

LIBRAZETTE

AN EXCHANGE OF NEWS AND KNOWLEDGE

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FEBRUARY, 1964

Employees Vote \$20,000 Aid

(GLENDALE) Employees of the Surface Equipment Division and the Librascope Group Offices have authorized payroll deductions of \$20,000 during 1964 for contribution to charity.

Most of the money will be channeled to major charities of the Los Angeles area through the Aid Club, which conducted the balloting in which the authorizations were made.

The balloting also resulted in the reelection of Dick Wilson, Harry Newbanks and Marie Sagar to the governing board of committeemen, and in the election of two new members, Don Derrington and Steve Jackman. Carryover members are Bill Ryan and Evelyn Robideau. Wilson, who has been chairman of the group, was reelected to that post by the members.

Also elected were representatives from each building, to function as field assistants to the committee. They are:

Elmer Lehman and Tony Schneider, Bldg. 1; David Gardner, Bldg. 2; Mark Walker, Bldg. 3; Bob McCollum, Bldg. 5; Edna Pelka, Bldgs. 7 and 14 and Ken Burton, Bldg. 16.

Also, Alice McCormick and Ella Lustig, Bldg. 17; Bob Gonzales, Bldgs. 18 and 19; Joe Myles, Bldg. 32; Terry Dixon, Bldg. 11, and Nick Pizula, second shift. Mrs. Lustig also was elected alternate committeeman, to serve for absent members.

Value Engineering Proposal Will Save Navy \$60,000

(GLENDALE) President Johnson's drive to reduce costs of the national defense program without sacrificing quality or quantity, finds Librascope in the enviable position of being "out in front" in this effort.

Late News...

At Avionic Equipment Division, new contracts have been received totaling \$1,276,000, for airborne computers and associated equipments....The work will be performed for the U.S. Air Force and for an overseas member of the North Atlantic Treaty Organization.

Surface Equipment Division has negotiated a contract for design and production of a group of electro-mechanical modules at a total fixed price of \$792,000. SED will perform the work for a prime ASW contractor to the Navy. The work is classified.

Word has just been received from the Navy's Bureau of Weapons that Librascope's value engineering proposal to slash approximately \$60,000 from the cost of producing the Mk 113, Mod 2 FCS, has been approved.

The cost-saving proposal is our first affecting products in production, to be accepted by the government. Under terms of its contract with the Navy, Librascope will share the savings 50-50 with the government over the life of the contract.

"This acceptance is no mean achievement," Vice Pres and Division Manager T. D. Bryant of the Surface Equipment Division, told LIBRAZETTE. "The successful application of value engineering concepts to a project already engineered and in production is not an easy process.

"It's worth pointing out," Bryant added, "that few value engineering proposals put forth by defense contractors have, so far, survived the acid test of practicability—that is, is the result worth the effort? One giant in the electronics industry, with a 28-man value engineering staff, has yet to achieve one acceptance out of all the proposals it has submitted."

Librascope's successful proposal involves the dropping of a processing step in the manufacture of circuit boards for

(Turn to Page 10)



NEW AID CLUB committee members and building representatives meet at SED headquarters in Glendale, following election. Front row (L-R), Bill Ryan, Harry Newbanks, Evelyn Robideau, Dick Wilson, Marie Sagar and Don Derrington. Rear row; A. R. Pederson, Supvr. Employee Benefits and Services, Bob Gonzales, Terry Dixon, Bob McCollum, Ella Lustig, Moe Lehman, Joe Myles and Ella Lustig.

1964 Holiday Schedule

March 27, Good Friday.

Memorial Day, May 30, which falls on a Saturday. The company-paid holiday will be Friday, May 29.

July 4, Independence Day, also falls on a Saturday. The company-paid holiday will be Friday, July 3.

Sept. 7, Labor Day.

Thanksgiving Day, Nov 26.

Dec. 24 (Christmas Eve), half-day paid holiday, and Christmas Day, Friday Dec. 25.

Kroninger, Byun Return to CCD

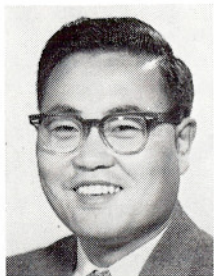
(BURBANK) Nolan R. Kroninger, who first joined the then Burbank branch 12 years ago as an electronics technician, has returned to the organization after a two year absence, as Director, Product Engineering.

Kroninger's appointment was announced by R. L. McIntyre, CCD manager of engineering. At the same time McIntyre announced that Chai B. Byun, who had resigned his post as project engineer six months ago, has returned to the organization as an engineering supervisor in the product engineering group.

During his absence Kroninger headed a section at North American Aviation's space and information systems division working on the development of space simulation devices. Byun was with Litton Systems working on component design.



KRONINGER



BYUN

Sunnyvale Engineers Address AOA Meeting

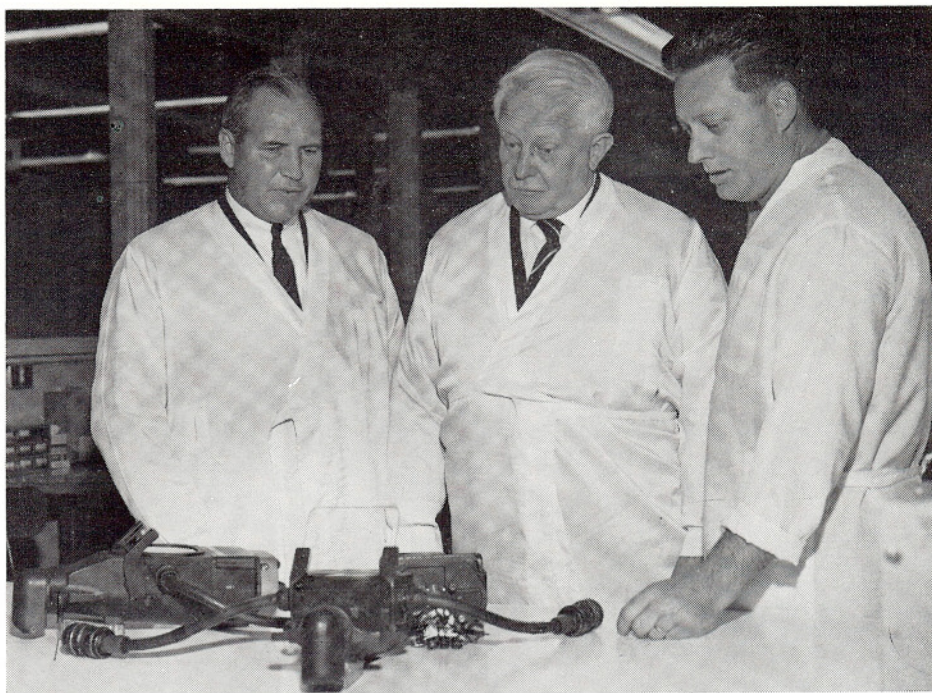
(SUNNYVALE) Technical papers on exploding bridgewire initiation systems will be delivered by two engineers of the Sunnyvale branch, CCD, before the American Ordnance Ass'n joint technical meeting on EBW, Feb 10 and 11, in Los Angeles.

Donald E. Davenport, director of electro-explosive engineering, will speak on "Ordnance Design and Testing to Mini-mize Dudding."

Otto W. Schreiber, director of electrical engineering, will talk on "Exploding Bridgewire Frequency Coded Armament Systems."

Also taking part in the sessions, as technical co-chairman, is R. Carroll Manning, former Sunnyvale manager, now Head, Electronic Research Division, Lawrence Radiation Laboratory, University of California.

Sunnyvale branch pioneered in developing the exploding bridgewire technique for ignition use in missiles. Its products are used on various missile programs.



WORLD FAMOUS Col Bernt Balchen (C), who piloted Admiral Byrd in first South Pole flight 34 years ago, visits Glendale's Bldg A02 cleanroom to inspect optical assembly line. ISG Marketing Representative Jack Whistler (L) and Leadman Al Reed were Col Balchen's guides. Col Balchen, retired from the USAF, is now a GPI consultant.

Bernt Balchen, Famed Flier, Pays Visit to SED and AED

(GLENDALE) One of aviation's pioneer instrument pilots and the man who piloted Admiral Byrd's plane on the first flight over the South Pole, was a recent visitor to the Surface Equipment and Avionic Equipment divisions of the Librascope Group.

He is Colonel Bernt Balchen (USAF-Ret), who has been flying for 46 of his 64 years. Now a GPI consultant, he was at Librascope in connection with a new weapons system being considered by GPI.

A massively muscled man with a barrel chest developed (as told in his biography "Hitch Your Wagon") by chopping two cords of wood a day during his youth in Norway, Colonel Balchen's hearty appearance belies his years.

True to his background as the man who helped bring science into airplane cockpits, Colonel Balchen displayed great interest in the pilot sights and other optical devices he saw being built at Glendale and the navigational computers at San Marcos. In addition to being one of the world's great pilots he also is an engineer and a skillful machinist.

("Hitch Your Wagon" tells of how Balchen, then a Norwegian Air Force flier, rebuilt the skis of Admiral Byrd's plane after they had been damaged in landing at Spitsbergen, so that the ship could take off and make the first North Pole flight in May, 1926.)

Colonel Balchen helped build the first Army Air Force base on Greenland, and commanded the forces there which com-

bined rescue operations with attacks on Nazi-operated weather stations on the ice-covered island, during World War II.

Later in the war, Colonel Balchen organized and led a special OSS airlift to ferry thousands of underground fighters into Norway and himself took part in numerous sabotage acts against the Nazis who occupied his homeland.

An American citizen since 1929, Colonel Balchen has never lost touch with the land of his birth. He was one of the founders of the forerunner of the present Scandinavian Air System before World War II, then helped reorganize it after the war, while on leave from the U.S. Air Force. He ended his USAF career as commanding officer of the 10th Air Force Rescue Squadron in Alaska.

Management Meeting

Librascope's annual management dinner meetings will be held Feb. 10 and 11 at Burbank and San Marcos locations. Scene of the Glendale area meeting, on Feb. 10, will be the Castaway restaurant, 1250 Harvard Road, Burbank. Location of the San Marcos meeting, on Feb. 11, is the Quails Inn, San Marcos.

J. J. "Jock" Murphy Heads D. C. Office

(WASHINGTON) Librascope's Washington regional marketing office is now headed by John J. "Jock" Murphy, who previously was Washington marketing manager for Motorola Corp. and the Sperry Gyroscope division of Sperry-Rand Corp.

Murphy succeeds Myron Prevatte, now on an extended leave of absence to attend special courses at George Washington University. Prevatte also will act as consultant for Librascope.

The new Washington manager is a 1936 BS/Math graduate of St. Peter's College, who also took graduate work at Brooklyn Polytechnic Institute. During World War II he enlisted as an Army private, was discharged four years later as Major in the Ordnance Corps.

Prior to his five-year Washington span with Motorola and Sperry, Murphy spent nine years with American Motors, first as aircraft products manager and then as general sales manager. While with Sperry he headed the marketing effort on the Polaris and Sergeant missile projects.

Murphy is a member of SAE, IEEE, AIAA and AFCEA and both speaks and writes French and Spanish. He is married, the father of three teen-agers and makes his home in the Westmoreland Hills section of Washington.



Name J. A. Mahoney AED Customer Head

(SAN MARCOS) James A. Mahoney, formerly of Kearfott Division, Aerospace Group, GPI, is the Avionic Equipment Division's new director of customer services.

At AED, Mahoney's responsibilities include Field Service, Spares, Publications and the Repair Depot. They parallel those he had as area representative, logistics, while with Kearfott.

Prior to joining Kearfott, Mahoney was a group supervisor with the ground support equipment section of the Jupiter missile project at Chrysler Corp. Earlier he was a senior field engineer with Sperry Gyroscope division of Sperry-Rand Corp., assigned to overseas support of aviation fire control systems.



TWO YEARS away from Glendale Engineering drafting board, didn't dull the skill of Draftsman Carl Jappe, (R), because the Army kept him busy in the same line of work all the time he was gone. Supvr Bob Halloway agrees that Carl hasn't lost "the touch."

Call for Papers

Calls for papers have been issued by the International Symposium on Global Communications, the 19th Annual Meeting of the Ass'n for Computing Machinery and the Western Electronic Show and Convention. Details as to due dates and other requirements may be obtained from Group Public Relations, Bldg. 103, Glendale.

Waste Prevention Is ImpAct February Theme

(GLENDALE) Librascope's group-wide ImpAct campaign to cut costs enters its third phase this month, Theme of the February project—Waste Prevention.

"Waste can mean the difference between profit and no profit," says Clifford S. Godwin, ImpAct committee chairman, "and a company needs profit to survive in the highly competitive marketplace of today."

Singled out for special attention in this month's drive are the purchase and use of supplies, the proper use and maintenance of production and office machinery, utilization of building space and use of internal reproduction processes such as blueprints, offset printing and similar duplicating operations.

All department heads and supervisors are being urged to survey their areas and to come up with concrete ideas on how waste can be avoided, or eliminated.

The ideas are to be forwarded to the Cost Reduction Committee for study and future implementation.

It is by their ability to die for something incomprehensible to the vast majority that a handful of men have succeeded, over the centuries, in winning the respect of the world. —Jean Anouilh

"KP Once a Month Now", Says Jappe

(GLENDALE) Engineering draftsman Carl A. Jappe has returned from his two years of military service with a tale strange to the ears of all who wore the Army's uniform in World War II.

Carl, who joined the then Shipboard Engineering Department of Librascope in October, 1960, was drafted a year later. After basic training at Fort Ord, he was shipped to Fort Sill, Okla., home of the Army's Artillery Corps. He looked forward to career as a canoneer.

However, the modern Army likes to take full advantage of civilian skills, Carl discovered. His first—and last assignment—was as a military draftsman!

"I never put down my drawing pen for two years," Jappe told LIBRAZETTE, "except for once a month KP." (Once a month!)

Librascope is getting a more experienced draftsman than when he hired in, Jappe believes, because of his military service.

"We worked in ink all the time—no pencil—and I picked up some very useful techniques working on maps and charts," Jappe says.

Carl also brought back two new additions to his family, Mrs. Carl Jappe, the former Karen Edkins of Burbank, and Cari Jappe, born 10 months ago in the Army hospital at Fort Sill. (Total medical costs to Pvt. Jappe: \$5.00!)

Carl is not only back on the job, but back in school, picking up where he left off at Glendale College when he went on military leave two years ago. He's working for his AA certificate.

I shall never be influenced by any consideration but one: Is it the truth as I know it—or better still, feel it? If so, shoot, and let the splinters fly where they may.
—Eugene O'Neill

J.T. Parry Heads Market Development

(GLENDALE) James T. Parry, president of the Southern California Chapter of the American Marketing Ass'n and director of that organization's defense division, has joined the Librascope Group marketing department as manager, market development.

A native of Gary, Ind., Parry graduated from Lake Forest College in 1950 with a BA/Econ degree, received his MBA/Marketing degree from Indiana University in 1951.

Parry has been identified with marketing and market research throughout his career. With Thompson-Ramo-Wooldridge's computer division he was a district representative, requirements analyst and proposal engineer. With Hughes Aircraft he directed market research in space systems, air defense, command and control and undersea warfare systems.

Parry is married, the father of three and makes his home in Woodland Hills.



Washington Eng. Move

The Washington Engineering Department of the Surface Equipment Division, has completed the move from Bethesda, Md., to its new quarters in Rockville. Md. The new address: 12701 Twinbrook Parkway, Rockville, Md., 20851.

Tax Forms Available

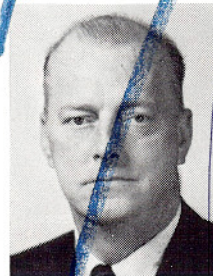
Supplies of Federal and State Income Tax Return forms are now available to employees in company Personnel Offices. Due date for filing is April 15 for both State and Federal returns.

T. M. McAuliffe Is AED Mfg Manager

(SAN MARCOS) Thomas M. McAuliffe, formerly vice pres., manufacturing, of Lear-Siegler Corp.'s Astronics Division, has been appointed Manufacturing Manager of the Avionic Equipment Division by Div.-Mgr. Fred A. Darwin.

A 1939 graduate of the University of Washington (Math-History), McAuliffe has been engaged in defense manufacturing for the past 17 years. Prior to joining Lear-Siegler, he was director of manufacturing for Pacific Mercury Electronics, for four years, and for 10 years was division manager of Central Commercial Co's electronics division.

McAuliffe is an army veteran of World War II, in which he spent three years in tank units of Armored Divisions. He is married and the father of five children, ranging in age from 10 to 18.



R. R. Bonkowski Named To R & S Center Post

(GLENDALE) A reconnaissance and surveillance systems and data management section has been established as part of the Space Information Systems Group of Librascope's Research and Systems Center.

Named to head the section by Dr. Myrle V. Cross, director, is Ralph R. Bonkowski, who comes to Librascope from Electronic Specialty Corp., where he was responsible for the development of airborne ELINT (Electromagnetic Intelligence) data processing systems.



Previously Bonkowski was Chief for Surveillance and Warning Systems of North American Aviation's space and information systems division, and a senior staff engineer in Hughes Aircraft's aerospace division, responsible for design of synthetic array radar systems for high speed, high altitude reconnaissance vehicles.

Bonkowski earned his BS/Physics degree from the University of Michigan in '52, where he was awarded his MS/Physics degree in 1954. He became a candidate for the PhD at his alma mater in 1955. He is the author of a series of papers on electromagnetic wave scattering, published by Michigan's Engineering Institute.

How Centaur Computer Is Put Together

(SAN MARCOS) The several score men and women working in the area all wear white coats or jackets, and some wear white nylon gloves as well. Each sits at a modern, multi-leveled work table, contoured to fit the job being worked upon. The lighting is bright, but not glaring, and is virtually shadow-free.

This is where the electronics of the Centaur computer, heart of the inertial guidance system of the Centaur space probe vehicle, are put together, in a special section of the assembly area in the Avionic Equipment Division plant at San Marcos.

The general atmosphere is more like that of a hospital than a factory and this clinical setting is no accident. Every part of Centaur is handled as though it were a delicate living organism, and is joined to other parts with the delicate care of a neurosurgeon.

Not far away, in the same building, is AED's dust-free room, where the impression of a medical clinic is even

stronger. Here, in a completely isolated building-within-a-building, the mechanical elements of the computer are put together by assemblers completely garbed in white, again to reduce chances of dust getting into delicate moving parts.

But there isn't any dust, or other foreign substances in the working area, at least, so little and so minute in size, that it takes very delicate instruments to detect. The air supply is completely filtered, each assembler gets an "air-bath" when entering the room to remove loose foreign substances from his own clothing. His shoes walk on a "tacky" carpet, leaving all dirt behind. Caps, gowns and gloves are donned after the airbath.

All of this special effort in both assembly areas is to prevent computer malfunction that could be caused by foreign substances gaining entry to the mechanisms during manufacture. It has paid off: there have been no failures of any kind attributable to lack of care in assembly.

The next Centaur flight is scheduled

for some time in April, according to Milan Telian, Centaur project manager. It will be another "open loop" test flight, in which the computer will function, but not operate the flight controls. The first operational test of the guidance system will come on the fourth flight, at a date not yet announced.

Meanwhile, the assembly operation continues. On the page opposite are a series of photographs taken during a typical work day. From left to right, across the top:

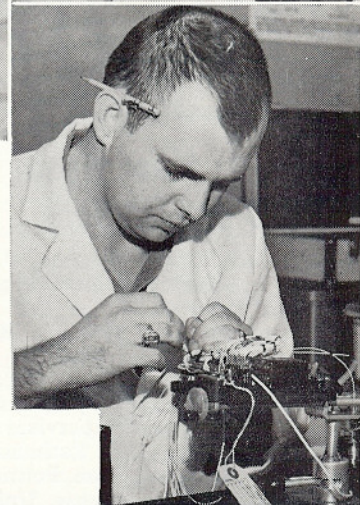
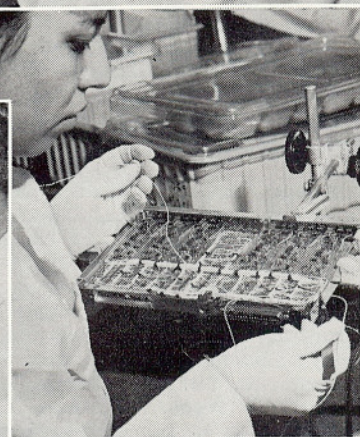
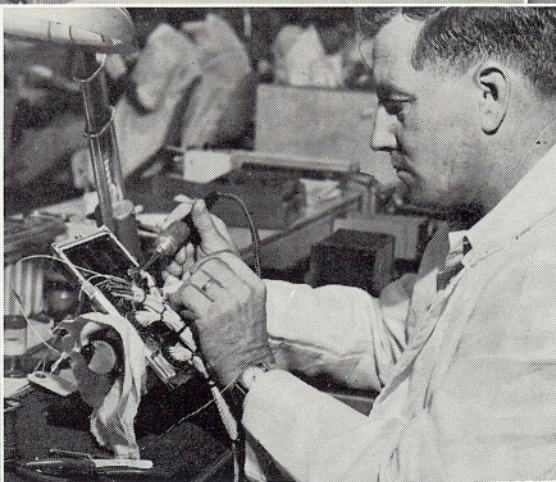
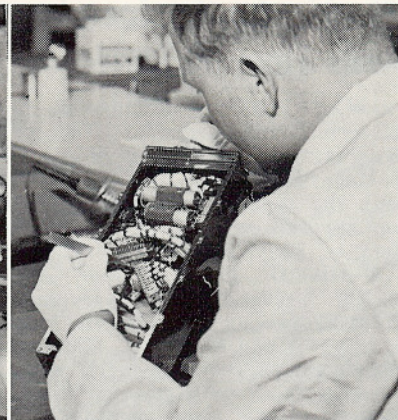
1) Mae Burns, GAE leadman, checks operation sheet as GAE wireman Loretta Staffen wires test unit; 2) Georgianna Beko, GAE, checks wiring under microscope, as Linda Keaton, GAE, receives instruction from Foreman Jack Bareis; 3) GAE Dick Anderson wiring input/output unit.

Second row, left to right: 1) Inspector Louise Elrod reviews circuit board after final assembly; 2) GAE Fred Roberts in pre-wiring phase of input/output front panel; 3) Caroline Solis, GAE, wires logic section of flip-flop circuit board.

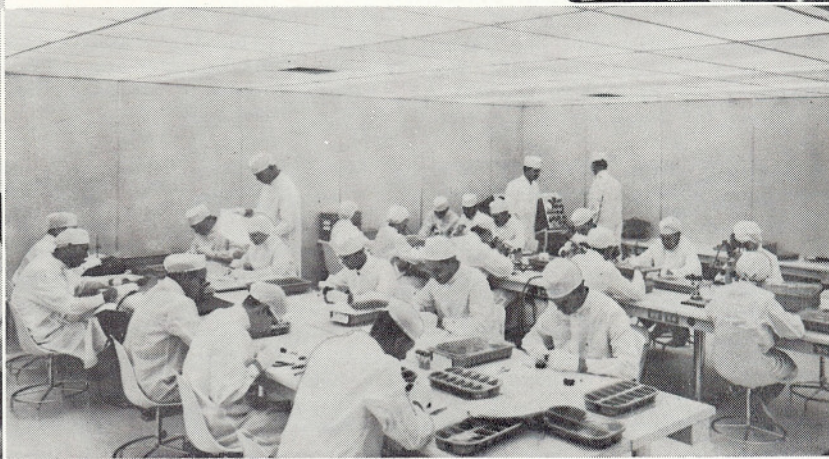
Third row, left to right: 1) GAE Anna Leonard wiring computer section, with GAE Leadman Mae Burns providing supervision; Don Bettencourt, GAE, wires a relay package; 3) interior of Class II Clean Room, showing assembly of modules and memory drum.

1963 Precisioneers Christmas Dance





SAN MARCOS CENTAUR ASSEMBLY



Washington Engineering Adds Four to Staff

(WASHINGTON) Buildup of the engineering and technical staff of the Washington Engineering Dept. of the Surface Equipment Division continues, with the appointment of four engineers and supervisors by Manager Harold Timken, Jr. They are:

Harris G. Prival, senior engineer, BSEE University of Maryland, '53, M/SEE, Massachusetts Institute of Technology, '58 and MA-Math, University of Maryland, '63. Prival formerly was a systems engineer with General Electric at Bethesda and a senior engineer with Litton Industries' College Park, Md., facility.

John F. Cashman, engineer, who studied at George Washington University. A specialist in mechanical design, Cashman was with Emertron, Inc., Silver Spring, Md., for six years, before joining SED.

Shlomo Laufer, optical supervisor, a second-generation optics expert who acquired his knowledge and skills in his father's factory in Germany. An immigrant from Israel three years ago Laufer comes to Librascope from American Instrument Co., Silver Spring, Md. Previously he spent nine years with Goldberg Instruments, Ltd., in Tel-Aviv.

Oliver J. Webb, mechanical designer. Webb comes to Librascope from Pneumodynamics Corp., Silver Spring. Previously he was on the design staff of Erco division of ACF Industries, Riverdale, Md.

CoFano Is New Head Of AED Publications

(SAN MARCOS) Angelo P. "Lee" CoFano, has been appointed Supervisor, Technical Publications, of the Avionic Equipment Division, by J. A. Mahoney, Director, Customer Services.

CoFano, a native of Utica, N.Y., comes to AED from General Dynamics/Astronautics, where he was Supervisor of Publications Planning and Estimating for five years. He is an Econ/Political Science graduate of Syracuse University, class of '55.

CoFano, married and the father of three, is a veteran of World War II (Marines) and the Korean War (USAF). He makes his home in San Diego.



COFANO



GOULD



BLAKE



COHEN



THREE PRESIDENTS here, as Librascope Group President R. W. Lee, presents Junior Achievement company charters to Lynn Walker (L) and Steve Eberle, who head the Cal-Top and Quali-Co companies sponsored by Librascope. Occasion was the annual company luncheon for JA officers and Librascope advisors.

UP THE LADDER

Clarence C. Gould, who joined Librascope almost six years ago, has been appointed Manager, Operations Accounting, Librascope Group Offices. He reports to Ken Beiriger, Controller.

Gould, who had been senior contracts specialist in LGO contracts, joined the company as a staff accountant in Feb. 1958, subsequently was a senior internal auditor and supervisor of cost accounting. He is married, the father of two and makes his home in Pacoima.

* * * *

(GLENDALE) Appointment of E. B. ("John") Blake, Jr., as Superintendent-Assembly, and Kenneth J. Cohen as Superintendent-Machining, is announced by Lloyd C. Somerfield, Production Superintendent, Surface Equipment Division.

Blake, a 17-year Libravet, joined the company as a wireman in Feb, 1947, had previously been general foreman in adjusting and assembly.

Cohen, previously assistant to the manufacturing manager and senior industrial engineer, has been with the company since June, 1962.

Librascope Is Host To Junior Achievers

(GLENDALE) Pres. Richard W. Lee and members of the Librascope advisory teams were hosts to the members of Cal-Top and Quali-Co — two company-sponsored Junior Achievement companies—at a recent luncheon in the Five Horsemen restaurant in Burbank.

Occasion was the formal presentation of Junior Achievement company charters from the parent organization, to the heads of the high school student groups, with Mr. Lee doing the honors.

Speaking informally, Mr. Lee discussed on the role of modern management and the importance of proper educational preparation. Harlan Buseth, Manager, Operations, Surface Equipment Division and Robert O. Vaughan, Vice President, Marketing, Librascope Group, also spoke.

Cal-Top, which produces and markets a novelty toy called the "Krazy Top," and Quali-Co, whose product is a ball-shaped pen desk set, both operate from the Junior Achievement center in Burbank.

Cal-Top's president is Lynn Walker, a three-year Junior Achievement veteran, and student at John Burroughs high school, Burbank. Quali-Co's chief executive is Steve Eberle, a student at Burbank Senior high school.

Acting as advisors to the two companies are Dwight E. Roof, Casper C. Dracy, William M. Walker and Harold Compton, all of Cal-Top, and C. R. "Bud" Linsley, Don Derrington, Dave Sanson, and Mary E. Barnes, for Quali-Co.

"There is no limit to the good a man can do—if he doesn't care who gets the credit."
—Thomas B. Watson

Something New In Taxes: Form 1099

(GLENDALE) Something new has been added to the enduring relationship between the American taxpayer and his Government.

The new factor, expected to be as lasting as the Federal Income Tax itself, is called Form 1099. It's a sort of companion to Form W-2.

Like Form W-2, Form 1099 is used to report your income to the Federal government. However, Form 1099 explores new fields where Form W-2 never dared to tread.

These new fields are savings accounts in banks, credit unions, building and loan associations, and your stocks and bonds. Form 1099 is used by these financial institutions and by companies paying cash or stock dividends, to report these earnings to the Internal Revenue Service.

It used to be that the IRS trusted us to report this unearned income. But, at the prodding of the IRS, Congress passed a law last year requiring all interest and dividend paying organizations to tell Uncle Sam who got the money—and how much.

Like Form W-2, Form 1099 comes in sets of three; one goes to the Internal Revenue Service, and two go to you. You attach one to your income tax return when you file with the IRS and keep the other.

It can be safely assumed that most of us who own dividend-paying stocks, have shares in a credit union, or money in savings banks, are going to be paying larger tax bills. Uncle Sam is counting on it to help in reducing the budget deficit!

\$100 Patent Awards To Four SED & CCD Men

(GLENDALE) The Librascope Group patent incentive award program recently gave checks for \$100 each to two employees of the S.E. division engineering department, and to one present and one former employee of the Commercial Computer division.

The awards were granted when the Group patent department filed applications on devices designed by the four, with the U.S. Patent Office.

Award winners are: Alfred W. Sanborn, senior electronic engineering associate, and Bruce C. Perkin, both with SED Engineering, Norman J. Bose, project engineer in CCD's components engineering department and George N. Malina, engineer, formerly with CCD.

Nothing is so firmly believed as what is least known. —Montaigne

LIBRAZETTE



HEAR Foundation's program to aid deaf and hard-of-hearing children to hear normally is \$928 closer to its goal as result of Precisioneer Christmas card drive. Bill Cawthra, Precisioneer president, second from left, presents check for Librascope employee gift to Dr. Ciwa Griffiths director and founder of HEAR. At left, Eileen Brown, Precisioneer coordinator; at right, A. R. Pederson, Supvr Employee Benefits and Services, who aided in drive.

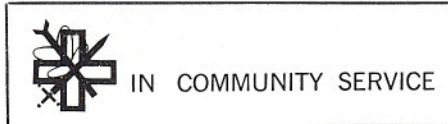
Dr. Peter Gottlieb Joins R&S Center

(GLENDALE) Dr. Peter Gottlieb has joined the Naval Systems group of the Librascope Research and Systems Center as a staff physicist reporting to Steven Molivadas, director.

Dr. Gottlieb comes to Librascope from the research laboratories of Hughes Aircraft, where he had been a member of the technical staff since achieving his Ph.D., at the age of 25 in 1959, from Massachusetts Institute of Technology.

He also was a research associate with the University of California at La Jolla, during the same period.

Author of numerous papers on underwater acoustics published in the Journal of Applied Physics, the Journal of the Acoustics Society of America and the Physical Review, Dr. Gottlieb earned his B/S Physics at Cal-Tech, after earlier study at the University of Chicago. He is married and makes his home in Santa Monica.



Sidney L. Briggs, Vice-Pres., Administration, Librascope Group, has been elected president of the Glendale Chamber of Commerce. With other new officers, he was installed Jan. 22 at the chamber's 43rd annual dinner.

Briggs, who previously was a director and vice president of the chamber, has long been active in serving his home community. He is a past president of the Glendale Community Chest and a past board member of Glendale AID.

Employees Give \$1238 To HEAR Foundation

(GLENDALE) Employees of the Commercial Computer, Surface Equipment Avionic Equipment divisions and Librascope Group Offices, raised \$1,238 for the HEAR foundation in the annual "Christmas tree" campaign.

The 1963 campaign was the fifth consecutive year that employees chose to help HEAR, the organization devoted to detecting and correcting hearing defects in young children.

Funds collected in the Glendale-Burbank area—\$928—will be presented to HEAR's headquarters in Los Angeles, to help finance further research efforts; the \$310 contributed by AED employees will go to HEAR's San Diego county chapter to help support the work there.

Staff Engineer Leonard Ludvigsen of CCD, is HEAR's volunteer director of audio research and has designed and built virtually all of its electronic testing equipment, with the aid of our Christmas campaign funds.

LIBRAZETTE is published for all employees of the Librascope Group, GPI, to keep them informed about Group and GPI plans, policies, products and personnel. LIBRAZETTE is produced by the Communications section, Librascope Group, at 808 Western Avenue, Glendale 1, Calif. © 1964 by Librascope Group, General Precision, Inc.

Editor: W. K. Keith

Art and photographic services are provided by the Publications Section, Surface Equipment Division: Keith A. Kinnaird, Art Director; Peter J. Maimone, Supervisor, Art Services. Special art and photo layout by James R. Norwood, Jr., George V. Brull, Roy T. Brown and Andrew M. Cook. Photography by James A. Avera.



NEW FACES

(GLENDALE) James M. "Mel" Jones, who eight years ago was a technical writer in Librascope's technical publications section, has returned to the company as a senior staff engineer in the Research and Systems Center.

Jones, who spent the intervening years with Hughes Aircraft research labs as a member of the technical staff, has been assigned to the Space Information Systems section headed by Dr. Myrle V. Cross. His initial assignment: studies of data management requirements for space vehicle and missile reentry and defense systems.

A native of Atlanta, Ga., Jones studied at New York University, Cooper Union and UCLA. He is married, the father of three children aged 10, 8 and 5, and makes his home in Northridge.



JONES



OGATA

(BURBANK) Calvin T. Ogata, recent graduate in applied physics from UCLA, has joined the staff of the Products Engineering group of Commercial Computer Division.

Ogata, who reports to Supvr Chai Byun, will be working on encoder and other component development.

While earning his degree and during summer vacations, Ogata was an associate research engineer on ASW and ocean systems projects for Lockheed, a research assistant in UCLA's department of meteorology, a research analyst with Pacific Semiconductors and North American Aviation.

SDI Tax Change

Benefits available under California State Disability Insurance go from \$75 a week to \$77 a week this year, but the payroll deduction we pay to support the program goes up, too. SDI taxes now are based on 1% of the first \$5,100 of our earnings, instead of last year's 1% of the first \$4,600, an increase of \$5 per year.

If you worked for more than one employer during 1963, you may have paid excess SDI taxes. Refund forms to obtain repayment are available from all Personnel Offices.



USS GOLDSBOROUGH, one of the Navy's newest guided-missile destroyers, cuts through the waters of Puget Sound, in this photograph taken during her sea trials. Equipped with ASROC, whose fire control equipment was built by the Surface Equipment Division, GOLDSBOROUGH is the fourth ship to bear the name of the famous Rear Admiral Louis M. Goldsborough, famous sea fighter of the Mexican and Civil Wars. Her skipper is Commander Charles D. Allen, Jr., and her fire control officer is Lieut. (JG) William F. Meng. She has joined the fleet at Pearl Harbor. (U.S. Navy photo)



HUGE CAKE and a special going-away present from his fellow machine shop workers, were surprises for Robert C. "Bob" Thompson (C) when he retired Dec. 27 from Surface Equipment Division. The surprise, presented to him by Foreman Cesar Goldstein (at Bob's left) was a brand-new wallet, with an equally brand-new \$100 bill tucked inside. Bob, who will be 72 next May 1, joined Librascope Jan. 22, 1953.

Terrill to Army

Stanley C. Terrill, microfilm technician in Surface Equipment division Reproduction Services, has reported to Fort Ord, Calif., to fulfill his Selective Service requirements. He has been granted a two-year military leave. The son of Margaret Terrill, department secretary in SED Customer Training, Terrill joined Librascope two years ago as a messenger.

Metrology Move

Librascope's Metrology Laboratory is now established in its new leased quarters at 8230 Haskell avenue, Van Nuys. The telephone number remains the same—781-5643. Mail to the laboratory, originating in the Los Angeles area, may be sent through Glendale headquarters, or directly to the Haskell avenue address. The ZIP code number is 91405.

Turing Is New Supvr In Librascope EDP

(GLENDALE) Francis E. Turing has been appointed Supervisor, Data Processing Administration, by R. M. Anderson, Librascope Group data processing director.



Turing, a 1957 accounting graduate of the University of Cincinnati, succeeds Harry Ewing, resigned.

While with the United States Life Insurance Company general offices in New York, Turing

was a methods analyst, assistant manager of general accounting and staff assistant to the controller. He supervised transition of policy accounting from a punched card system to a magnetic tape system. Earlier he was an accountant with Arthur Young and Company, CPA, in New York.

A native of Ivyland, Pa., Turing now makes his home in Hollywood.

If you've been thinking of going overseas and faraway on this year's vacation, it's time to start planning, says Barbara Tubbs, Precisioneer activities coordinator. Presented below is a tentative list of tours. Check the one which interests you, or write-in a tour more to your liking and send the coupon to Mrs. Tubbs in Bldg. I-03, Glendale. There is no obligation involved.

App

- | | |
|---|----------|
| <input type="checkbox"/> Hawaii for 14 days | \$ 425 |
| <input type="checkbox"/> Tahiti for 14 days | 850 |
| <input type="checkbox"/> Mexico for 10 days | 275 |
| <input type="checkbox"/> Europe for 23 days | 1,095 |
| or | at |

your choice

There would be.....people in my party should I decide to go on this year's tour.

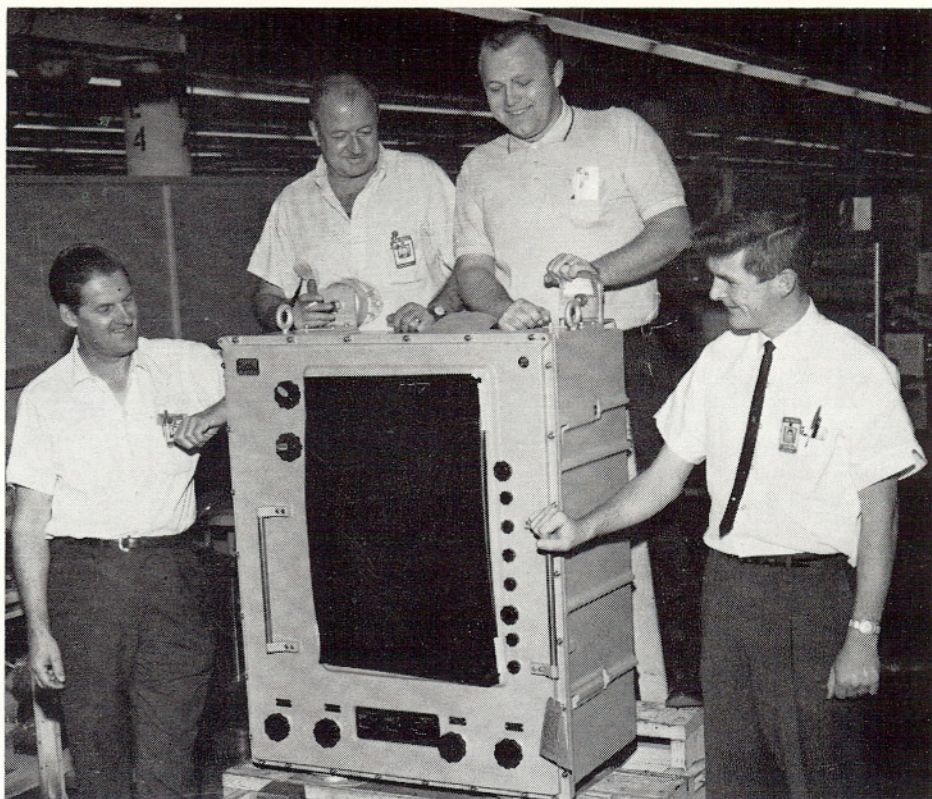
Employee's name

Extension

Save \$60,000 (from Page 1)

the Mk 113. It had long been suspected that a protective coating called for in specifications was redundant. The problem was to prove it.

Some 400 hours of reliability tests in the SED reliability labs and a 46-page report written by Value Engineer Alan LaRue, convinced the Navy that the proposal to drop use of the coating was sound and worthwhile. The specification was altered; in turn, this eliminated the need for a second functional test operation.



THIS MARK V Attack Director (with console face masked for security reasons) was 87th and last in current modification contract under the Navy's FRAM (Fleet Rehabilitation and Modernization) program with the Surface Equipment Division. Adj-Tech Harry Pace, Final Assembler Art Sagar (who worked on original Mk 5 models), Leadman Joe Schlagel, Adjusting, and Adjusting Foreman Bill Dayton bid farewell to "Old Reliable."



NEW GUARD CAPTAIN Dick Porter (C) is flanked by Librascope security director Virgil Herald (L) and Ass't Security Officer Charlie Myers in photo taken at security headquarters in Bldg. A15. Porter is staff member of California Plant Protection, Inc., newly retained to provide uniformed security service at Glendale.

It is planned to determine if the specification change can be applied to other programs as well. First to be examined, the Mk 5 FRAM program.

Librascope's value engineering program is now in its third year. It has been a two-pronged offense aimed at getting the most out of every tax dollar in our engineering and production work.

On the design front the emphasis has been on achieving maximum functional efficiency by creating designs that are easier to manufacture; on the production

front it has meant constant review of manufacturing processes and specification requirements to eliminate unnecessary steps that increase costs.

The value engineering effort extends throughout the Librascope Group. Current airborne computer manufacturing processes at Avionic Equipment Division, for instance, are based on recommendations which came out of several value engineering seminars on ASN-24 design and assembly.