



LIBRAZETTE

AN EXCHANGE OF NEWS AND KNOWLEDGE

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AUGUST, 1961

808 WESTERN

Military Call-Up

Some 50-plus Librascope men—and one woman—are members of organized reserve military units, a spot check reveals, but as LIBRAZETTE went to press none had received official notice of a call to active service in the present emergency.

Unofficially, however, members of the Air National Guard's 146th Transport group at Van Nuys Airport, have been told to expect a call-up in September.

Three Librascopers are members of the Transport Wing: Aerospace field engineer D. L. Gallop is a 1st Lieut-Navigator; Paul Diamond, Glendale Publications tech writer is a T/Sgt Loadmaster; and Richard X. Johnson, Glendale Engineering production test equipment-design draftsman, is a T/Sgt flight engineer.

Carolyn J. Nielsen, a technical illustrator in Glendale publications, is Librascope's lone woman reservist. She is a Hospital Corpsman 3/c (hopeful of a pro-



RESERVIST NIELSEN

motion to 2/c) in the 11-32 Surface Division, USNR, at the North Hollywood naval reserve center. Like her fellow reservists, she has had no word of a call to active duty.

"A considerable number" of Librascope employees are in the age brackets subject to the military draft, C. P. McKeague, Division director of employee relations told LIBRAZETTE. A survey is being made to reflect records up to date to reflect any recent changes in individual draft status.



FLIGHT BAGS READY—Three members of the 146th Air Transport Wing check over equipment following notification of the group's priority status among National Guard Units. Librascopers pictured above are: T/Sgt Richard Johnson, 146th Construction Aircraft Maintenance Squadron (CAMRON); Paul Diamond, T/Sgt Loadmaster, 195th Air Transport Squadron; and 1st Lt. Don Gallup, 115th Air Transport Squadron navigator.

Preparedness Study

The impact of the nation's preparedness program upon Librascope operations now and in the future, will be studied by a special committee appointed by President W. E. Bratton.

Chairman of the group is W. F. Girouard, Division director of industrial engineering. Other members:

Vice Presidents M. L. Lindahl, D. C. Webster, S. E. Burroughs and J. R. Harkness, and S. L. Briggs, assistant to the president.

New Study Group Officers

New officers have been named for the Management Study Group's second half-year. O. H. Shoemaker, Glendale, succeeds M. L. Foster, Glendale, as chairman. Other officers: 1st Vice-Pres, M. G. Ettinghoff, Sunnyvale; 2nd Vice-Pres, W. P. Strong; 3rd Vice-Pres, M. L. Cowan; 4th Vice-Pres, W. J. Picker, all of Division.

Paul Stillson, Shell Development Corp., will speak on "Operations Research" at the group's Aug. 15 meeting.

GPI Visitors

Dr. R. L. Garman, Vice-Pres., Engineering and Research for General Precision Equipment, and Maxwell B. Bassett, newly appointed Vice-Pres., Systems Management for General Precision, Inc., were scheduled to visit Librascope Aug. 17 and 18.

For Bassett, who also is a GPI director, it was his first visit since joining GPI. He formerly was director of corporate planning for the Martin Co. He has overall responsibility for the development, marketing and management of advanced programs.

Dr. Garman, who has been appointed to the newly-created post of Vice-Pres. and Chief Scientist of General Precision, Inc., directs and coordinates all advanced scientific efforts for GPI and its four divisions.

LIBRAZETTE

**GENERAL
PRECISION**

LIBRASCOPE DIVISION
GENERAL PRECISION INC.
GLENDALE 1, CALIFORNIA

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Editor: W. K. Keith; Assistant Editor: T. L. Ryan.

Adm. Mundorff Signs On

Rear Adm. George T. Mundorff, USN (Ret), has transferred from General Precision, Inc., to become assistant to Vice-Pres R. E. Hastings of the Burbank branch, with the specific assignment of assisting in coordination of all relations between Burbank and Royal Precision, Inc., and Royal McBee Corp.



Royal McBee markets the Royal Precision line of computers and data processing equipment

manufactured by Burbank for Royal Precision.

Admiral Mundorff leaves his post as Manager, Corporate Systems and Procedures for GPI, to take on his new assignment. Previously he was manager of Business Administration for Link Division. He is an authority on the Line-of-Balance management system.

A 30-year Navy veteran, Admiral Mundorff has served as Ass't Chief of Naval Intelligence, Ass't Chief of Naval Material, Division Director with the Bureau of Aeronautics and on the staff of the CNO. A naval aviator, he is a 1926 Annapolis graduate.

MARKETING

WESCON Show

Librascope branches will exhibit a full array of commercial and military products at the WESCON trade show and convention Aug 22-25 in San Francisco.

The accent will be on components, with Burbank leading the field with its complete line of encoders, converters, servos and servo-amplifiers.

Glendale will exhibit servo modules from the Mk 130 and 138 systems, will

A Sense of Urgency . . .

All Americans are deeply involved in the international tug of war over Berlin and we at Librascope are involved in a special way, because we are an important part of the free world's defense arsenal.

The President's actions to strengthen our military posture is evidence that this country intends to convince Russia that we take our commitments seriously.

We have played an important role in support of the Armed Forces ever

since Librascope was founded 24 years ago. It may be that we will be called upon to provide even larger and stronger support than ever before.

I know that, as a working group we have the necessary capability; as individuals we have it, too. A sense of urgency is developing and we need to feel it throughout the organization.

We need this sense of urgency because the stakes are high and the game is played for keeps.

W. E. BRATTON

show models of the Mk 53 attack console, the Mk 114 fire control system and the FRAM project.

Aerospace will display its L-600 missile and space vehicle computer. Sunnyvale-at-Sunnyvale and its Ground Systems Dept will display a pilot sight, photogrammetry devices and elements of its EBW system.

Applications engineers and sales officials, headed by Vice-Pres for Marketing J. R. Harkness will attend the show and convention.

Looking Ahead

Librascope and its employees will be paying more for our Federal Social Security benefits next year, says Mildred Huggins, Division assistant controller. The rate goes to 3½% from 3%, to pay for the benefits increase Congress voted this year. The employee tax applies only to the first \$4,800 of individual earnings, which Librascope matches.

ENGINEERING

Moving Day

Aerospace's move to San Marcos gets underway this month, with two groups—Centaur and Saturn engineering, plus necessary supporting units—scheduled to start operations in the first week of September.

Remaining "spacemen" will be shifted in following weeks, with all whose duties require them to be in San Marcos due to arrive in early October, according to Branch Manager H. W. Norris.

Construction of the building is being rushed and working space will be ready for the first and following groups, Norris said. The structure is scheduled for completion in October.

Up to date information on the San Marcos area's residential, recreational and educational facilities, were described at a recent luncheon of the Aerospace Wives group.

The "better halves" of 30 employees

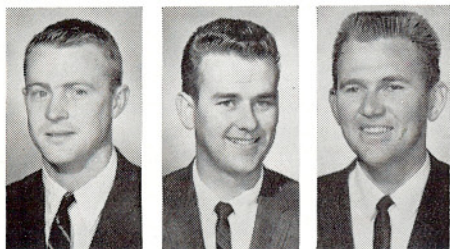


DISCUSSING EDUCATION—Officials from the University of California and San Diego State College visited Aerospace branch last month, conducted a question and answer session for employees interested in continuing their education following the branch's move to San Marcos. Clockwise around the table: J. C. Dillon, head of UCLA Engineering extension; Shelly Lewis, U.C.—San Diego Division; Professor Clifford Bell, Physical Sciences—UCLA extension; J. J. Schwarz, Librascope training coordinator; W. P. Sertic, Aerospace personnel Mgr.; Branch Mgr. H. W. Norris; Martin Capp, Chairman of Engineering, San Diego St. College; and W. H. Shutts, Aerospace Engineering and Mechanics, S.D.S.C.

attended the meeting at the Smokehouse, Burbank, on Aug. 2, chairmanned by Mrs. H. W. Norris. Assisting her were Mesdames A. E. Davis, K. C. Scholl, W. W. Miller, H. D. Jackson and D. V. Schmidt.

Prod-Eng Adds Three

Demands of the Mod 2 and Mod 5, Mk 84 and FRAM production programs, have brought about an expansion in engineering personnel in Glendale production engineering. Newly added to the staff by Supvr Al Leto are:



LaRue

Thompson

Ericsson

Prod-Eng Alan W. LaRue, BS M/E, Cal-Berkeley, '57, recently released from active duty with the Navy as a fire control and ASW officer (Lt.J/G) aboard a destroyer. A scholarship student while at Berkeley, LaRue is married, the father of a young daughter and makes his home in LaCanada.

Prod-Eng Darryl W. Thompson, a 1961 BS-ME graduate of Cal Poly, San Luis Obispo. Thompson, who is married and

the father of one, spent four years in the Navy at Long Beach naval shipyard, earned a journeyman machinist's certificate before going to college. He makes his home in North Hollywood.

Prod-Eng Stanley C. Ericsson, a BS-Physics-EE from San Diego State, formerly with Daystrom Computer Systems at La Jolla, where he worked in research and development of computer systems. Ericsson is a veteran of the peacetime Army, in which he served with a radar anti-aircraft unit.

Gilson Joins Sunnyvale

Sunnyvale Ground Systems recently added Paul R. Gilson to its staff as Technical Assistant to Chief Engineer L. L. Wolman.

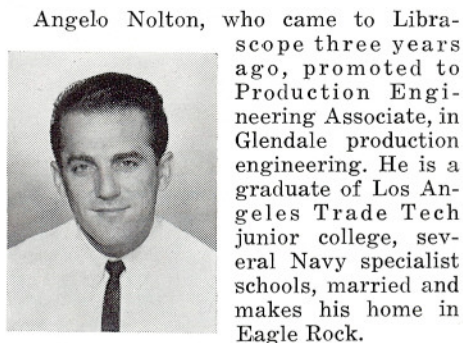


A graduate electrical engineer from the Univ. of Cincinnati, Gilson spent six years with Burroughs Electrodata Corp., Pasadena, as project engineer for all magnetic tape systems.

He joined Beckman Instruments in 1958, serving as associate director of R&D, in charge of digital operations and manager of proprietary products.

Married and the father of three, Gilson makes his home in West Covina.

Up The Ladder



Angelo Nolton, who came to Librascope three years ago, promoted to Production Engineering Associate, in Glendale production engineering. He is a graduate of Los Angeles Trade Tech junior college, several Navy specialist schools, married and makes his home in Eagle Rock.

D. L. Cowen, from electronic tech'n to senior electronic tech'n, Glendale production engineering.

R. O. Choquette, from Production Engineer Associate, to Senior P/E Associate, Glendale.

D. R. Mosheneck, from Production Engineer Associate to Senior P/E Associate, Glendale.

D. F. Sweeney, from methods analyst, electrical, to Glendale Industrial Eng. Assoc.

E. D. Newman, from Senior Prod-Eng Associate, to Supervisor, Production Cost Analysis, Glendale.

This Is My Job:

Man & Machine = A Partnership

It isn't man versus machine. It is man and machine—a partnership.

Such was the observation of Charles S. Pierson, machinist-toolroom jig borer, as he stood beside the massive, numerically controlled machine he operates—the Fostick Model 54-P jig borer.

Pierson, one of two machinists (Bill Lewis is his second-shift counterpart) selected to operate the Fostick last April, has come to appreciate his versatile, hard-working piece of equipment.

"This is a terrific machine tool," Pierson says. "Any piece of equipment that can save as much time as this does and still hold tolerances up to 1/10,000 of an inch, has got to be good."

Once the operator has made his set-up and manual adjustments on a job, may he then push a button and sit back and relax? Not in the least, says Pierson.

"When this machine is on 'automatic' I wouldn't dare walk away from it. There is still plenty of work to be done."

On numerically controlled equipment, the word work, takes on a new meaning for the operator. "It's more a case of supervising the machine's work," Pier-



PIERSON AT WORK

son said, pointing to the sheet of metal set up on the Fostick.

"When we're finished with this gear train bottom plate, there will be 378 holes

of various sizes. And the whole thing will be done without having to reposition the plate."

One of Pierson's major concerns while the machine is in operation, are the programmed feeds and speeds. What, in theory, might be ideal for the machine, may not prove out in operation.

"Now and then, we hit a snag in the program where a particular speed will cause a chatter, or too fast a speed might damage the center drill. When this happens, I make the necessary manual adjustments and notify the programmer so that he can make the corrections on the tape."

For 10-year Libravet Pearson, the Fostick assignment has been a challenging one. Guiding the 28,000-pound machine tool through its programmed paces, making the original set-up and the improvised adjustments, when needed, has proven to be an exacting, stimulating job.

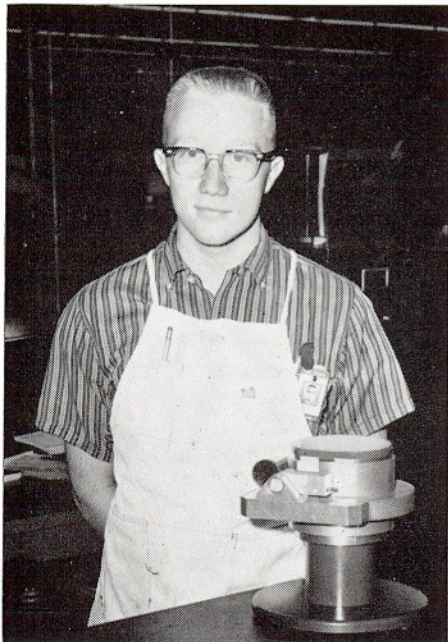
Commenting on his relationship with the numerically controlled jig borer, Pierson says: "In our four months together, we've become a pretty fair team."

PRODUCTION

Team Effort Scores

A third-year apprentice and a prototype shop foreman pooled their talents recently, and came up with a new device that shaves 55 minutes from every hour of testing on memory drum heads.

Taking foreman Roy Van Holm's early design drawings on a drum head testing device, apprentice John Briggs made the



BRIGGS AND HEAD TESTER

concepts an actuality. The result was even better than expected: a piece of equipment that simulates actual working conditions for each memory drum head.

The snag formerly encountered in preliminary testing was that head inductance might register properly, but when placed on the drum, some other functional failure would take place, resulting in a marked loss of time, and an occasional costly injury to the computer drum because of misaligning head. With the Van Holm-Briggs device, these areas of error are now eliminated.

The newly developed head tester fits around the memory drum. The heads are fitted into a movable arm aligned by a disc set 1,000th inch from the drum. The arm is then swung into place and the head is tested from the same surface and RPM as on the actual drum. A set of replaceable fixtures have been designed as attachments to the end of the arm for the testing of various sized heads.

1-2-3-4 Shift!

One thing leads, as the saying goes, to another. Take, for instance, the following:

Aerospace Production needed space early this month, in which to build its

follow-on contract Centaur computers. They were assigned an area in Bldg A-17, then occupied by a unit of Glendale Production Control. This set in motion:

A consolidation of Production Control in Bldg A-01, thereby displacing a unit of Material Control. The MC unit was joined with another MC group and shifted from the rear of Bldg A-02, to the front. This displaced Spares Packaging, which was moved to Bldg A-26, where, after minimum shifting of Aerospace's AASW study group, the whole process came to a successful halt.



Libra Vets

Five Years

WILHELM RAMM
DOROTHY I. NAREGAN
RICHARD E. GUZMAN
HUGH N. KILPATRICK
C. WALT DIEM
WILBUR C. CARTER
JOHN D. KENNELLY
RICHARD E. WILSON
GEORGE J. JONES
DAVID C. BRIGGS, JR.
INA B. BROWN
WILLIAM R. SCALLON
WILLIAM A. TRACY
ELAINE M. CHRISTENSEN
PAUL L. DAVENPORT

BURBANK
GLENDALE
GLENDALE
AEROSPACE
AEROSPACE
GLENDALE
GLENDALE
GLENDALE
GLENDALE
GLENDALE
BURBANK
SUNNYVALE
BURBANK
BURBANK
GLENDALE

Ten Years

ROLAND C. SMITH
HAROLD L. SCHWARTZ
JUANITA K. DELLE FAVE
CHAS. H. FLICKINGER, JR.
CHESTER E. TAYLOR
CRYSTAL I. BOWHAY
EUGENE S. STEEN
JAMES L. HAMMER
M. MURRAY HARRISON
THOMAS A. CORBITT
IVAN L. MAHONEY, JR.
HENRY A. CALLAGHAN
BASIL MARDIS
ISABELLE C. FRYER
WILLIAM R. DAVID
FREDERICK J. KILLIPS
MARY C. SNYDER
ROBERT F. MCCOLLOM
HELEN P. BENSON
BARBARA J. WILLS
VIOLET E. CHADOCK
GORDON A. PICKELL

BURBANK
BURBANK
BURBANK
GLENDALE
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Community Relations

Two-Way Street

Librascope again will be a sponsoring company in the Junior Achievement movement through which high school students learn the workings of modern business. The company will sponsor two JA companies next school year, instead of its usual single entry—and for very practical reasons.

"In the beginning," says S. L. Briggs, Assistant to the President, "sponsoring business saw in Junior Achievement an opportunity to discharge a social responsibility—to see to it that the coming generation learns the workings and advantages of the free enterprise system. Business benefits by this.

"Librascope has learned, however, that we earn an extra benefit through JA sponsorship. Our own employees, who serve as advisers to the achievers, thus have a chance to exercise and display their managerial skills. So Junior Achievement is really a two-way street."

Nominated as advisors for the new season are: E. M. Weinstein and Shelby Drucker, business; R. A. Flores and W. P. Strong, sales; K. W. Parker and C. C. Goldstein, production.

Alternate advisors are R. E. Laperle, D. R. Hersh, D. T. Bowden, R. W. Putnam and L. L. Hey.

Insurance and the Child

Our group hospital, medical and accident insurance coverage for child dependents expires when they reach age 19, reminds A. R. Pederson, Division Supervisor of employee benefits and services.

However, we may convert the insurance, at our own expense, to continue the dependent coverage, Pederson says. See or write him at Bldg I-03, Glendale, for details.



NEW NAVY QUALITY CONTROL representatives from Inspector-Materiel, Los Angeles office, meet with Librascope leaders in Bldg A-17, to learn our QC system. Clockwise around table: John Lowe; G. C. deWolfe, Navy QC supervisor here; Dan Mason; W. K. McAboy, Director Operations Planning; S. E. Nasset; Jack Whitener; Charles Litten; G. S. Mannan, Glendale QC manager, D. H. Harrison, Division QC director.

THE DAY OF THE TRACKER

Space Navigation Aid Passes First Test on Mountain Side

(Field testing is often the critical yardstick applied to new products when an accurate measurement of capability is needed. The following is the account of an unusual test recently conducted on a mountain side by a Sunnyvale Ground Systems team headed by project manager Morris Birnbaum. Photos by Ted Carpenter.—Ed.)

It was an expedition into the San Bernardino mountains for the Sunnyvale Ground Systems trio of project manager Morris Birnbaum, engineer Phil Salomon and senior electronic technician Ted Carpenter, but not of the vacation variety.

They were out to make a scientific point.

In the back of their rented ton-and-a-half truck was a bizarre assortment of outdoor equipment. Strapped firmly to the sides of the flat bed were two oscilloscopes (on loan from Ground Systems), and an assortment of sundry-sized boxes, cables and containers. Attached to the rear of the truck was a five-kilowatt generator.

Their destination was Butler Peak, a site 8000 feet up on the eastern face of the mountain range. If the experiment proved successful, the trio would accomplish a first in scientific tracking.

Their quarry, however, was not to be found on the rugged mountain side. It was in the heavens—the planet Venus—seen clearly during the early morning hours, but invisible to the naked eye through the remainder of the bright, mountain day. Their assignment: to electronically track its path across the sky.

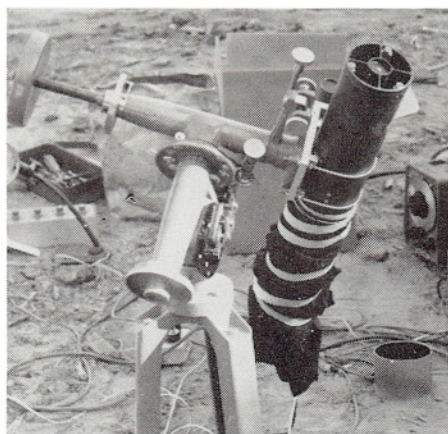


SIGHTING IN—Engineer Phil Salomon (standing) reloads camera attached to oscilloscope while Birnbaum makes vernier adjustment on spotting telescope, bringing Venus into center of star tracker's field of view.

In one of the boxes in the truck's flat bed was the instrument assigned to perform the daytime tracking—the Ground Systems-developed electronic star tracker, proven in the lab, but making its maiden attempt under actual conditions.

A revised version of the model successfully employed in the Navy's 81,000-ft "Stratolab" balloon flight of two years ago, the new tracker was designed without moving parts in its sensing system. Borrowing the same optics system used by its predecessor, but with a redesigned electronic system, the revised model is smaller in size, offers greater reliability.

The first test for the new tracker would be a stern one. If all went well, it would



SUNNYVALE STAR TRACKER

"sense" or pick up the reflected Venusian light energy, transform it into electronic pulses and track the planet across the sky during the brightest hours of the day.

But long before the scientific safari had reached its destination, their best-laid plans had gone slightly astray. Several unforeseen delays pushed back the time schedule, so that at 3:30 a.m., the Sunnyvalers found themselves on an unfamiliar stretch of mountain road, in search of Butler Peak.

It wasn't to be. A missed turn in the early morning darkness led them away from their pre-selected site. After a series of twists and turns they found themselves at the mouth of a dry river bed. It wasn't Butler Peak, but it was flat and it was past 5:00, with little remaining time to visually sight in on Venus.

Less than an hour later, the star tracker was attached to its motor-driven



GOOD SHOT—Project manager Morris Birnbaum inspects negative showing pulse of Venus as received by the star tracker during July 7 field test.

equatorial mount and had begun to pick up the strong pulse of Venus. But this was anticipated. The real test would come later in the day—near noon-time—when the light intensity reached its zenith.

Breakfasting on dried fruit, cookies, and a tin of peanuts, Birnbaum, Salomon and Carpenter watched anxiously as the sun began its ascent into the cloudless sky. A camera, attached to one of the oscilloscopes, had already begun to make a pictorial record of the star tracker experiment.

Shortly after 10:00, Venus could no longer be seen by the naked eye and sky brightness reading had climbed from 120 to 320 foot candles. The star tracker was still on its target, producing strong readings on both oscilloscopes.

The light reading hit its peak—360 foot candles—just before noon, then began to decrease. Star tracker readings during the critical period remained good and strong—it had passed its initial field test with flying colors. Venus had been tracked positively and conclusively, with a signal strong enough to operate a servo system, had one been installed.

After gathering their gear, the weary trio drove back to the mountain village of Fawnskin, where they relaxed over a round of cold beers. The respite was as much out of necessity as a token of celebration. They had overlooked bringing a water supply during their sun-baked morning on the mountain top.

Company-funded during its two years of development, the tracker's successful field test now opens many new vistas of practical application. Among its potential functions: use on balloon- and rocket-borne astro-physical research; aircraft navigation; and space-vehicle guidance.

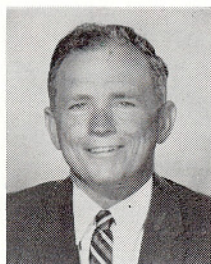
"It is entirely possible," Birnbaum said, "that our tracker could provide astronauts with a visual display of navigational stars in any sector of the sky for orientation."

NEW FACES

HAROLD M. ANDERSON, Staff Engineer, systems engineering, Sunnyvale's Ground Systems Dept. A BS-EE from Brooklyn's famed Polytechnic Institute, Anderson comes to us after 10 years with Hughes Aircraft. He reports to Director Jesse Rifkind.

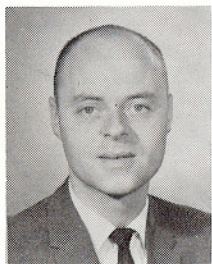


ANDERSON



MILLS

Senior Engineer **JAMES J. MILLS**, ASW Equipments Dept., Glendale. Mills is a BS-EE from Cornell Univ., took graduate work at the Univ. of Oklahoma. He previously was with Lockheed's Space and Missiles division and Philco Corp. He reports to Director D. K. Roof.



LAUE



CHESNEY

PETER D. LAUE, Industrial Engineer, Glendale. A '57 graduate in IE from UCLA, Laue spent four years with Firestone Tire and Rubber Co., before coming to Librascope. He reports to Supv. R. E. Awbrey.

PAUL A. CHESNEY, Accountant, Division Auditing. A graduate accountant from Gannon College, Erie, Pa., who also studied at Marquette Univ., Chesney is a four year veteran of the Marine Corps. He has been assigned to internal auditing.



WESTON



KIEFER

HERMAN WESTON, Military Sales Representative, Glendale. A BS-EE from UCLA, Weston formerly was with Servomechanisms, Hawthorne and was West-

ern Regional Representative for Fenske, Fedrick & Miller, engineering and manufacturing firm, before joining Librascope. He reports to Sales Manager D. E. Dufford.

EDWIN A. KIEFER, Industrial Engineer, Glendale systems and procedures, comes to us from Pacific Semiconductors. He studied economics and operations research at Columbia Univ., UCLA and LASC. He reports to Manager M. L. Foster.



RE



STONE

ROBERT K. RE, Associate Engineer, Digital Engineering, Glendale, is a 1961 BS-EE from Cal-Poly, San Luis Obispo. He reports to Director J. L. Deitz.

TED M. STONE, Associate Engineer-Mathematician, Glendale Engineering Advanced Projects, is a fourth-year physics-math student at San Fernando State College. He reports to Dr. A. L. Stanly, AP director.



McDERMOTT



FRIEDMAN

MARK A. McDERMOTT, Reliability component applications engineer. A graduate of San Diego St. College, BA-Physics, McDermott was formerly with Lytton Systems and Ramo Wooldridge, Canoga Park, as a component engineer. He reports to component applications supervisor L. G. Rado.

SEYMOUR L. FRIEDMAN, mathematician, Glendale Eng data processing equipment section. A biology-math graduate of James Millikin Univ., Decatur, Ill., Friedman spent six years with McDonnell Aircraft Corp., St. Louis, as data analysis supervisor. He reports to Director J. L. Dietz.

LAWRENCE D. KUGLER, assistant technical programmer, Glendale Advanced Projects, is a third-year mathematics major at Cal-Tech. He reports to Supvr Charles Gonja, is a summer vacation staffer.



SOMETHING EXTRA—Another service was recently initiated by the Employees' Credit Union, with the addition of building representatives to answer questions and furnish information regarding CU's operation. New reps and officers pictured above, include: (top row) A. L. Lee (A-05); Jeannette D. Calley (A-15); C. W. Plath, Jr. (A-21, -22); Patricia J. Hansen (A-26); and J. C. Davidson (D-12). Seated at table are CU officers Dorris M. Eberle, G. F. Yerkes and J. O. Pack. New reps not pictured, include: C. J. Baumgard (A-16); George Ounjian (A-17); E. D. Newman (A-01); Dean Crowell (A-01); J. E. Clark (A-05); H. H. Hill (A-14); Thelma L. Mays (B-08); J. A. Dean (B-09); M. A. Wilkens (B-25); L. K. Hoyt (B-30); and L. W. Szudajski (B-27).

EMPLOYEE BENEFITS

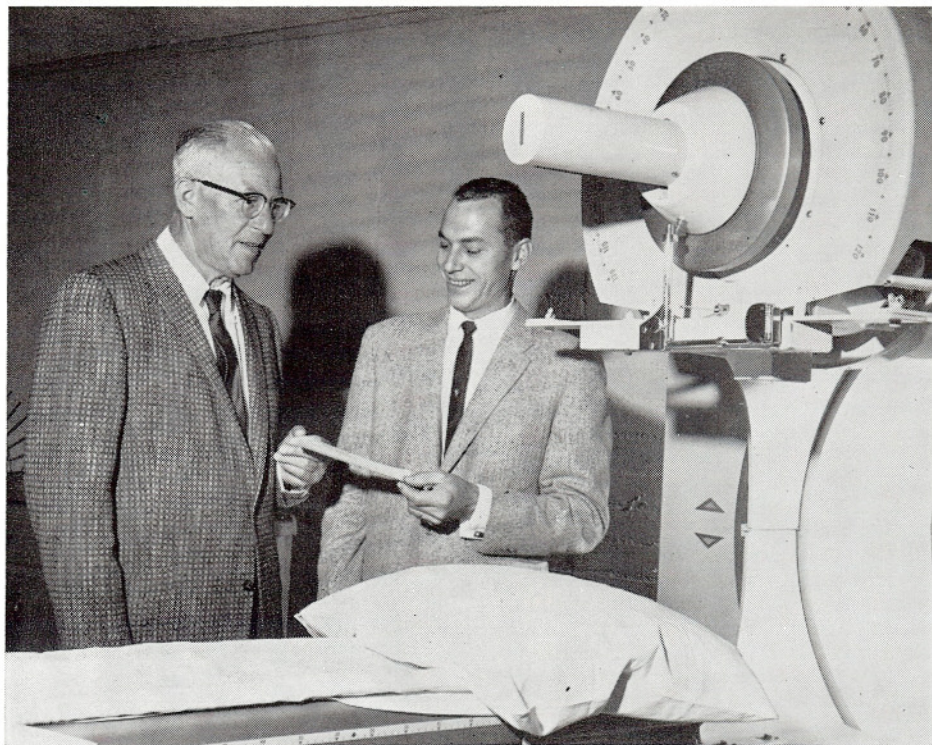
Quadruple Winners

The Employee Writing Incentive Program produced a quadruple winner in July, when the writing team of W. J. Wichman and M. M. Birnbaum, Sunnyvale Ground Systems Dept., scored with an article entitled "A Balloon-Borne Star Tracker for Astrophysical Research."

The article is to appear in the McGraw-Hill publication "Electronics," in early September and in a more popular version co-authored with R. L. Eklund of Public Relations, in the Fall issue of Librascope's Technical Review.

The pair receive one check on acceptance of their article by the EWI program committee, a second for publishing rights from Electronics, a third from the EWI committee because their work was accepted by a professional publication and a fourth for the Tech Review version.

Wichman is Director of the Electro-mechanical Equipment Section, and Birnbaum is Proj-Mgr of the Photogrammetric Equipment Group. The article is an account of the 1959 Navy balloon flight in which the atmosphere of the planet Venus was found to contain moisture, thus proving that water exists on the planet. The evidence was uncovered by a telescope guided by a Librascope-designed and built star-tracker.



A CHECK FROM AID—Richard E. Wilson (right), Glendale branch industrial artist and chairman of Librascope's Aid Club, presents a \$1564 check to William Burke, director of hospital affairs for the City of Hope. Presentation of the donation from Librascope employees took place at City of Hope's medical center in Duarte. Equipment at right is a Cesium "ring," a new instrument for radioactive treatment of cancer.

Planning for School

With the next school semester not too many weeks away, the time is right to begin scheduling your Fall school courses if you want them included under Librascope's educational refund plan, W. P. Strong, Division training director, told LIBRAZETTE.

"The procedure is the same as it has been in the past," Strong said. "Secure an application from the Training department, fill it out and submit it to your supervisor. Upon his approval, it is sent on to the education committee. It is then returned to the individual with approval or disapproval noted thereon."

Following completion of the course, a passing grade is submitted to Training, and costs of tuition will then be refunded.

Attesting to the growing popularity of the plan, refunds for the 1960-61 school year rose to nearly \$11,000 for 125 employees enrolled in 206 courses.

Budget Staff

The Division Budget Dept., under Director C. F. St. John, is rounding out its staff of planners and analysts to meet GPI corporate requirements in financial and budget planning. Newly added to the staff are:

Glenn E. King, BA-MBA, Univ. of Mich., formerly with Chrysler Corp., Detroit.

Joseph G. Cooper, BA-Lafayette Coll., MBA, Harvard Univ. Grad School of Business, formerly with Rohr Aircraft, Chula Vista.

Lyle V. Burden, BA-San Diego State, formerly of General Dynamics-Astronautics, San Diego.

Cody A. Evans, former summer employee, newly-graduated with a BS-IE degree from Cal-Poly, San Luis Obispo.

They join J. J. Rogers, N. L. Parlier and Dept-Sec'y Dorothy Newcomb.

Internal Transfers

J. F. Locklin, designer, Aerospace technical support, to designer, Glendale engineering.

Phillip DeGrazio, Aerospace production engineer, to Glendale production engineer.

H. K. Orner, Glendale prod-cont follow-up man, to engineering liaison assistant, Aerospace.

M. H. Smith, design draftsman, moves from Burbank to Aerospace branch.

L. D. Swain, Glendale engineering writer, to Sunnyvale electronic equipment, as eng. writer.

Sheldon Michelson, Glendale assembly, to senior electronic tech., Aerospace customer service.

Carl Lekven, staff engineer, Sunnyvale



KING



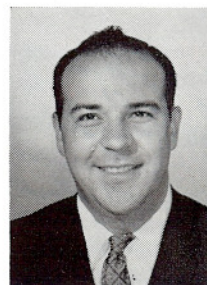
COOPER



BURDEN



EVANS



ROGERS



PARLIER

systems engineering, to staff engineer, Division technical planning.

Electronic technician Francis Eberwein, from Burbank to Glendale production test equipment.

Jack Randall, comp. final tester, from Burbank to Glendale production test equipment.

L. J. Plunkett, Sunnyvale materiel, to Glendale purchasing follow-up.

Engineer R. F. Finney, SUBROC, to Glendale P/E.

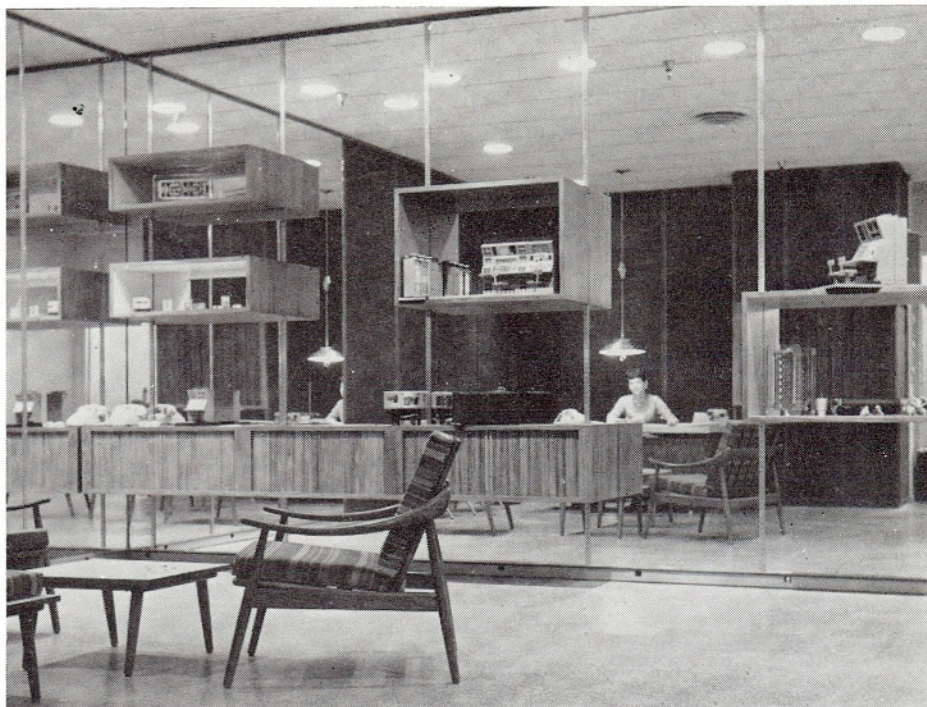
Staff Engineer John Steranka, from Aerospace engineering to Advanced Applications section, Division Technical Planning.

HONORS

I. H. OSBORN, Glendale Supervisor packaging engineering and BREO FREEMAN, JR., Burbank packaging engineer, were recently named to the board of directors of the So. Cal. chapter of Packaging and Handling Engineers for a two year period. Freeman was formerly executive vice-president for the local chapter, while Osborn served two years as secretary.

Honors in the Tele-Communications Association were accorded this month to L. G. CAHILL, Division telecommunications supervisor. In addition to his position on the board of directors, Cahill was named secretary and director of public relations for the international association.

L. G. RADO, Reliability supervisor, component applications, was recently elected to the post of treasurer of the Los Angeles chapter, Institute of Radio Engineers' professional group on Reliability and Quality Control. The group meets monthly at the IAS building in Los Angeles.



OUR NEW DISPLAY ROOM, in Bldg I-03, in direct view and mirrored reflection, is shown by Photographer J. A. Avera's news camera. The new room, designed by Advertising Dept's D. A. Johnson, houses samples of Librascope's many products, serves as hospitality center for Librascope visitors, too. That's Betty Robbie, Visitor Coordinator, you see in the huge mirrored wall.

Robert W. Meade

Robert W. Meade, former Supervisor in staff administration, Military sales, who joined Librascope a year ago, died at his home in Burbank, July 10. He had been ill for months with cancer.

Meade, who had just passed his 38th birthday, was an Air Force fighter pilot in World War II and in Korea. At the

time of his retirement early in 1960 he was a Major on the legislative liaison staff at AF hqs in Washington.

Memorial services held July 13 in Burbank, were attended by his many friends at Librascope. He was buried with military honors July 17 at the National Military Cemetery in Arlington, Va. He is survived by his widow, Mrs. Gloria Meade, and two children.

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

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