\$4 Million FAA Contract Awarded

A resounding vote of confidence on work already completed and a whopping new contract amounting to just under 4 million dollars has been awarded to the Sunnyvale branch by the Federal Aviation Agency.

The new contract, announced by President W. E. Bratton, is for the computer portion of the multimillion dollar FAA program to establish a nation-wide semi-automatic system for air traffic control by 1965.

EARLIER THIS year, the first data processing equipment for FAA was delivered to the National Aviation Facility Experimental Center (NAFEC) in Atlantic City, N. J., for evaluation, as part of a sub-contract from GPL.

Under terms of the new contract, Librascope will produce a special, high-speed digital computer for installation in the Boston FAA Air Route Traffic Control Center. It is the only computer designed specifically for air traffic control, according to Les Bentley, general manager of the Sunnyvale branch.

ONCE INSTALLED, the computer and its supporting equipment, known collectively as the Data Processor, will help to assure safe and orderly flow of air traffic flying over the five-state New England area.

The equipment scheduled for the Boston ARTCC will be a modified, advanced version of the equipment delivered earlier this year to Atlantic City.

LIBRASCOPE EQUIPMENT which will constitute the new data processing sub-system includes: two all-transistorized data processors, each with an 8,000 word core memory; four dual drum-file con-

soles; two magnetic tape file consoles; and two input-output buffer consoles with ancillary switching equipment to provide a duplexed system.

The Data Processor, the major element in the system, will perform the following basic tasks: calculate times of arrival of aircraft over assigned check points en route; probe for traffic conflicts and seek possible solutions; transmit flight plan data to the ARTCC's concerned; store pending flight plans for future activation; and automatically update flight progress information.

Marv Ettinghoff has been named associate director for program management. Lane Wolman has been named associate director for systems engineering, with Bentley filling the position of program director for the Boston ARTCC equipment, according to Bentley.



FIRST SHOVEL TURNED—Highlighting the groundbreaking ceremony for Librascope's new Aerospace Branch location in San Marcos, President W. E. Bratton turns the first spade of dirt on the proposed building site. Aerospace Branch Manager Henry Norris (left) joins the audience of Monica Lindkvist, Miss Industry Week, and Sharon Galyean, Miss San Marcos, who were airlifted to the site by helicopter for the ceremony. (See other photos on LibraGraphic page).

GENERAL PRECISION, INC. AN EXCHANGE OF NEWS AND KNOWLEDGE

with greater responsibilities and

staff operations and department

Backing up top management in

Controller and Contracts Admin-

Personnel and Community Rela-

Quality Control - T. C. Parker,

Special Services - R. E. Clark,

Customer Services-L. H. Lyons.

Ground Systems Dept. - L. L.

Production Dept.-H. F. Warner,

Special Projects Dept. - B. V.

In the Glendale branch, three

new functions created by the shift-

ing of support operations from a

(Continued on Page 6)

Aid Elections

have been scheduled for Dec. 21,

according to Chairman Charles

member will have an opportunity

to cast his vote for the distribu-

tion of club funds for 1961 and

for the two committee seats held

by Steve Jackman, second shift

and Ed Grossman, Bldgs. 1-10-17.

The nominating committee will

propose candidates for the va-

cancies, but ballots also will pro-

vide for write-in votes. Also up

for voters' consideration will be

the Aid representatives for each

of the Glendale buildings and

Bldg. 15 in Burbank.

White, Data Processing.

The annual Aid Club elections

At that time, each Aid club

tions-R. L. Raschen, Manager.

growth potentials in all areas.'

management are:

Manager.

F. K. Serkland.

istrator-Frank Clerk.

Wolman, Chief Engineer.

Carlson, Chief Engineer.

Vol. 8, No. 5

November, 1960

Sunnyvale, Special Devices Merge; New Growth Seen

Merger of the Special Devices and Sunnyvale branches, further additions to the management organization of the Aerospace and Glendale branches, and functional additions to the Division's managerial staff, were announced this month.

Other changes and additions to the Division's structure are under consideration, but will not materially effect the basic organization as it now stands.

As of Nov. 14, this was the picture:

The consolidated Sunnyvale and Special Devices organizations are now called the Sunnyvale branch. Special Devices has become the Ground Systems Department of the branch, located, for the time being, at Glendale.

Carroll Maninger remains Manager of the Sunnyvale branch; Les Bentley, who was Branch Manager of Special Devices and Assistant Branch Manager of Sunnyvale, has become General Manager of Sunnyvale.

In addition to his managership of the Sunnyvale branch, Maninger also bears the title and function of Technical Director. In both capacities he is chief of the Sunnyvale operation, with special interests in planning and guiding Sunnyvale's technical efforts, especially in the Exploding Bridge Wire area.

As General Manager, Bentley shares cognizance of all branch operations with Maninger, will have special interest in those programs associated with the former Special Devices branch, such as the FAA contracts

Merger of the two branches was brought about, in the words of a joint announcement to their personnel (from Maninger and Bentley,) "in order to establish a firm, stable base for the operations of both activities and to provide for future growth."

Elaborating on the merger reasons, the two said:

"Consolidation means a new approach for all of us. Both groups have a solid background of technical achievement and accomplishment. Consolidation will give us a broader base from which to operate,

Dinner-Dance Dated Dec. 3

Climaxing 1960's social events at Librascope will be the Precisioneer's Annual Christmas Dinner-Dance, Dec. 3, at the Biltmore Bowl in Los

Tickets for this year's Yuletide spectacular are \$5 a person. All Librascopers and their wives, husbands or dates are invited.

Precisioneer President Jim Studdard reports that gross cost per ticket is \$8, but the Precisioneers underwrite \$3 for each person as part of the organization's annual activities.

The semi-formal dance will feature Bill Steers and his orchestra.

Tickets for the event go on sale the week of Nov. 14 and will be available from all Precisioneer directors, building representatives, and club officers. Starting time for the Dec. 3 date will be posted later this month, Studdard said.

Aerospace Branch Welcomed To New San Marcos Home

Librascope was welcomed to San Diego county with open arms last month, by 200 top civic, industrial and business leaders at a luncheon honoring our new Aerospace branch, followed by official ground-breaking ceremonies at the site in San Marcos. Guest of honor and principal speaker at the luncheon was Librascope President W. E. Bratton.

Both the luncheon, held in Escondido, and the ground breaking were sponsored by the San Diego Chamber of Commerce. The events climaxed the chamber's annual "Industry Week."

ADDRESSING the luncheon audience, Bratton outlined Librascope's plans for expansion in the area. The first unit of the multiple industrial complex, a 24,000-square-foot structure with parking facilities for 300 cars, is expected to be under construction by January 1. The building will have a modern exterior, will be air-conditioned inside, and will contain several dust-free production and assembly areas. Denis Beatty of San Francisco has been named architect, associated in joint venture with consulting engineer Isadore Thompson.

The Aerospace branch will employ approximately 250 persons upon completion of the initial segment, according to Bratton. Most key personnel will be relocated

from Glendale, with additional employees being drawn from the local area.

ONE OF THE more attractive highlights of the afternoon was the entrance of two young ladies who were airlifted via helicopter to the 30-acre site. The two airborne lasses were Sharon Galyean, Miss San Marcos, and Monica Lindkvist, Miss Industry Week.

In their possession was a chromeplated shovel, which they presented to Bratton for the first commemorative shovelful at the proposed cornerstone of the new facility. A similar honor was extended to Aerospace branch manager Hank Norris, who took a turn with the shovel as local television and newsmen covered the event.

Local officials on hand to welcome Librascope to San Diego County included Lloyd Turrentine, Mayor of Escondido, Frood Smith, President of the San Marcos Chamber of Commerce, Thomas A. Clarkson, President of the Land Title Insurance Co., and William R. Weber, San Diego County Supervisor for the 5th District.

AMONG the military dignitaries attending the San Marcos dedication were Maj. Gen Alan Shapley, USMC, Commanding General of Camp Pendleton, and Admiral Howard A. Yaeger, USN, Commander Pacific Amphibious Forces.

Plans for occupancy in the first unit of the Aerospace branch are scheduled for the summer of 1961, according to Cliff Dahl, Plant Engineer.

Dahl and his staff are now collaborating with Beatty and Thompson to iron out the mechanical, consulting and electrical engineering phases of the new building.

New Board Member

Don C. Webster, Librascope Vice-President in charge of division manufacturing and technical planning, has been elected to the Board of Directors of General Precision, Inc. (GPI). He and President W. E. Bratton form the Librascope representation on the 12-member board.



LOCS REGINS TO GROW—Early stages of preparation for the Librascope Operational Control System include a two-week familiarization period on the Friden Computyper for employees Anita White (right) and Jane Paschal, both Purchase Order typists. Purchasing section will be the first to receive input equipment for the RPC-9000 computer, the electronic heart of LOCS.



CREDIT UNION DAY-On the 12th annual observance of International Credit Union Day, October 20, officials of Librascope's CU look over the growing record of accounts for 1960. From left are Norm Stevens, vice

Credit Union Day Observed; Loans, Services Increase

The 12th annual international observance of Credit Union Day, October 20, saw the Librascope Employee's Credit Union pass the \$1 million mark in loans to members and membership increase from 1,995 to 2,690 through the first nine months of

treasurer.

LCU's promising figures, com-

pared to the same period last year,

also show net earnings increasing

from \$28,393.72 to \$46,422.38, ac-

cording to Dorris Eberle, secretary-

Credit unions, introduced 112

years ago in Germany, were first

established in this country in Mas-

sachusetts in 1900. LCU is in its

1953, it has granted a total of 7,833

seem to be keeping pace with the

rapid growth of the company, with

approximately 62% of the members currently participating," President

tivity, LCU has expanded opera-

tions to include Monday service dur-

ing the regular hours, 11:30 to

12:30 and 4 to 4:45 p.m., at its

attest to the attractive interest rates at the credit union. The divi-

dend rate for membership shares,

determined at the end of each year

by the board of directors, was 51/2%

in 1959, and, according to Castle,

promises to be comparable in 1960.

half to 1% per month on the un-

paid balances depending on the type

of loan. Loans against an indi-

vidual's membership shares and on

new cars carry the lowest interest

rates, while signature loans and

of \$100 for a year at the credit union would require a total interest

payment of only \$6.80," Castle said.

other credit institution and I think

you'll find it favorable."

savings amount.

Compare this figure with any

In urging everyone to join LCU,

"WE CAN BE of truly great

service in emergency situations

when a member has already estab-

lished a credit rating with the credit

union, and a decision on member-

ship does not delay the loan," Castle

stated. "Of course, a savings de-

posit is always ready in case an

emergency withdrawal is needed." "One of the most attractive fea-

tures of the credit union is the painless savings program," Castle

said. "Members have their savings

amount deducted from each check

before it reaches them, eliminating

trips to the bank, weekly decisions,

or delays in deposit."

Credit Union officials include
Castle, Eberle, Norm Stevens, vice

president, and members of the

board, George Yerkes, Jim Clark,

Urban Kimme, and from the Bur-

bank Branch, Robert Nelson.

the president stressed the advan-

tages of being a member of record

no matter how small the weekly

"For example, an unsecured loan

used car loans run to 1 per cent.

LOAN RATES VARY from one-

Increased loans and membership

To facilitate the increased ac-

loans amounting to \$3,877,207.20.

Since the LCU began in May,

"GROWTH OF the credit union

eighth year of operation.

Val Castle said.

Building 3 location.

Group Dynamics Course Ends

Nine members of the Librascope Industrial Engineering Department have completed a 12-hour course in "Basic Group Dynamics," according to Training Director Wayne Strong.

In six 2-hour meetings during September and October, the course dealt with fundamental concepts concerning group forces and their relation to process of change.

PARTICIPATING in the course were Willard Holmes, Wally Kruse, Jay Tait, Robert Putnam, Jay Wilt-Charles Abbe, Ray Johnson, Don Guy, and Dick Awbrey.

In connection with the study of personality's effect on behavior and the group, the film, "Twelve Angry Men," was presented during one of the class periods.

The Group Dynamics course was designed, generally, to present problems of change in a growing company and to develop means of facilitating solutions by those closely involved, according to Strong.

Mannschreck to Military Sales

Chris Mannschreck, recently retired as a Lieut-Comm from the Navy after 21 years of service, has joined the staff of Washington dis-

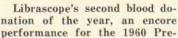
trict sales office Manager Frank Matthews, as a district military representative.

Mannschreck, who will represent the Glendale branch in the capitol, is a

native of Cook, Neb. He enlisted in the Navy in '39, where he was an Airborne electronics communications specialist, saw service in Australia, New Guinea, the Celebes and the Philippines, also had convoy duty in the Atlantic.

COMMISSIONED in 1945, Mannschreck was assigned as electronics technical officer in the Navy's missile programs, spent time in Washington and at sea.

After a spell of indoctrination here, Mannschreck returned to Washington to take up his new duties. He makes his home in Springfield, Va., with his wife, the former Nadine Kuenning of Auburn, Neb., and his 14 year old son, Tom.



Blood Bank II

performance for the 1960 Precisioneer drive in May, has been scheduled for Dec. 28.

The December donation date,

a recognized critical time of need in Blood Bank experience, will handle overflow pledges from the company's 9th annual drive last spring. At that time, the Bloodmobile capacity of 165 pints was swamped when 310

plenish the employee blood bank. Precisioneer officers, directors and building representatives will soon be organized to again canvass for volunteers, according to Charles McKallor, chairman.

Librascopers responded to re-

Roof Rules

If you have a flat tire or motor trouble on the roof of Building #17, you're in luck.

If you have a truck, pickup, motorcycle or scooter on the roof, you're out of luck.

New rules for roof parkers from Building Engineer Cliff Dahl requires this relaxing procedure in case of vehicle breakdown:

a. Just call the PBX operator who in turn will call a Plant Engineering Maintenance man who in turn will come to the rescue.

b. Those afflicted with flat tires are cautioned against even raising their car until the maintenance man

Under the new parking rules, all trucks, pickups, motorcycles and scooters are prohibited on the roof

Plant guards have been requested by Dahl to strictly enforce the above regulations who promises tickets to come for all violators.

Ammons Joins Librazette Staff

Former Army public relations writer, Wayne Ammons Jr., has joined the staff of LIBRAZETTE, as a staff writer.

Ammons, a native of Burlington, Iowa, is a 1957 graduate of the State University of Iowa with a BA in Journalism. During college, he was a report-

er and later managing editor of the Iowa City Daily Iowan. Following graduation he was a feature-writer for the Rock Island (Ill.) Argus.

BEFORE joining Librascope, Ammons served three years with the 47th Artillery Brigade at Fort Mac-Arthur, Calif., assigned to the news division of the Public Information

Ammons and his wife, Teresa, now make their home in Glendale.

HEAR Foundation Named For Annual Christmas Charity

The Precisioneer-sponsored Christmas card charity campaign -now a firmly-established tradition at Librascope-will be launched this year on Dec. 6, Precisioneer president Jim Studdard announced this month.

Once again Librascopers will forego the exchange of Christmas cards with their fellow employees, to contribute the money they would have spent in season's greetings to a worthy cause. This season, for the third time since the campaigns were first launched, the HEAR Foundation has been chosen to receive the Precisioneer's help,
"WE HAVE decided to continue

our support of HEAR because we feel our gifts are more likely to lead to an accomplishment of last-ing value," Studdard told LIBRA-ZETTE, "than if we scattered them over a wide area of need.'

"HEAR is dedicated to bringing the wonders of sound and speech to deaf children," Studdard observed. "It works to achieve early discovery of deafness in infants through its hospital and clinic work. It takes corrective action with babes in arms and with older children, too. Its research promises possible cure for many."

Some of Librascope's own family have been helped by HEAR's efforts, and one fellow employee, Leonard Ludwigsen, Glendale branch staff engineer, works unceasingly to design and build the audio devices the foundation uses in its work.

"LEONARD HELPS to multiply the effect of our gifts to HEAR," Studdard said. "Working without fee or charge and buying necessary items with his professional discounts, each dollar we give is worth at least three in actual buying power."

So, once again, the symbolic Christmas tree will rise in each department. Its decorations will come from the ornaments Librascopers may purchase with their diverted Christmas card money, from each department secretary. Each ornament bears the purchaser's name.

Last year the campaign netted \$2,229. It is the Precisioneer's hope that this figure will be exceeded in

New Store Hours

Beginning Nov. 21, Precisioneer store hours will be extended to include Monday nights, 7-9 p.m., for the benefit of Christmas shoppers. The Monday night operation will be in addition to regular hours, during breaks, lunch periods and from 4-5 p.m. each weekday evening.

Christmas stocks have now arrived, Manager Eileen Brown reports, and a wide selection of items are available at substan-

Bagdasarian In Successful Bid For Scholarship

A 19-year-old Librascope plating processor, Berge R. Bagdasarian continues to prove that he knows opportunity when he sees it. His latest effort,-a successful bid for a scholarship grant at the Valley Electronics School, Inc. in Burbank.

As he awaits the start of the 4-hour weekly electronic courses at Valley School, Bagdasarian carries on his existing part-time studies at Glendale College and full-time work at Librascope.

BAGDASARIAN responded to a LIBRAZETTE story announcing the Valley scholarship program and was accepted by the school following qualifying tests.



Formerly from Providence, R. I., Bagdasarian came to Glendale after graduating from high school at the age of 17, seeking work and further education. He enrolled at Glendale College and worked at several jobs.

Last April, he joined Librascope to be nearer his chosen field of electronics.

SINCE HIS arrival in California, Bagdasarian has arranged for his mother and small brother to join him in Glendale. His father is expected soon from Providence to bring the family together once again.

In the Librascope Plating Department, Bagdasarian works under Assistant General Foreman Chuck McCutchan.

SUBROC Unit Appoints Cook

Paul H. Cook, formerly a systems and project engineer with RCA and a Senior Production Engineer Asso-

ciate. He has been assigned to the Fleet Special Test and Checkout unit of the SUBROC project by Super-visor Don Augustine.

A native of Columbus, O., Cook studied electrical engineering at Franklin University and Fenn College in his native state. He has worked on the Atlas, Nike and Snark projects with RCA, the Air Force at Eglin Field, and Northrop Aircraft in Hawthorne. He also served six years on the research staff of the USAF airborne radar development laboratory at Wright Field.

Cook is married and the father of three youngsters ranging from 12 to 17 years old. He makes his home in the Arleta section of Van



tems and Procedures, look over new Librascope Correspondence Manual. The new manual, prepared and written by Dalton, will assist all clerical personnel in the preparation of uniform letters, general typing instructions, security procedures and filing policy.

BOOK REVIEW-Joan Johnston, Offices Services, and Ted Dalton, Sys-



FUTURE HOME—Aerial view shows the Librascope acreage for the Aerospace branch in San Marcos. With construction scheduled for early 1961, the first increment on the San Diego County site will be a 24,000 square-foot structure, with an adjacent parking lot for 300 cars. The white bordered area marked above indicates the 30 Aerospace acres.



BLUEPRINT FOR EXPANSION—Building plans for Librascope facilities in San Marcos, future site of the Aerospace Branch, are discussed by Plant Engineer Cliff Dahl and members of his staff. From left are Dahl and Pete Lauridsen and John Sexton, Area Engineers. Dahl and his group are currently negotiating with the building architect, and construction is scheduled to begin in January.



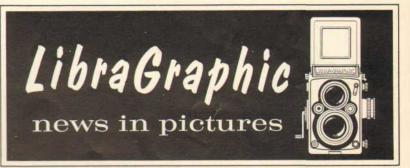
PHOTO TIME—Lines formed at the mobile identification truck last month as Librascopers had their pictures taken for the new ID badges. Special note should be taken of the new color coding for security classification. According to Chief Security Officer Don Knox, a red bar at the bottom of the badge indicates no clearance. With bigger names and bigger pictures, the new badges will be a standard item throughout the GPI divisions.



TATTERED TERPSICHOREANS—The Burbank Elks Lodge rocked with music and merriment the night of October 21, at the Precisioneer's "Hard Times" Halloween dance. Hobos, goblins, ghouls and vampires were all on hand, circulating to the music of Jim Manley's orchestra. The smiling couple at right is Marguerite and Stanley Mazur, winners of the "best costumes for a couple" award. Marguerite is a draftsman in Production Test Equipment group. The unearthly creature at far right is Cathy Langan, repro typist in Publications. The heavily shadowed eyes were bad enough, but the moss green hair and fingernails!



BRATTON ON TV—Librascope President W. E. Bratton (left) is interviewed by San Diego's popular newscaster Harold Keen prior to the groundbreaking ceremonies for the San Marcos facility. The interview, revealing Librascope's plan for relocating the Aerospace Branch in that area, was carried on KFMB-TV (Channel 8) news broadcasts in the evening.

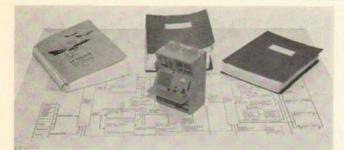




ANNUAL DONATION — Aid Club Chairman Chuck White presents check for \$2363 to Senior Captain Ben C. Pollgreen of the Glendale branch of the Salvation Army. Looking on at the presentation are Art Pederson, Aid Club advisor and Evelyn Robideau, Secretary-Treasurer. An annual Librascope contribution since 1954, this year's check is the largest yet presented to the local branch.







Customer Training: 16 Librascope Educators

There are no ivy-covered walls, nor are there any deep-throated chimes sounding the quarter-hour, but if a campus is a place to go to school, then Librascope is a campus and Navyman Bill Kelly is one of its students.

Every week-day morning for the last few months, Chief Fire Control Technician Kelly has taken a seat in a classroom in Bldg 16. At eight o'clock sharp, he and nine other students—most of them naval personnel—are ready for another all-day session on some phase of the SUBROC Mark 113 Fire Control System. The course, conducted behind closed doors, will last until December 16.

Instructors, course material and educational training aids are all provided by Customer Training, a section of Product Support. In the allotted instruction time of 18 weeks, it is their responsibility to transmit a comprehensive working knowledge of the new fire control system to insure its safe and dependable operation.

Following completion of the course, Bill Kelly will be transferred from his old submarine, the USS Bugara, SS-331, to one of the new nuclear powered submarines in the Navy's growing underwater armada.

Success for the fire control system on the new submarine will rest mutually on the shoulders of Chief Kelly and Customer Training. If a malfunction occurs, average "down-time," or the maximum period for maintenance

and repair, is a matter of minutes. If the 18-week course was an educational success, then Kelly's diagnosis of a malfunction should be accurate. Customer Training is banking on it.

Heading the group of Librascope educators is Lyle Crawford, Supervisor of Customer Training. "Our sole purpose for existence," he says, "is to train customer personnel to understand, maintain and operate systems and equipment on Librascope-built systems."

Unlike their educational counterparts in a university, who might be teaching Babylonian history from the same notes for years on end, the Customer Training instructors are continually faced with the challenge of new and uncharted material. Working from engineering data, the training team must translate it into understandable material for the personnel who will be operating the sophisticated equipment.

"We feel that our role in the company has become all the more meaningful with the added emphasis now placed on the Customer Support concept," states Supervisor Crawford. "We can't afford to be satisfied with the job we do, until we can rest assured that each person attending our class comes away with a sound, fundamental knowledge that will qualify him for the exacting job expected of him."

This goal can be achieved, according to Crawford, only by a diversified staff of engineers, technicians and instructors. The present 16-member team of customer trainers is just such a group—collectively offering a wide and discriminating background for technical instruction.

The high caliber of Customer Training starts with Crawford, himself. A BSEE graduate of UCLA, he first came to Librascope in 1957 as a design

engineer in what was then called Airborne. During his service years, Crawford served as a special instructor at Fort Bliss in guided missile systems.

Of others in the Customer Training group, a random sampling shows: John Liles, assistant to Crawford, who holds a degree in Marine Engineering as well as being a credentialed teacher; Customer Training instructor Bill Richards with six years of teaching experience in US Naval schools in a wide variety of technical subjects; and Training engineer Bill Spencer, a graduate of the University of Nebraska, who has held positions with Sperry Gyroscope's Training Section and Manhattan Technical Institute in technical training programs.

High technical competence is not a luxury for Customer Training, according to Crawford. Pivotal point for the group's success is a staff of qualified engineers capable of understanding the intricate workings of a complex system and qualified instructors capable of presenting the material in an intelligent, understandable package.

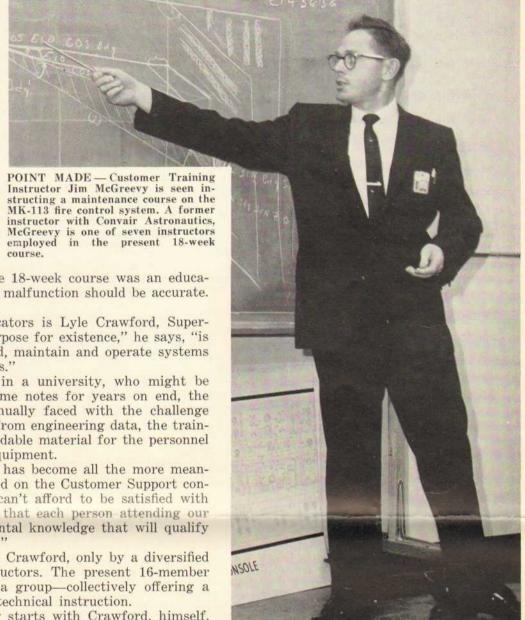
The hardware that gave birth to Customer Training was the CP-209, the Navy's first operational airborne digital computer. Because of the new concepts incorporated in the CP-209, it was decided that something more comprehensive than the usual manuals was needed. Military personnel who would be operating the unit needed a detailed course of instruction, prepared in such a manner that they, in turn, could train or teach others the maintenance and operation of the computer.

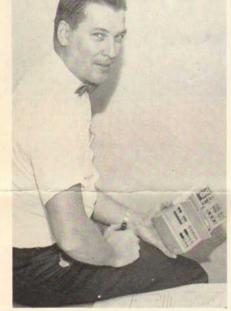
Lyle Crawford, then Airborne design engineer, along with engineers Keith Scholl and John Stark, was given the assignment of formulating a comprehensive training program for the new, lightweight computer.

The unqualified success of their efforts and the introduction of even more sophisticated Librascope projects, brought about the official formation of Customer Training in December, 1959.

The first assignment for the fledgling group was an instructional program for ASROC. The Navy requested a

(Continued on Page 5)





Supervisor Crawford

Course Members

Seven Navy fire control technicians and three Civil Service electronic technicians are enrolled in the present SUBROC course.

The Civil Service men attending are Joe Boivin and Conrad Veilleux, from Portsmouth Naval Shipyard and Orville Chaney from Mare Island Naval Shipyard.

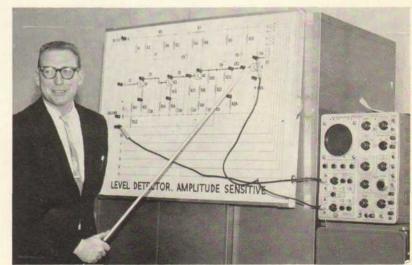
The submariners enrolled in the class are Phil Batson, Carl Davis, Phil Gauthier, John Healey, Bill Kelly, Don Thall and Frank Wood.



Navyman Kelly



HUDDLE—John Liles, assistant Customer Training supervisor (left) and Engineer Ralph Neighbors discuss material on a phase of the SUBROC course, before presenting it to the class.



TRAINING AID—Engineer Howard King demonstrates use of one of the mock-up boards developed by Customer Training as an instructional aid in presenting course material.

Test Group Tops 1960 Bond Drive

Final results of Librascope's 1960 Series "E" Bond Drive, held Oct. 10-14, reveal 643 new subscribers ready to invest part of their payroll checks in savings bonds.

Forty-three of the new subscribers represent in total Howard Hill's Production Test Equipment crew, the only group to participate 100% in the annual drive.

ACCORDING to George Seevers, Drive Chairman, deduction cards obtained boosted the total of those in the company now with payrolldeducted "E" bonds to 1,163, or 28% of all employees.

The 1960 drive resulted in an increased participation of 16% over last year.

"The unusually good showing in this year's bond drive can be attributed to the common-sense approach to savings by the people who signed up, and by the sincere, energetic work of those who made the contacts during the drive," Seevers said.

Section chairmen for the 1960 effort were: Don Barnes (Depts. 10-13, 20-28, 31 and 32), Keith Kinnaird (Depts. 40-48), Helen Pal-more (Depts. 50-52, 54-57), Fred Reynolds (Depts. 81-85), Don Derrington (Dept. 53), Bob McIntyre (Depts. 71 and 72, Elmsford, N. Y.), Bob Raschen (Sunnyvale).

Speedy Service

Employees now are receiving payments under their Group Insurance at least two days earlier than before, Employee Benefits and Services supervisor Art Pederson announced this month. Checks from the insurance company for medical bills, hospitalization and disability insurance, are sent directly to the employee's home, rather than to Librascope's insurance office, Pederson

The new procedure emphasizes the need for having a correct home address on file with the Employee Records section, Pederson pointed out. Keep yours up to date!

Sunnyvale

Hugh F. Warner, formerly Operations Manager at GPI's Link Division in Palo Alto, has joined the Sunnyvale Branch in the newlycreated position of Production Man-

A mechanical engineering graduate of Cal-Tech, War-ner also holds a Master's degree in Industrial Management from the Harvard Graduate

School of Business Administration.

Warner's experience includes ten years with Westinghouse and two years with Lenkurt Electric in manufacturing and Industrial Engineering. He is a Major in the Ordnance Corps, U.S. Army Reserve, and lives in Palo Alto with his wife and two children.



E. Lucille Podobnik, Sunnyvale's Security Officer, has been elected Secretary of the Northern California Chapter, American Society for Indus-

trial Security (ASIS), the first woman officer to serve with the chapter. ASIS is a professional society dedicated to the maintenance of high standards of practice in the industrial security field.

Recently named foreman of the Sunnyvale Branch Machine Shop is Milton J. Calhoun, former shop leadman. Calhoun joined the company in



July, 1956, at the previous Livermore location.



J.A. ADVISORS-Gathered around the table are this year's advisors for the Librascope-sponsored Junior Achievement company. From left: Ralph Woodward,

Chuck Blake, Shelby Drucker, Champ Vance and Joe Fido. In the center of the table is the chopping block, now being produced by the achievers.

Fourteen students participating

From John Burroughs High in

in the program represent five

Burbank-Al Haley, elected Chop-

A-Block president, and Lloyd Wil-

liams, production manager.
From Burbank High — Virginia

Burris, company secretary, Pat Stephan, treasurer and Sharon

From Notre Dame High in Sher-

man Oaks - Phil Palma, company

vice-president, Mike Burns, Matt

Betkouski and Garry McNulty. From Bellarmine-Jefferson High

in Burbank - John Griffin, Richard

Peterson, Janet Byrne and Sheila

Corrigan. North Hollywood High is

Turkey Shoot

aspiring-are invited to attend

and participate in the Gun Club's

Annual Turkey Shoot, Dec. 4, at

the Juniper Tree Range, Soledad

Shooting will begin at 9 a.m.,

George Cassell, Gun Club presi-

dent, reports, and will continue

as long as participants wish. All

Librascopers and guests may at-

Scheduled are both rifle and

pistol firing, including luck-shot

events in which even the novice

may excel. Main awards for the

events are turkeys, but other

quired, and participants may

enter any or all events featured.

A nominal range fee is re-

prizes will be available.

Canyon.

tend.

Sharpshooters - proven and

represented by Audrey Richman.

Valley high schools.

Achievers Enter Competitive Field With Top Quality Chopping Block

wide program which gives high school students the opportunity of a do-it-yourself course in the American free enterprise system, recently initiated its seventh consecutive year under Librascope sponsorship.

WITH THE AID of Librascope advisors, the young achievers find themselves exploring the many aspects of doing business. They organize a company, sell stock to finance it, manufacture and sell their product and close their own books through liquidation at the end

Bird Addresses Naval School

SUBROC Engineer Dick Bird recently appeared as guest lecturer for the American Institute of Electrical Engineers' sub-section meeting at the U.S. Naval Post Graduate School in Monterey.

ATTENDING were officers of the Naval school and members of AIEE and the Institute of Radio Engineers (IRE).

Bird spoke on advanced applications of analog computation with emphasis on the impact of electronics in this field.

A Senior Control Systems Engineer, Bird works with the Analog Electronic Design Section of the SUBROC Program.

THE INVITATION to address the AIEE meeting was arranged by two officers of the Naval school, Lts. Charles Pollack and C. J. Rorie, who conducted their post graduate thesis work this summer at Librascope under Bird's advisor-

Bird has a BS degree both in Electrical Engineering and Mathematics from California Polytechnic and his Masters from the University of California, Berkeley. He is presently enrolled in the Engineering Executive Program at UCLA.

of their project. Through the ninemonth period, the JA group will have participated in the whole spectrum of business operation.

Chop-A-Block, this year's Junior Achievement company, is now in the process of manufacturing a walnut and maple, steel-reinforced chopping block in time for the Christmas gift market.

THE ADVISORS for this year's JA company are: Shelby Drucker, Industrial Engineering, who will act as business advisor; Ralph Woodward, Machine Shop Foreman, who will be production advisor; and Joe Fido, Bldg-Eng administrative assistant, Sales advisor. Alternate advisors are Champ Vance, Eng-Adm assistant, and Chuck Blake, Production Foreman.

Graner Thorne to L.A. Sales Office

Manager F. C. Milner of the Los Angeles Regional Military Sales office announces the addition of Graner Thorne III to his staff.

Thorne, a 1958 graduate of the University of California at Berkeley, holds a degree in Physics. He comes to Librascope from North American



Aviation's Autonetics division in Downey, where he was an applications engineer for two and a half

THORNE is a former South Pasadenan, now makes his home in Palos Verdes with his wife and infant daughter. He is a veteran of the Army's medical corps, served two years as a surgical technician at Madigan General Hospital, Fort Lewis, Wash.

In off-duty hours he is an enthusiastic skier.



Litvinoff Joins Market Analysis

Latest addition to the newlyorganized Market Analysis staff of the Military Sales Department is Paul Litvinoff, a nine-year Libravet

and former drafting super-visor in Shipboard.

Litvinoff is Chief Market Analyst for the Glendale Subsection of the department un-

Lanier S. Castillo.

DURING World War II, he served as an intelligence specialist with the Army and Air Force.

In the War Department's Los Angeles Army Ordnance Region prior to entering the service, he worked as a civilian in classified contract procurement. He was graduated from the Ordnance and Explosive School at Massachusetts Institute of Technology and the Watertown Arsenal, and from the Ordnance Equipment School at Aberdeen Proving Ground, Md.

Among Litvinoff's hobbies is linguistics. He speaks eight languages, and also is a big game hunter of some repute.

He and his wife, Mary, and their three children, reside in Sherman Oaks. His brother, Harry, also a Librascoper, is an engineer in Quality Control.

fort for Navy personnel which

Customer Training (cont.)

"Bridge-The-Gap" training package - a comprehensive educational ef-

(Continued from Page 4)

bridges the gap between what they already know and the knowledge needed to operate and maintain the ASROC fire control system. With each newly designed system, a recurring problem faces the

Librascope educational group. Usually, there are no operating manuals for reference, no films or mock-ups, no material that has been broken down so that an average technician can understand what the unit with its countless components will do and what makes it

Realizing the problem, Customer Training personnel immediately establish liaison with the design engineers of a project.

As concepts and development of stem b more complete, the Customer Training engineers pore over the designs and prototype, learning the precise function of the thousands of components and sub-systems which make up the unit. Their understanding of a project is then formulated into communicable material for course instruction.

Such was the case with ASROC. The first pilot, or shakedown course on the Mark III presently is being conducted in Key West, Fla., with Customer Training instructor Dick Roepke in charge. It will be completed in December of this year, at which time a second course will be offered at San Diego. By July, 1961, the ASROC instruction will be completed.

The current 18-week SUBROC course being conducted in Bldg 16 is the most recent fruition of Customer Training's labor. The hundreds of hours of organizing class material, writing manuals and preparing the many visual educational aids, are finally realized in the course now being attended by submariner Bill Kelly and nine other class members.

The Librascope curriculum may not be a broad one, but thanks to the instruction and guidance of Customer Training, Bill Kelly will report aboard his new submarine, knowing the Mark 113 inside and



RECENT LIBRAVETS-Librascopers who have attained five-year Libravet status are, from left, top row, Suzanna Kovalchik, Assembly; Frank Primozich, Shipboard; Tom Smith, Quality Control; Elaine Christian, Engineering Services; and Lothor Schmidt, Aero-

space; bottom row, Jim Robinson, Public Relations; Sarah Atkinson, Accounting; Esther Andrede, Engineering Services; Rose Richardson, Assembly; and Joseph Vanek, Prototype.

Former PTEG Men Promoted

Two former members of the Production Test Equipment Group, Dick Goetsch and Maurice Goldwater, received promotions this month

GOETSCH. formerly an electronic technician with PTEG, has been named foreman in Receiving Inspection where he supervises and provides



technical instruction for receiving personnel.

Starting with Librascope in August 1959, Goetsch worked first in Inspection, then as Precision Inspector, and later in Adjustment before joining PTEG under Howard

GOLDWATER, a former Electrical Engineering Associate with Hill's group, has joined Quality Control as a QC engineer. In that capacity he is responsible for the



acceptance of all rotary components from outside sources and the correlation of equipment to check these components. An electronic

technician when he first came to Librascope in 1958, Goldwater was named Electrical Engineering Associate in October 1959.

Prior to joining this company, Goldwater was employed at the Lockheed Flight Test Center. In the Air Force, while assigned to SAC headquarters in Omaha, he worked in communications.

Sunnyvale Merger...

(Continued from Page 1)

central group to the individual branches, have resulted in the appointment of:

G. S. Mannan as Manager of Quality Control;

V. E. Mayelin as Assistant Supervisor, Engineering Standards; R. B. Mothersbaugh as Supervi-

sor, Spares Analysis section of Technical Documentation.

These appointments are in addition to those previously announced by Branch Manager T. D. Bryant. In Division Headquarters, J. R.

Kay has been named to coordinate engineering standards with the branches, and with GPI and GPE. Other division assignments, in addition to those announced last month:

D. L. Lusk as head of the Standards Laboratory, reporting to D. H. Harrison; the shifting of the Process Laboratory, of which Joe Simon is Supervisor, to Applied Research, under W. E. Blackburn; E. E. Pearson as head of the Staff Office of Manufacturing and C. S. Vance, as coordinator of status reports, both reporting to W. E. McAboy.

Safe Trees

Fire-proofed Christmas trees and decorations will be the order of the day at Librascope during the holiday season. All trees brought into the plant during the Christmas season should be purchased as fire-proofed trees and certified as such, according to Plant Engineer Cliff Dahl.

Before setting up the trees, they must first be taken to the Main Guard station, adjacent to Bldgs 1 and 3, for inspection and tagging by Joe Fido, Bldg-Maintenance. Any tree found without such approval will be removed from the building.

Higgins Named To Shipboard

Ward Higgins has joined the Glendale branch as Shipboard Senior Engineer, according to Myron Prevatte, Director, Applications Engineering.

In his new position, Higgins will make investigations into new application for Shipboard products, as well as working with customer and engineering personnel.



A NATIVE of Long Beach, Higgins comes to us from Servomechanisms, Inc., where he served as Sales Engineer, handling liaison between the company's R/D group and customers. He formerly was with Bendix-Pacific in Contracts Administration. Married and the father of three, Higgins makes his home in Sepulveda.

Quality Control Class Begins at Librascope

A fifteen-week course in Statistical Quality Control, to be presented by I. Paul Sternberg, Quality Control Director of Whittaker Gyro, begins at Librascope Nov. 7.

The two-hour weekly sessions for members of the Librascope Quality Control Department will cover aspects of various statistical sampling methods to increase quality control, according to Joe Schwarz, training department coordinator for the course

Attending the course will be Don Derrington, assistant to the manager of Quality Control; Russ Hofgren and Carl Cisco, Quality Control Engineer Supervisors; Paul Metzger, general foreman, in-process inspection; Bill Giles, general foreman, receiving inspection; Dick Hesse and Steve Lewis, technicians.

QC ENGINEERS Harry Litvinoff, John Johnston, John Oesdean, Tom Randall, Jim Alexander, Goldie Goldwater, Sig Buck, Clyde Kelley, Sam Baker, Harry Baldwin, Don Wolff, Joe Bolt, Al Storey, Bob Miller, Bill Dempsey and Dick Mielke.

In-process inspection Foremen Bill Kerr, Pat Patterson, Arlene Hesse, Bob Sites, Roland Stoddard; and Mal Hamilton, tool calibrator.

Five Engineers Attend Session On Packaging

With the Rocky Mountains serving as the backdrop, five members of Librascope three from SUBROC and one each from Shipboard and Aerospace - recently traveled to Boulder, Colo., for the First International Packaging Sym-

THE SUBROC members attending were: Digital Engineering Director Jerry Deitz, Design Specialist Joe Riddle, and Project Manager Morgan Foster. The Shipboard staffer was Engineer Jim Saiers, while Senior Engineer Bob Hehmann was the Aerospace Engineering representative.

The two-day session, under the joint sponsorship of Electrical Design News and the U. of Colorado, Department of Continuance Education, was attended by 500 representatives of the nation's top electronic firms.

One of the high points of the symposium was the paper coauthored and presented by Deitz and Riddle. Entitled, "Packaging Requirements for a Submarine-Borne Digital Computer," the paper explored in depth the space-volume considerations, choice of cooling techniques, serviceability and maintenance concepts on a submarinecarried computer.

The paper, given during the afternoon session of the first day, was so well received that the question-and-answer period extended well into the afternoon recess. The paper was later selected in a poll taken by the university as one of the top five presented at the sym-

AN EQUALLY interested audience received a second Librascope paper, presented by Bob Hehmann of Aerospace. Describing an approach to control system design that integrates the electrical and mechanical system design with the required package envelope, Hehmann's paper was entitled, "Designing for Miniaturization.'

Wyoming Graduate Joins Test Group

Ronald L. Helms, who graduated this Summer with a Bachelor of Science degree from the University of Wyoming, has been assigned to

the Polaris unit of the Production Test Equipment section by Supervisor Howard Hill. Helms will work under the direction of Production Test Equipment En-



signer of Polaris test units. Helms, a native of Compton, studied electrical engineering for two years at Los Angeles Trade Tech college before enrolling at Wyoming to take his degree. He is married and the father of two.



and white diagonals in a large parking lot. Stir in a dash of prudence and a pinch of time. Serve liberally during rush hours. Goes equally well in the morning or evening, and, if used wisely, should serve an entire company. The new stop signs installed recently in the parking lot east of Bldg. #3 were necessitated due to several near-accidents, Bob Lee, Safety Engineer, reports. Crosswalks were also repainted to heighten the possibility of a sefe arrival and return of employees. sibility of a safe arrival and return of employees.

Long, Short, & Tall Called for Basketball

The call is out for the Librascope tall men, according to Charlie Mc-Kallor, manager of the Precisioneer basketball team.

"We'll go for some short ones, too," says McKallor. "It never hurts to have a guy like Bob Cousy on your team."

For the first practice session, 14 Librascopers were in attendance at the McCambridge Field House in Burbank. Plans are now under way for entry of one and possibly two teams into the Burbank Industrial

With league play not starting until mid-January, there is still plenty of time to rustle around in the closet for those old tennis shoes and come out for the team, McKallor told LIBRAZETTE.

For further information on the whens and wheres of upcoming practice sessions, contact manager McKallor on ext. 2283.

Children's Party

The Precisioneers' Annual Christmas party has been scheduled for Dec. 17, 1-4 p.m., at Hoover High School in Glendale. Co-chairmen Jim Manley and Charles McKallor urge a prompt reply to the attendance slip which will soon appear in the pay envelopes. Employees' children, age 1-13 are invited.

The Librazette

Copyright 1960 by Librascope Division, General Precision, Inc. 808 Western Avenue, Glendale Editor Bill Keith **Assistant Editor** Terry Ryan Wayne Ammons Staff Writer Art Editor Keith Kinnaird Assistant Art Editor Paul Kane Earl Crawford Photographers Fred Beindorf, Jim Avera Photo Layout Andy Cook Jim Norwood

Scarich To Study Data Transmission

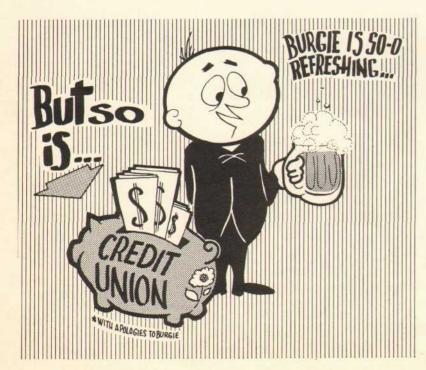
Vincent A. Scarich, newly-graduated associate engineer, has joined the Special Devices branch and has been assigned to a study of a data



system by Lane Wolman, Director of System Engineering for Special Devices. A native of Berkeley, Scarich attended Oakland City

transmission

College, took a B/S degree from the University of California at Berkeley in 1959. He received his Master's degree in Business Administration last June from San Francisco State College.



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

First Class Mail