerable rate, thus increasing our ability to meet scheduled delivery dates."

PLANS FOR incorporating FACT into Bldg 17's checkout system are being made by Bryant, Engineer R. H. Arnold and Technician R. B. Babcock of the test equipment section, Foreman W. O. Kerr of Inspection and General Foreman Carl Culver, Jr., of Assembly.

Designer Joins Glendale Branch

Evan I. Bourne, recently of Engineering Corporation of America (ECA), has joined the Glendale branch as a designer, reporting to project manager T. A. Miller. He has been assigned to the design of printed circuitry and packaging on the SUBROC project.

A native New Yorker, Bourne was a pre-med student at NYU before transferring to the Mendell Drafting Institute of N.Y., majoring in mechanical drafting.

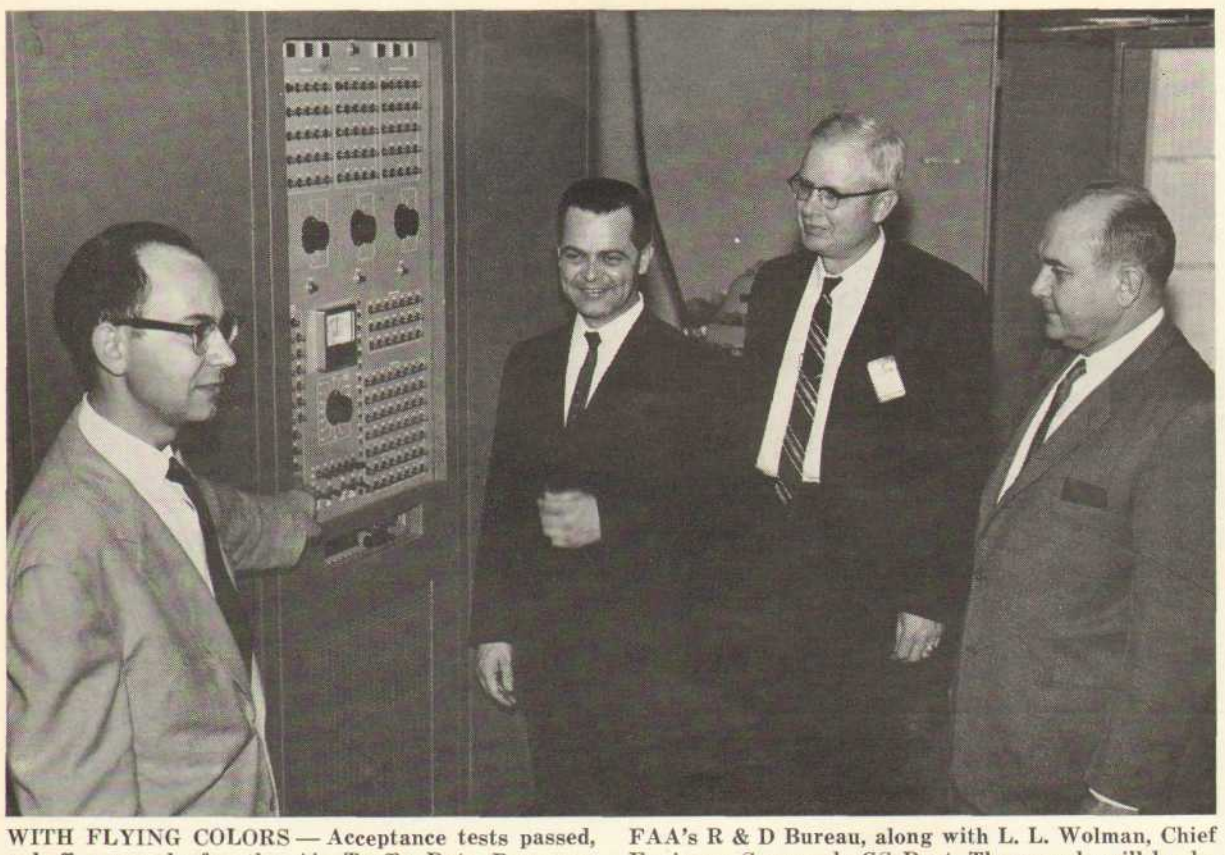
Bourne was formerly a designer with Norden-Ketay Co., and a design draftsman with Radiophone Co., Inc., where he worked on telemetering equipment for the Atlas ICBM.

Mothersbaugh to Head SA Group

Robert T. Mothersbaugh, a veteran Librascoper, was recently promoted to Supervisor, Spares Analysis, a section of the Technical Documentation Dept., Glendale branch. In his new position, Mothersbaugh is in charge of administrative and technical functions of the Spares group.

A native of Williamsport, Pa., Mothersbaugh came to Librascope as a general assembler in May, 1954. Following promotion to assembler leadman, he transferred to the spares group, working as coordinator, analyst and assistant supervisor.

Before coming to Librascope, Mothersbaugh worked with Lockheed and the Williamsport (Pa.) Battery Co. He lives with his wife, Alice (a former Librascoper in Blueprint Reproduction) in their new home in the Simi Valley.



WITH FLYING COLORS — Acceptance tests passed, a buffer console for the Air Traffic Data Processor System, designed by Sunnyvale's Ground Systems Dept., is approved for delivery by representatives from the FAA. From right are Ezra Nichols, FAA Bureau Facilities; Jay Rabb and Cmdr. Lee Noble, both from FAA's R & D Bureau, along with L. L. Wolman, Chief Engineer, Sunnyvale GS Dept. The console will be delivered to the agency's National Aviation Facility Experimental Center, Atlantic City, N.J., complementing Sunnyvale's ATCDP system already in use at the test center.

Story of Bratton, Librascope Featured in Space Magazine

Space Age News, a leading publication in the aerospace and electronics industries, paid tribute to President W. E. Bratton and Librascope last month, when it chose him as its "Man of the Week" for the Mar. 13 issue.

The magazine devoted two pages of action photography and dramatic text to Mr. Bratton's views on the state of the computer industry and its future, and to his philosophy of small, integrated branch operation, as opposed to large-size companies with central control.

"WE BELIEVE companies lose their ability to communicate internally if they become too large in one location," Mr. Bratton told the magazine's interviewer.

"When you include too many people under one managerial concept you are unable to communicate sufficiently so that the group becomes aware of the customer and his problems. In large organizations today, the employees many times forget that real support comes from the customer.

"TOO MANY INTERNAL groups are working only for a particular isolated objective. These groups are dedicated to themselves and strive only for perfection of the group . . . (The group objective) in some cases is completely contrary to the basic, over-all objectives of the customer."

Librascope's chief executive also spoke about the attributes desirable in the employees of today who will provide the leadership of tomorrow.

"I look for someone who is aggressive; someone who will recognize the problem—and solve it.

"THERE ARE TOO MANY people in industry today who see the problem, but look around for someone else to come up with the solution.

"The urge for security has almost caused people to forget they must earn a living by accomplishing something. Organization-minded people tend to group together for protection and hope that, somehow, the group will protect them, or else hope that no one in the group can be blamed individually."

THE PROBLEM in selecting tomorrow's leaders, Mr. Bratton said, is to find the person conscious of individual responsibility . . . a person who "wants to be judged and measured individually and, conversely, knows that he must get the job done if he's going to survive."

RECREATIONAL FIRST — Precisioneer President Howard Little, following presidential protocol, throws out the first ball for the first game on one of five new pingpong tables. In addition, six other tables have been resurfaced and will be located at various buildings for lunch-time recreation. Contestants in the match above are Micki O'Grady, Communications clerk (left), and Louise Morton, Prod-Control and Precisioneer vice-president. The winner? No one remembered to keep score.

D. R. Finley To Glendale Branch

David R. Finley has joined Glendale Branch Engineering, as surveillance Equipment Engineer, reporting to W. L. Cloninger, Director of Surveillance Equipment.

During a three-year stint in the Navy (1956-59), Lt. j.g. Finley served aboard the destroyer USS Durant, assigned as Intelligence and later Operations Officer.

A graduate (BSME) of Tri State College of Angola, Ind., Finley continued his engineering studies at USC, receiving a BEME in 1956.

Before coming to Librascope, he spent a year with Sterling Electric Motors Co., in the design and development of mechanical and electronic variable speed drives.

Nation-Wide IDEP Project Cuts Reliability Test Costs

IDEP, the comparatively new Interservice Data Exchange Program, organized for the exchange of reliability test information between companies and military agencies, has a number one participant in Librascope, according to L. G. Rado, Components Applications supervisor for Reliability.

The resultant savings through elimination of duplicating test programs has been extremely substantial, Rado told LIBRAZETTE.

ORIGINALLY ORGANIZED by Ballistic Missile Division, BuWeps and ABMA Huntsville, IDEP now lists 44 of the nation's major companies and federal agencies in its membership. Such major corporations as Lockheed, General Electric, IBM, Douglas, Westinghouse, RCA, Aerojet General and Convair Astronautics are subscribers to the test exchange program. Kearfott is also an active GPI participant in IDEP.

Since its formation in June, 1960, IDEP has accounted for the placement of more than 500 test reports in the Reliability test report file. In return, Librascope — one of IDEP's most active members— averages an input of 5 to 10 reports to the program each month.

"Although some of the reports have no direct application to our operation, we have already realized sizeable cost reductions in testing on Polaris, SUBROC and the Mark 84 programs, thanks to IDEP," Rado said.

A MOST IMPORTANT feature of the program, Rado pointed out, is the tremendous reduction of man-hours required for testing. "We now have results of literally thousands of hours of testing at our fingertips," he declared. "This means that interested engineering and design groups at Librascope can now avoid duplication of groundwork that has already been covered by another company."

As the test reports from the various companies come into IDEP, they are summarized on 8 x 10½-inch cards, reviewing the pertinent highlights of the test conditions and results.

In addition, a microfilm strip of the complete original test report is attached along the edge of the card to provide detailed information on the tests and their results. The microfilm can accommodate up to 50 pages of test report, usually enough for most reports.

STILL IN its formative stages, IDEP, when it realizes its full potential, is expected to be the clearing house for upwards of 3,000 test reports each year.

TEN-YEAR LIBRAVETS—J. O. Johnson (second from left) and R. M. Mersman (second from right) received their 10-year Libravet pins recently. Both are from Glendale Branch where Johnson is a Mechanical Lab Specialist and Mersman, a Mechanical Technician. At left, is A. D. Larson, Branch Chief Engineer, who presented the pins, and at right, Fred Lenzen, Mechanical Lab Supervisor.

GPI Appointment

Colonel Guy B. Richardson, Jr., USAF (Ret.), has joined GPI as Special Consultant to President D. W. Smith. With headquarters in San Bernardino, Richardson will serve as a specialist in GPI business and technical matters.

Prior to his retirement, Richardson was Chief of the Newark Air Procurement District and Director of Procurement and Production at Headquarters, San Bernardino Air Materiel Area, Norton Air Force Base.

Sunnyvale Spring Dance Scheduled at San Jose

May 13 is the date set by Sunnyvale-at-Sunnyvale for its Spring Dinner-Dance to be held at the Saint Claire Hotel in San Jose.

Tickets, soon to go on sale, are $2.50 each. All employees and their wives, husbands or dates are invited.

Sunnyvale committee members heading the affair are Howard Pennycott, Pat Kennedy, Mildred Bandy, Wayne Harrison, Timothy Kelley, Lloyd Shetler, Mary Freitas, Bruno Wartman, Thomas Clark, Jay Miner, Marjorie Moore and Kay Ferreira.

Seek Technical Papers For Coming Programs

Librascope writers, or aspiring writers, with an interesting technical story to tell, have many handsome opportunities to do so in the coming months, according to J. O. Robinson, Division Public Relations Editorial Manager.

With a series of national conventions and magazine award programs on the agenda, the call is out for technical papers which might be applicable to the conferences. In addition to national recognition, if the paper is accepted, there is also the added benefit of a cash award through Librascope's Employee Incentive Writing Program.

Employees interested in entering papers in any of the following conferences, should submit their entries to the Public Relations Department for processing, thus making the employee-author eligible for the company's incentive writing program.

The following is a list of forthcoming conventions and conferences interested in publishing or presenting papers in various technical fields.

1961 Circuit Design Award Program: Sponsored by Electronic Equipment Engineering magazine, the year-long contest is geared to encourage readers to submit the most interesting of their circuit designs for publication. The top prize is a $1000 Savings Bond, with over 100 additional awards.

1961 WESCON Meeting, San Francisco, Aug. 22-25: Any subject matter which logically falls within the broad spectrum of interest of the 28 professional groups within IRE is considered appropriate for the 1961 technical program. A 100- to 200-word abstract along with a 500- to 1000-word detailed summary of paper should be submitted to Public Relations by Apr. 13 to allow sufficient time for processing and mailing by the Editorial Committee.

16th National Conference of the Association for Computing Machinery, Los Angeles, Sept 5-8: For information on the suggested list of categories, contact Public Relations. Deadline for submitting (four copies) a 100-word abstract and a four-page summary to PR, is Apr 18.

National Chemical Exposition, Chicago, Sept. 5-8: For details on the Chicago meeting (and for meetings in Wash., D. C.; Rochester, N.Y.; Evanston, Ill.; Detroit and East Lansing, Mich.; Louisville, Ky.; and Atlantic City, N.J.) see the Dec. 26, '60 issue of Chemical and Engineering News, or contact Public Relations.

Credit Union . . .

(Continued from Page 2)

posit any amount at any time by visiting the office.

Q: Who declares the annual dividend?

A: The Board of Directors makes the dividend declaration at the annual meeting.

Q: Wouldn't the credit union be more attractive to prospective members if it declared a dividend more than once a year?

A: It's possible, but the initial lure of a more frequent dividend would soon have members frowning when they realized that the added help and paperwork entailed in turning out a semi-annual or quarterly dividend would eat into their profits. The minute that operating expenses—which we keep at a minimum—begin to go up, the dividend begins to nose down.

Q: How much has the annual dividend been over recent years?

A: In 1957 and 1958, we paid a 5 per cent dividend. During the past two years we were able to increase it to 5½ per cent. We feel that this is extremely favorable when compared to the 3 to 4½ per cent dividend paid by banks and savings and loan associations.

Q: A final question. Why aren't more Librascopers in the credit union?

A: Up until now, I thought I've had the answers to most of the questions asked. But I'm afraid I can't answer that one. Maybe they don't like money!

Williams Named Senior Engineer

Promotion of W. E. Williams to Senior Engineer in Glendale Branch Reliability was announced recently by W. J. Picker, Reliability Section Director.

Williams, who reports to L. G. Rado, Components Application Supervisor, is responsible for designing evaluation tests for systems and components in the section.

Williams came to Librascope in 1957 and organized and headed the Environmental Test Laboratory, then a part of the Engineering Test Group. He transferred with the Test Lab to the Reliability Section about a year ago.

A native Angeleno, Williams received his BS degree at West Coast University, Los Angeles, and has done graduate work at both USC and UCLA.

Prior to joining Librascope, he was with Hydro-Aire at Burbank and Parker Aircraft, Los Angeles.

Married and the father of three children, Williams makes his home in San Fernando.

Skindivers Club Seeks Members; New Adventure

If crowded golf courses or crowded tennis courts or crowds anywhere are beginning to tell on your usually peaceful nature, it may be that your sporting blood needs a change of pace.

Hopefully, plans are in progress to organize just such a change-of-pace sport at Glendale — a Skin Diving Club, offering the ocean itself as a free and spacious playground.

Sign-up sheets for the new club will soon be appearing on bulletin boards throughout the company in a drive to gain sufficient membership required for organization.

Frank H. Collins, Glendale Branch stock clerk, and an avid aquanaut, is spear-heading initiation of the club. Financial backing and other club privileges will be provided under Precisioneer sponsorship if sign-up rosters reveal enough interest.

Activity proposed by Collins for the club includes lessons in skin diving by qualified instructors, trophies during the year for diving accomplishments, the furnishing of equipment for land and underwater photography, and, most important, some legitimate adventure in today's world of the commonplace.

To allay natural fears some people hold of the underwater regions, Collins quotes from authoritative sources. "Proper instruction and thorough coaching in the use of underwater equipment, plus strict adherance to water safety rules, makes skin diving safer than driving your car."

Sharks? Not a single case in history of a shark attacking a human while he was completely submerged, but surface swimming is quite another story.

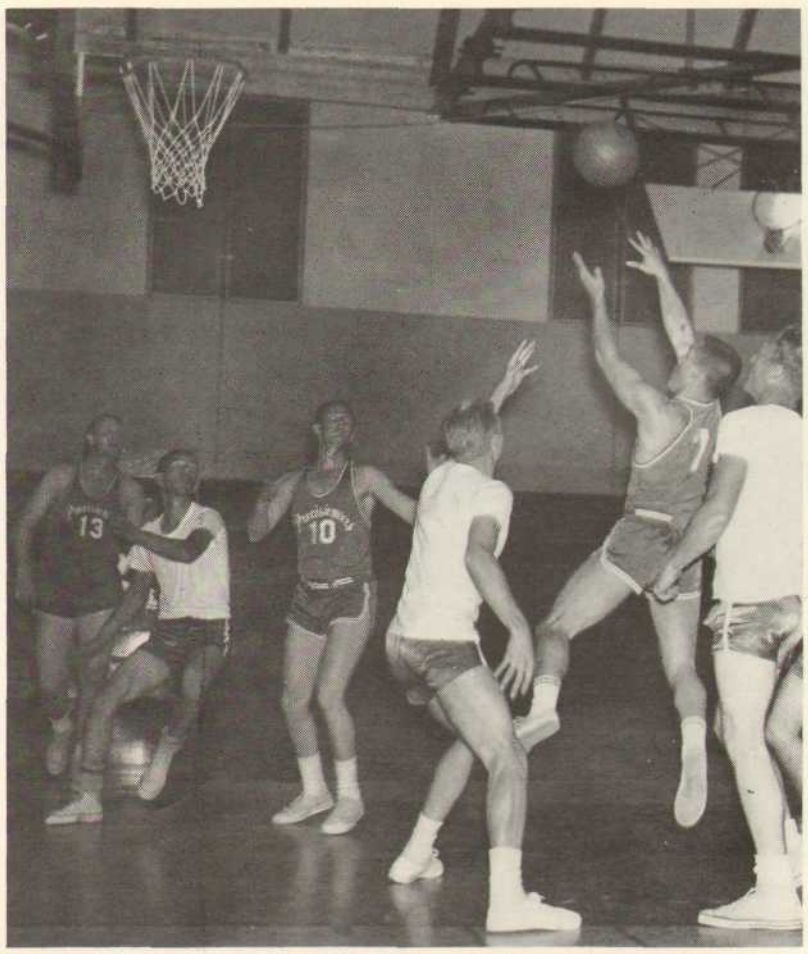
"Underwater, you as a diver represent a pretty fair-sized monster with bubbles coming out all over, evil pointed sticks in your hand or a huge eyeball of a camera peering through the water."

Install Officers At Toastmasters

Newly-elected officers of the Librascope Toastmasters will be installed during the regular meeting, Apr. 5, at the club's new meeting place in the Grand Central Bowl.

Hannes Boehm takes office as the new president of the local Toastmaster organization, succeeding G. W. Seltzer.

Also elected at the club meeting in March were E. L. Considine, educational vice-president; R. E. Laperle, administrative vice-president; C. R. Linsley, secretary; Sheldon Olney, treasurer; and J. F. Zajac, sergeant at arms.



CHAMPIONSHIP SHOWDOWN—Going into the final game of league play in the Burbank Industrial league, the Librascope B's and the Telephone Company sported identical 10-1 records. Slightly favored off their earlier victory over Telco, and possibly a little over confident, the Librascope cagers got off to a slow start and were never able to generate enough momentum for the needed rally. Final result—a 51-38 victory for Telco. In action shots above, Librascope guard Frank Frederick drives between two Telco players and sinks a basket. Waiting to clear the rebound are Librascopers Jim Batey (13) and Dick Chappel (10). In photo at right, Librascope high scorer Dick Chappel (17 points) wasn't quite high enough, as his jump-shot was batted out of bounds by Telco's top scorer, Bob Smith.

Season Tee-Off on May 1 For Librascope Golf Club

April 15 has been set as the registration deadline for participation in the 1961 Librascope Golf Club season which begins May 1.

Jim Locklin, club president, estimates 140 Librascope golfers will take part in this year's league play, competing for the many awards and tournament prizes offered by the club.

DUES FOR THE season are $5 a person, with the dues deadline April 22. Apr. 22 is also the deadline for new club members to turn in score cards to Joe Mesch, Bldg 21, to establish handicaps.

To speed up registration, the club has named building representatives from all of Librascope to handle dues and sign-ups. They are Tom Alder, Bldgs 1, 2 and 5; Joe Fido, Bldg 3; Hugh Smith, Bldgs 8 and 9; Bert Haber, Bldgs 7, 11 and 14; Matt Kimmel, Bldg 15; Bernie Meyers, Bldgs 12 and 16; Mac McColl, Bldgs 10 and 17; Charlie Guran, Bldgs 19, 20, 21 and 22; Bob Rudolph, Bldg. 26; and Tommy Ryder, Swing Shift.

THE 1961 SEASON, which runs through Aug. 20, will be highlighted by the annual Librascope Golf Tournament scheduled for Aug. 27 at the Hesperia Country Club.

Throughout the season, golf ball awards will be presented for low net scores of each two-week play period. Trophies for the first and second place winners in each handicap squad will be presented at the end of the season.

The annual Ed Sullivan award, established in memory of the Librascope Golf Club founder, goes to the golfer who shows the most improvement, demonstrates outstanding sportmanship and observance of the rules and etiquette of golf over the season.

INFORMATION CONCERNING this year's league play can be obtained from any of the club's executive committee members. They are Locklin, Jim Conway, Dona Stone, Dick Sak, Bob Megee, Joe Mesch, Bob DeMinico, Don Day, Jim Drugan, Hal Shartle, and Rose Marie Copple.

Rah! for Blue & Gold

Blue with gold has been chosen as the official colors for uniforms of all Precisioneer sponsored sports groups and also will be used in the organization's other activities.

The choice was voted at a recent Precisioneer meeting attended by representatives of all sporting clubs. During the meeting, all clubs submitted annual budgets, and plans for the coming year were discussed.

Gun Club Plans Trap & Plinking

A Trap and Plinking Match, sponsored by the Librascope Gun Club, will be held April 16 at the Juniper Tree Range on Soledad Canyon Road.

Standard trap shooting will begin at 9 a.m. with the plinking match scheduled at 10, George Cassell, Gun Club president, announced. Trophies will be awarded to winners in both categories.

Cassell explained the plinking match as a "fun shoot" with .22 calibre rifles. Competitors must first shoot to break a balloon which then releases a string and raises an animal-type target on which the rounds are recorded.

Tennis Group Schedules for Active Season

The call to the courts is out to all Librascope tennis players, whatever their skill or prowess, from the Burbank Branch Tennis Club.

Tennis players throughout the company are urged to join the club and participate in the active program planned for this year.

MEMBERSHIP IS FREE and tennis balls will be furnished to all members from the club fund.

Events currently planned include a Librascope-wide tournament, tennis lessons to anyone desiring to improve his game, and, possibly, participation as a company team in a Valley industrial tennis league.

Persons interested in the club should contact Norman Singer at Burbank Extension 228 or TH 5-7671.

NEW MEMBERS will be entered on the club ladder, with games scheduled according to challenge and acceptance depending upon position on the ladder.

Recently-elected officers who now head the club are Russell Blinick, president; Stuart Leong, vice-president and recording secretary; and Glenna Pappas, secretary-treasurer.

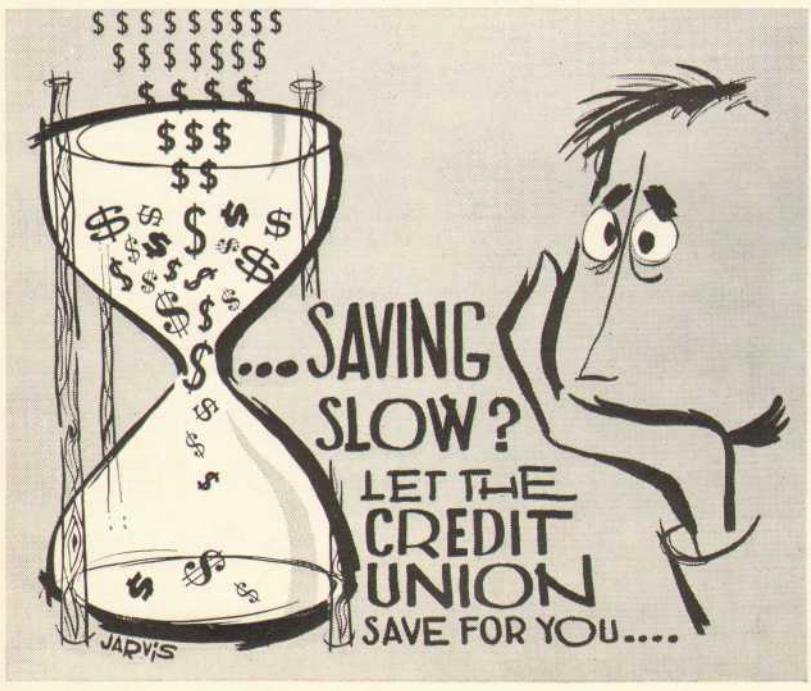
Librascope on Radio

Announcements of Los Angeles area engineering society meetings are now being presented by Librascope on radio sation KPOL, 1540 on AM and 93.9 on the FM dial.

Heard Monday through Friday at 7:30 in the morning and evening, the announcements have become popular and informative listening for technical people in Southern California.

Engineering employment opportunities at Librascope are also being advertised evenings and weekends on KPOL. Both programs are prepared by the Public Relations and Advertising Department.

SUNNYVALE'S BEST — Howard Pennycott and Allan Smith, Librascopers at the Sunnyvale branch, display bowling trophies they recently won in the doubles bracket of the 1960-61 Palo Alto Bowling Association City Championship. Pennycott's three-game scratch series totaled 601, while Smith came in with a 577 during the championship play.



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