



LIBRAZETTE

AN EXCHANGE OF NEWS AND KNOWLEDGE

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AUGUST, 1964

Arthur Ostroff Heads CCD Eng

(BURBANK) Arthur Ostroff has been named Manager of Engineering of the Commercial Computer Division, by F. J. Alterman, Vice-Pres.

and General Manager of the division. Ostroff succeeds

R. L. McIntyre, now a senior staff engineer in SED Engineering.



OSTROFF

The new CCD engineering head has been involved in the design of military and commercial digital computers ever since graduating as a BSEE from the University of Pennsylvania in 1949.

Just prior to joining CCD Ostroff was a Senior Staff Engineer with Hughes Aircraft, working on the development on thin film memory elements. Previously he was with Philco Corp., and RCA as a project manager and was a project engineer with the Elecom Division of the Underwood Corp.

Ostroff is married and the father of three. He makes his home in Woodland Hills.

SED to Shift Rodier Drive Departments to Bldgs 1, 2 & 5

(GLENDALE) Surface Equipment Division buildings in the Rodier Drive area will be released to their owners shortly, in most cases before Jan. 1, 1965. Functions now housed there will be shifted to buildings in the Sonora street-Western avenue-Flower street complex.

Dr. Graff Is Speaker At IRIS Symposium

(GLENDALE) Dr. Herman Graff of the Research and System Center's applied research section, was one of the participants in the 11th Annual Infrared Information Symposium held June 17-19 at Stanford University.

Dr. Graff delivered a paper entitled "Status of High Bit Density Infrared Arrays Prepared by Non-Scribe Processes," of which Research Aide Gerry McTeague was co-author.

The paper described the results of classified work conducted here on sensing techniques under company sponsorship and continued under contract from the Air Force.

Announcement of the move was made by President R. W. Lee, who described the action as a "further step to reduce our costs of doing business and thus strengthen our ability to bid competitively for new business.

"It is a logical move, because it doesn't make sense to be paying rent for space you don't need. The nature of our business is undergoing tremendous change; large scale programs requiring large areas of engineering and production space are things of the past.

"Our business today and in the foreseeable future, is of the short-term variety, requiring intense effort and quick response to the customer's requirements. We will have ample space for such operations."

Save \$300,000

Release of the buildings will save Librascope over \$300,000 a year in rent and other occupancy costs.

Decision to release the buildings has set off a chain-reaction of step-by-step planing of departmental moves. This has been the responsibility of Ivan Franklin, Coordinator of Facility and Area Planning, and Pete Lauridsen, Supvr of Plant Engineering.

Working with Bill Girouard, Group Director of Industrial Engineering, the Franklin-Lauridsen task force has produced a full set of plans for every segment of the relocation effort and a detailed moving schedule.

First steps already have been taken on the first phase—moving Electronic Data Processing from Bldg 1 to Bldg 3. An area in 3 has been cleared for installation of the EDP equipment.



A RECENT VISITOR to Librascope was Etsuo Aoyama (L), General Manager of Mitsubishi Precision Co., Ltd., shown here with President R. W. Lee and Akira Takei, Los Angeles manager for the Japanese firm. Mitsubishi Precision is General Precision's Japanese licensee and Aoyama was here to be briefed on Librascope's products and marketing operations. (See Page 11 for story.)

[Details of the moves and the new locations of the departments involved, will be found on Page 9.]

New SED Engineer Is Rocket Buff

(GLENDALE) A lot of things have happened in a short space of time to Robert C. Tauscher, newest associate engineer with SED engineering and, at 24, quite likely the youngest.

On June 4, he completed classwork toward his MSME degree from UCLA.

On June 20, wife Judy (who goes back to UCLA in the Fall to complete her studies in microbiology), presented him

with Karen Ann, their daughter and first child.

On July 6 he got started in his profession, with assignment to the Electro-mechanical engineering section of SED.

On July 17, Taurus IV, an experimental rocket he helped design as a senior class project at UCLA, was successfully fired from the Naval Ordnance Test Station (NOTS) at China Lake.

Tauscher racked up a lot of floor mileage over Karen Ann and Taurus IV and he's voluble about both, but here he talks about the rocket:

Hybrid Engines

"Taurus was an effort to learn more about hybrid engines, which are thrust affairs using solid fuel propellants with liquid oxygen (LOX) as the activator. Not much is known about them; few have been designed, fewer built and very few fired.

"The Navy is interested in them and has given us backing from the start, with the full range facilities of NOTS available to us whenever we needed them."

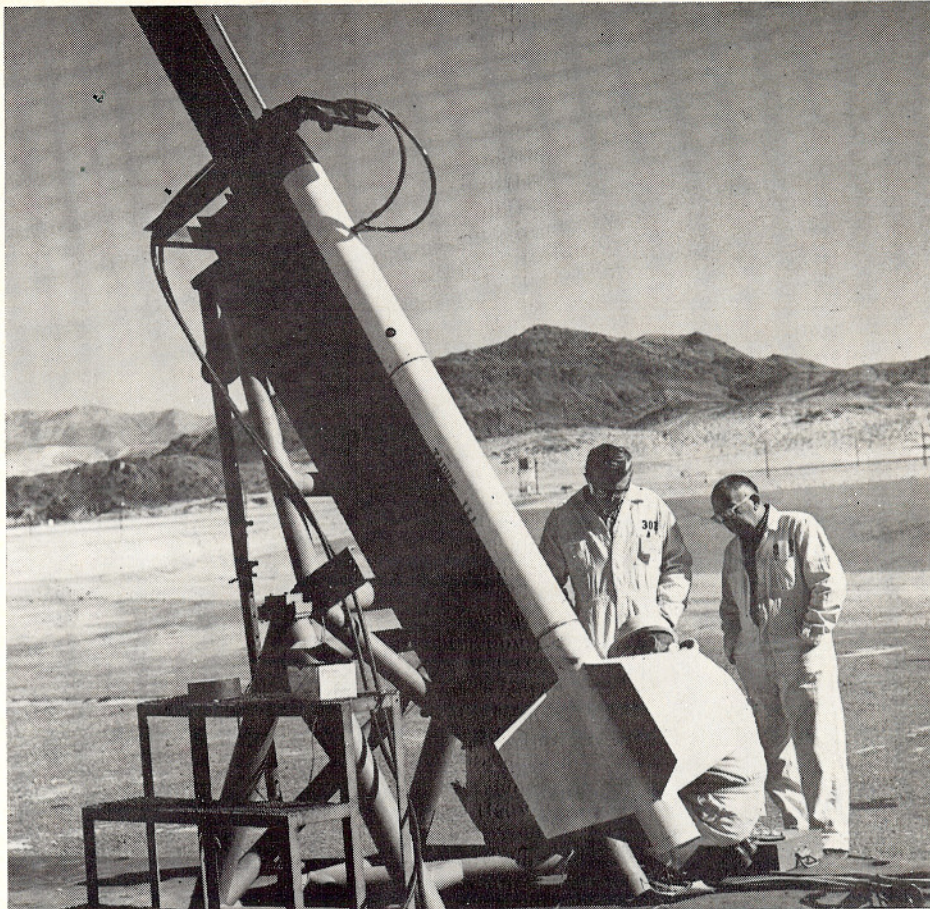
Originally there were eight seniors in his class at UCLA, plus Dr. Lawrence Harvill, their instructor, as "project engineers." The work force dwindled to Tauscher and Dr. Harvill, what with graduations and jobs taking their toll.

Taurus I Blew Up

Taurus had an exciting and sometimes disappointing history. Taurus I blew up during a static firing test; Taurus II was successful in its static test, but Taurus III blew up in the air after launching.

Tauscher, Harvill and the range crew, plus Navy observers, were the only people on hand at 4 o'clock in the afternoon, with the temperature standing at 110 degrees on the floor of the Mohave desert, when the firing button of Taurus IV was pressed.

"She took off perfectly and rose so fast that she was out of sight in 10 seconds," Tauscher relates. "That was



THIS ROCKET blew up in air after launching, by SED engineer Bob Tauscher and Dr. Lawrence Harvill of UCLA, but next one soared like a bird. (See accompanying story.)

around 20,000 feet and we estimate she hit 40,000 before the engines used up all the fuel.

"It was worth all the time and effort we put in during the past two years."

More hard work remains before the project can be brought to a successful close. Coming up are detailed examination of the rocket's remains to determine the effects of the combustive elements upon the engine and the rocket casing.

Involving much more work is the reduction of the telemetry data transmitted over the rocket's radio to NOTS data receiving stations on the ground. Copies of Tauscher's and Harvill's findings will be given to all interested experimenters.

For the record, Taurus was a remarkably economical project, probably the least costly ever carried out under Government auspices. All materials were contributed by Alcoa Corp, Thiokol Corp, the MMM Corp, and Stathan Electronics.

Design and fabrication—by Tauscher and Harvill—also were free.

Taurus IV was 12 feet long, six inches in diameter, weighed 150 pounds fully loaded and developed a thrust of 1,000 pounds.

W. A. Newman Joins SED Reliability

(GLENDALE) William A. Newman, previously Supvr of Production Engineering for the Vernitron Corp., Torrance, has joined the Components Engineering section of SED Reliability. He reports to Supvr Bob Hoffman.

Newman earned his BS degree from Xavier University, New Orleans. He also took postgraduate work at Texas Western College.

Prior to his work with electromechanical rotating components at Vernitron, Newman was an R&D technician with Voltron Products, Pasadena. While in the Army, '56-'59, he taught fire control theory and practice to Nike antiaircraft crews.

Newman is married, the father of four and makes his home in Los Angeles.



NEWMAN



Scott Dwire, Director, SED Operations Planning, Charley Cole, Manager, Production Control and Pete Laue, Senior Systems Analyst, confer over plans for system changes in Production Control.

R. D. Bartlome Names Mark 48 Staffers

(GLENDALE) First phases of our work on the Mk 48 (previously referred to as the EX-10) program for the Navy Bureau of Weapons are under way—and on schedule, according to Roy D. Bartlome, Mk 48 program manager.

Initial staffing of the program, operated as a separate department of Surface Equipment Division, is virtually complete. With few exceptions, personnel have been drawn from functional units of SED on a "duration of assignment" basis.

The program organization is divided into three groups: Fire Control Engineering, Craig Hammill, Manager; Production Engineering and Manufacturing, Frank Copple, Manager; Logistics and Integrated Maintenance Management, Jess Pack, Manager.

Responsibility for Product Assurance is in the hands of Walt Picker, Director of Product Assurance for SED.

Heading engineering functions reporting to Hammill are Dick Schleicher, Roy "Skip" Case, Ted Kolb, Dale Hankins and Ernie Pool.

The Logistics and IMM group subsections are headed by Bill Tilden, Bob Marsh, Al Crisman and Dave Gardner.

Production Engineering and Manufacturing Management staff appointments will include, at a later date, Emory FeKoty, Les Hey and Phil De Ezazio.

In addition to those mentioned, assignments to the program staff now include:

Jim Cotter, Jack Cowan, John Hill, Chet Koski, Anatoly Butyrin, Bernie Kopp, Paul Prager, Betty LaCavera, Roy Kakuda, Roger Endara, Herb Jacks, Bruce Perkin, Vladas Gilyls, Carlan Westre, Suikei Mataga, Malcolm Scharer, T. A. Kokinda, Alma Davies, J. B. Bromley, Stan Ericsson and Gene Swygard.

Lee Simon is Contracts Administrator and the Administrative Staff is headed by Ken Burton.

Production Control Overhauls System: Cuts Production Time and Saves Money

[This article is one of a series about Librascope departments explaining their functions and interrelations with other departments.]

(GLENDALE) The heart of any manufacturing operation is Production Control.

It is a complex operation in any company and it is no less so at Librascope.

It is on the receiving end of many brickbats; the bouquets tossed its way are few and far between. Very likely it merits more compliments than it can ever hope to receive.

Production Control stands at the crossroads where engineering, shop production, assembly, purchasing, marketing, quality control, finance and sundry other functions have their only common meeting ground. It hears, you might say, from all these, and tries to listen.

Moving Toward Goal

It's a tall order to satisfy everybody and perfection, says C. R. "Charley" Cole, who took over the PC Manager's job last December, hasn't yet been achieved by anybody. But Production Control is moving toward its goal of eliminating unnecessary delay in getting the products out the door on time—and within budget.

The pace toward that goal is faster than ever before, as the result of a top-to-bottom reorganization of Production Control, Material Control and Inventory Control. Part of the reorganization has

substituted Electronic Data Processing, wherever possible, for many repetitive manual operations.

This "system" approach to handling what was previously a paper whirlwind of huge proportions, has simplified the whole procedure of turning blueprints into hardware.

Principal product of the system approach is the SOS — Shop Order Status — report that is delivered daily to every load center in Production. This report lists the status of every project in the house, from its first writing to scheduled completion date.

"X" Means Priority

Priority items are marked with an "X" and receive first attention in each load center. Better scheduling and improved on-time delivery performance have resulted from the new system, and will improve still more, says Cole.

Presently in work is an EDP system for positive and timely control of inventory. PC already has reduced delays due to parts shortages by 20%, expects that the EDP system will further reduce such delays.

The reorganization and the EDP system approach is the product of many helping hands, says Cole. The system design is the work of Senior Systems Analyst Pete Laue, with the cooperation of Bill Singleton, PC scheduling and record control supervisor, Carl Culver, head of PC's expediting section and the staff of Group EDP Manager Bob Anderson.

The inventory control system now being designed is being developed by Ed Alderman and Dick Awbrey of SED's Management Systems section, and Walt Kenny and Ken MacNeil of Group EDP.

Reorganization and extensive use of EDP in Production Control has not only improved operating efficiency, but also has saved money. Manager C. R. Cole predicts a 1964 saving of very close to \$150,000 over previous years.

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R & S Center Host to General Precision Marketing Members

(GLENDALE) Top members of the General Precision, Inc., planning and marketing organization and the managers of GPI field offices, were here July 28, 29, 30, to attend a special Librascope seminar.

The meeting was called to acquaint them with the plans and capabilities of the Librascope Research and Systems Center and SED engineering and marketing plans. It was coordinated by Dr. John M. Salzer, R&SC director.

The General Precision, Inc., visitors were headed by Robert C. Lynch, Director of Planning, who also took part in the seminar. Others from the Tarrytown headquarters were Jack Barron and Norman Pomerance of Lynch's staff.

The GPI field offices were represented by Frank Zoda, Boston; Maury Johns, Dayton; William Hill, Houston; James Hill, Los Angeles and Robert Tom, Washington.

After welcoming remarks by Pres R. W. Lee and Vice-Pres F. C. McAndrews, the first day's session was devoted to presentations by Dr. John M. Salzer, Dr. R. H. Fuller, J. E. Barry and Stephen Molivadas of the R&SC staff, Robert McIntyre, of SED Engineering, and R. R.



DR. SALZER . . . R&SC capabilities and plans.

Williamson, Technical Assistant to McAndrews.

Subject matter included developments in plated wire memories, associative memory techniques and applications, computer organization and logic, image processing and speech compression.

On Tuesday Molivadas and Dr. Herman Graff gave one presentation on infra-red techniques and devices, another on "Libraccoat," an electroluminescent storage and display panel developed by Librascope; H. J. Hamilton, Dr. M. V. Cross



GENERAL PRECISION, INC., and Librascope marketing managers found humor as well as scientific information in sessions of Research and Systems Center seminar here last month. Group was here July 28, 29 and 30.

and Dr. E. R. Lewis discussed Librascope's neural analog studies.

Also on Tuesday, Cross and Barry reported on Librascope's systems capabilities and interests; Ralph Bonkowski reported on his work on optical augmentation of tracking antennas; Ralph Singman, SED Information Systems, discussed medium-sized data processors. The session ended with a presentation by Norman L. Marti, R&SC marketing manager, of research and development market potentials and the current R&SC marketing effort.

Wednesday's morning session was given over to SED plans and marketing. Maury Center, Vice-Pres and Gen-Mgr, SED, outlined the division's organization



DR. FULLER . . . plated wire memories.

and plans; R. O. Vaughan, Director of Defense Marketing, reported on SED's booking forecasts and business prospects.

Reports on specialized marketing operations were given by W. E. Niemoond, Aaron Mendoza, G. A. Thorne, C. C. Buterbaugh and W. E. Brown, of Defense Marketing.

Wednesday's closing session was devoted to reports from the General Precision, Inc., field office managers and a summary by GPI Planning Director R. C. Lynch.

Bechard Heads New Engineering Group

(GLENDALE) Henry L. Bechard has been named Manager of the newly-established Systems Engineering group of SED Engineering, according to J. L. Deitz, SED Chief Engineer.



BECHARD

Bechard comes to Librascope from the Marquardt Corp., Pomona, where he was Manager of Research and Development. He is a graduate of Tufts University, where he graduated with a BS/Math-Physics degrees in 1950, magna cum laude in mathematics, cum laude in physics.

Following graduation, Bechard joined the scientific staff of the Polaroid Corp, where he worked on the development of semiconductors. Later he joined the U.S. Naval Electronics Laboratory at San Diego.

Bechard was manager of the Telemetry Laboratory of the Astronautics Division of Convair (now General Dynamics), then Director of Engineering for the Systems Division of Daystrom, Inc. Subsequently he was Products Manager and Sales Manager of TRW, Inc., now the Bunker-Ramo Corp, and Vice President and General Manager of Information Systems, Inc., now the SCAM Corp.

Married and the father of two, Bechard makes his home in Claremont. He is a member of Phi Beta Kappa, Sigma Chi, Sigma Pi Sigma and the Instrument Society of America.



PLANS FOR the annual Libravet dinner are being made by this group of veteran employees, shown here with President R. W. Lee. Vince Nahrstedt, chairman of the group, sits at head of table. Reading clockwise are, Earl Wolfe, Keith Kinnaird, Walt Newcomer, John Fatz, At Pederson (advisor), Nahrstedt, Lee, Pete Maimone, Lee Simon and Mildred Huggins. Not present, Joe Mesch, Marsh Cowan & Moe Lehman.

Saturday, October 17 Libravet Party Date

(GLENDALE) Long-service employees of the Librascope organization will be honored at the annual Libravet party, to be held Saturday evening, Oct. 17.

Employees who will attain their 10th year of service this year and all other employees with 15 or more years of service will be on the guest list. Service pins and certificates will be presented to all who will be reaching their 10, 15, 20 and 25 year milestones in 1964.

Special guests for the occasion will be the growing list of retired employees.

Plans for the occasion are being made by a committee of employees headed by Vince Nahrstedt. Pike's Verdugo Oaks has again been chosen as the location for the event.

Serving with Nahrstedt on the committee are:

Joe Mesch, Walt Newcomer, Marsh Cowan, Lee Simon, Keith Kinnaird, John Fatz, Mildred Huggins, Elmer Lehman, Earl Wolfe and Pete Maimone.

Precisioneer Nine Wins Baseball Flag

(GLENDALE) Librascope's Precisioneers captured the "A" Minor League flag in Burbank Park and Recreation Dept. softball play, with a 4-2 victory over Disney Studios Aug. 3.

Pitcher Alan Mitchell, in scoring the Precisioneers' 10th win against four defeats, allowed Disney only four hits, while striking out ten. Leftfielder Bob Perry was the big gun at the plate, driving in three runs with a homer in the first inning. Later he singled and scored the fourth run.

Ranger 7 and SED

Librascope's SED Reliability Laboratory staff shared the excitement — and satisfaction — experienced by the Jet Propulsion Lab people last month, when Ranger 7 made its successful photo-taking flight to the Moon. The reason: many components used in Ranger 7 received their qualification and evaluation tests in our Reliability Lab.

Michael Sherman Joins R & S Center

(GLENDALE) Appointment of Michael Sherman to the staff of the Information Technology Dept. of Librascope's Research and Systems Center, is announced by Dr. R. H. Fuller, department director.

Sherman was in charge of digital circuit design for the Westwood Division of the Houston Fearless Corp. He has been assigned to design experimental circuitry in a new memory development project.

A BSEE graduate of the University of Southern California, Sherman also studied at the University of Minnesota and currently is working toward his MS degree at UCLA. He is a member of IEEE and was a member of Tau Beta Pi and Eta Kappa Nu, honor societies at USC.

Sherman is married, the father of two and makes his home in Granada Hills.



SHERMAN

473L Open House Draws 300 Guests

(GLENDALE) It's not often that Librascope can show its people what it is they have been building, because of the classified nature of the work we do.

But, on Saturday, July 11, George S. L. Kranz, 473L program manager, threw open the doors of Bldg 11 in an "Open House" to show the organization the huge AN/FYQ-11 data computer set we have built for the Air Force Command and Control Center in the Pentagon.

More than 300 employees and members of their families responded to the invitation. They saw Wes Stupar, Manager of Engineering for the 473L program, put the big computer through its paces, and it was a versatile performer.

Programmed to respond to many questions about the Air Force, AN/FYQ-11 responded in .035 seconds to such queries as:

"How many airfields are there in the U.S. at such-and-such altitude, with runways capable of handling jet transports?"

AN/FYQ-11 turned out to be a musician, too. On command it simulated a caliope and played the Star Spangled Banner, Que Sera and the Beer Barrel Polka. (Note to computer and audio aficionados: this was accomplished by programming a flip-flop to produce the desired single notes, which then were amplified and put through a small loud speaker.)

On hand as hosts were Kranz, Ron Head, Bob Perry, George Nash, Nancy Laughlin and Thelma Matthews of the 473L management staff, Lee Farmelo of the Air Force 473L SPO and Jerry Juni, resident Air Force inspector.

(See photos on pages 6 & 7)

Mark 48 Program Adds C. J. Westre

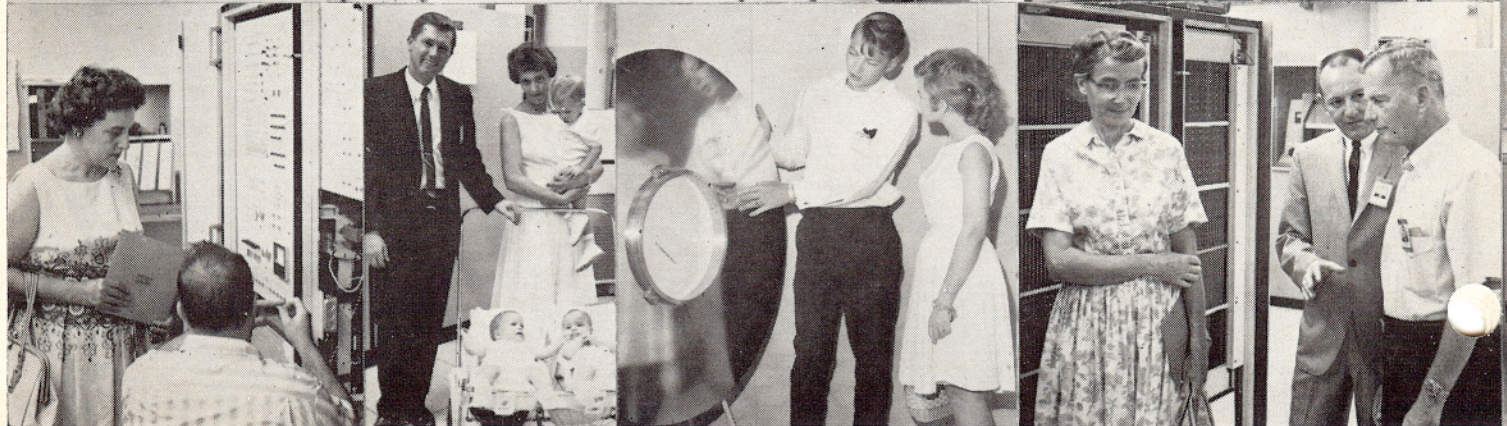
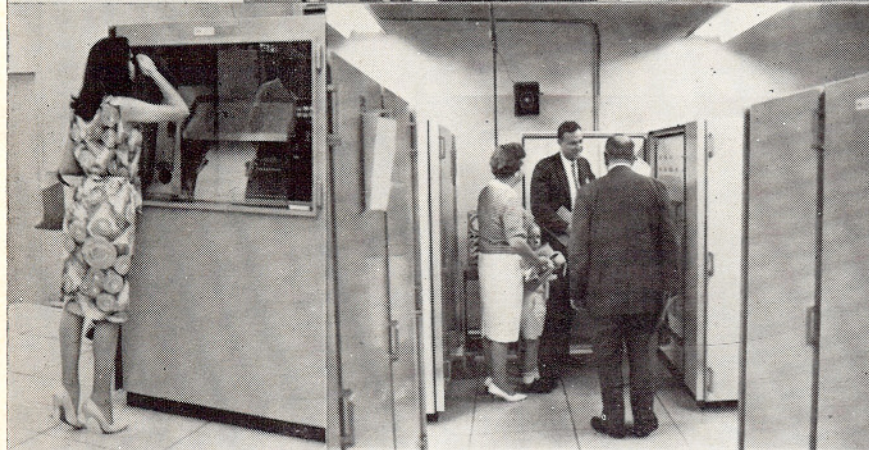
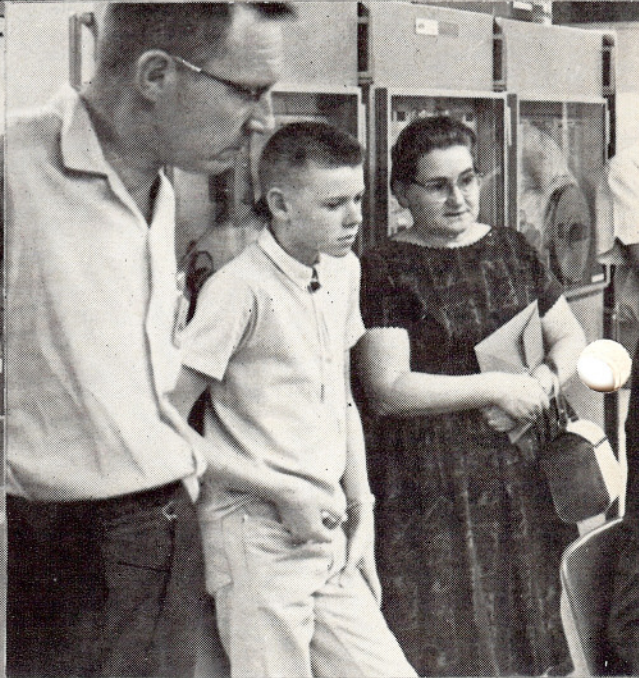
(GLENDALE) Carlan J. Westre has joined SED Engineering as an Installation Engineer and has been assigned to gram by Supvr C. J. the Mark 48 pro-Cardea.

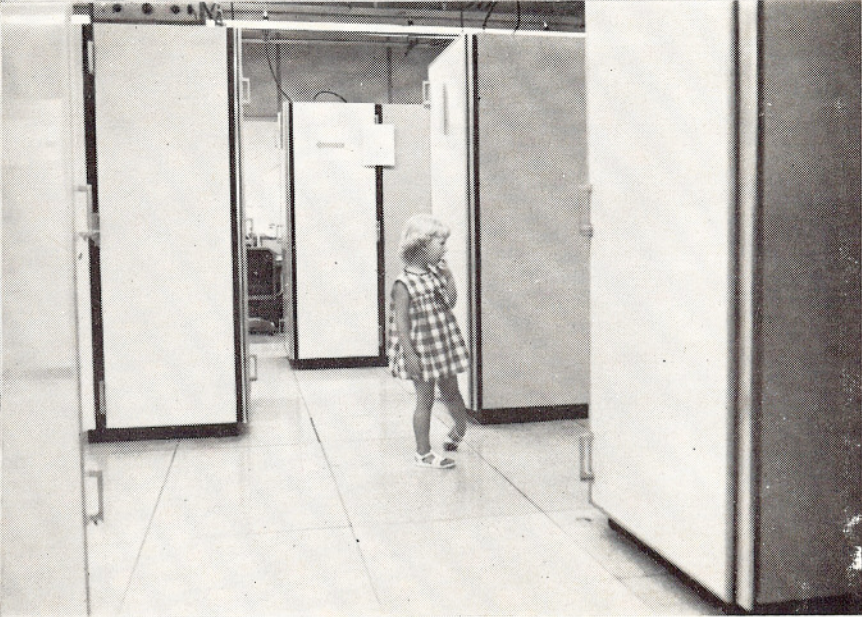
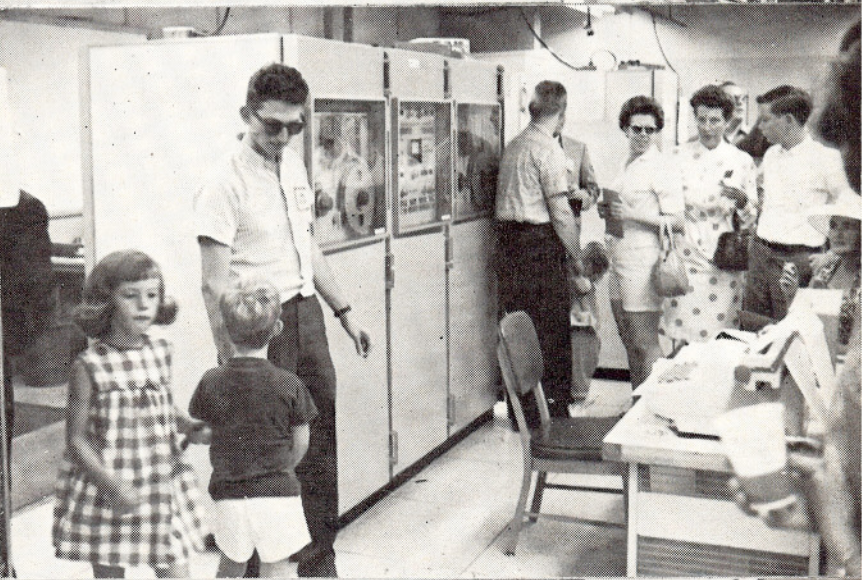
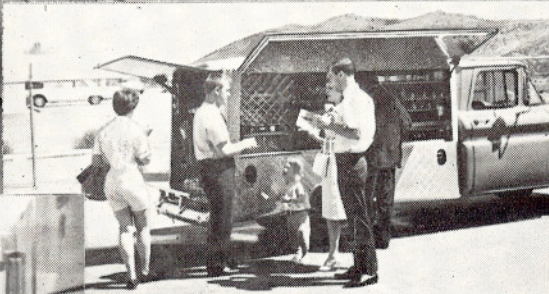
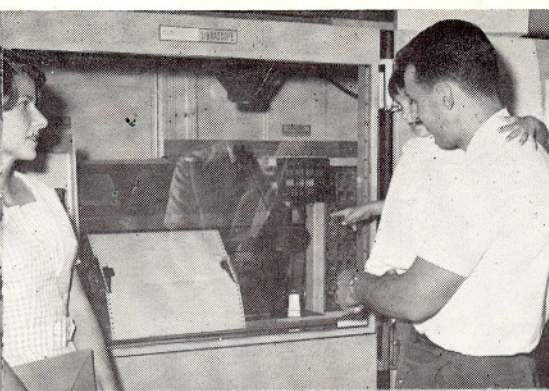
Prior to joining Librascope, Westre was a member of the installation engineering staff of Sperry Gyroscope, at Great Neck, N.Y., working on Navy fire control systems. He is a BS-Math and Physics graduate of Augustana College, Sioux Falls, S.D., plans to work for his Master's degree at UCLA.

Married and the father of three, he now makes his home in Van Nuys



WESTRE







HAVE YOU signed up yet for Fall classes in after-hours education offered by Los Angeles area schools? Wayne Strong, SED training director, points to bulletin board display of catalogs and brochures, as a reminder that now is the time — to make certain of being admitted to preferred courses.

Training Director Urges Registration For Schools Now

(GLENDALE) Now is the time, says Wayne P. Strong, SED's training director, for all employees to be planning their education programs for the Fall semester.

"More than 5,000 different evening classes will be offered in universities, junior colleges and adult high school programs in the Los Angeles area," Strong announced.

"These classes may lead to A.A. certificates from junior colleges, degrees from the universities and four year colleges, or professional certificates."

Some courses are tuition-free, others have charges ranging from \$2.50 per course to \$120.00. Many qualify under Librascope's Educational Assistance Program. Deadline for approval under LEAP is Sept. 30.

Proper planning is the key to successful after-hours education, says Strong. He urges employees to consult educational counsellors at the schools, their supervisors, or the Training Section. School catalogs are available for study in his office in Bldg. I-03.

HH UP THE LADDER

Charles F. Breslin, from Group Leader, SED drafting, to Designer, Electromechanical Engineering section.

Vladas Gilyls, from Design Draftsman, SED Electromechanical Engineering section, to Designer, Mk 48 program.

John Guarino, from Film Technician, to Analyst, Material Review Board, SED Operations. He joined the company June 27, 1961, as a tool calibrator.

Set Sept 12 For Golf Tourney

(GLENDALE) Sept 12 has been chosen as the date for the Precisioners Golf Club annual tournament and the Ojai Inn as the scene, according to Bill Kerr, club president.

A two-day program of fun and frolic (plus the serious business of golf) has been planned to include family groups, as well as the golfers. Swimming, dancing, horseback riding are on the agenda. A children's playground—and baby sitters—are available.

The tournament proper will be held on Saturday; the Sunday recreation is left open to individual choice.

Deadline for reservations to play and to stay at the Inn, or the Ojai Motel, is Aug 31. Reservations may be made with Kerr at x2205, or with Bob Megee, tournament chairman, x2261, Andy Lee, x1059, Jim Conway, x1171, Paul Prager, x1850, Jim Rushing, x2224, Chuck Kelley, x2228 or Gene Swygard, x1953.

CALL FOR PAPERS

The following meetings will take place in the near future. Members of the Librascope staff are urged to participate in the programs. In addition authors will be eligible for cash awards under the company's Employee Writing Incentive Program. (See Sections 5-900 and 5-950 of Librascope's Supervisors Manual for details.) For assistance and details about programs, please call Ken Slee Extension 1444. For listing of meetings, please call Nate Sands on Extension 1941. IEEE Local Symposium on MAN-MACHINE INTERFACE, Sept. 22, Union Oil Auditorium, Los Angeles.

SEVENTH GASEOUS ELECTRONICS CONFERENCE, Oct. 14-16, Atlantic City, N.J. Sponsored by U.S. Army Electronics and Research Labs.

Topics: Basic atomic processes and phenomena associated with the physics of ionized gases. Abstracts due not later than 23 Aug.

THE COMBUSTION INSTITUTE, FALL MEETING, WESTERN STATES SECTION, Oct. 26-27, University of Utah, Salt Lake City.

Topics: Thermochemistry, metal combustion, solid propellant ignition, explosion hazards, aspects of fuel cell research.

IFIP CONGRESS 65, May 24-25, New York City. Sponsor: Int'l Fed'n for Information Processing.

Topics: All subject areas in information theory, systems and programming; self-organizing systems and automata; languages, etc. 1,000 word summaries due Sept. 1, 1964.

ELECTRICAL INSULATION CONFERENCE, Sept. 13-16, 1965, New York City. Sponsors: IEEE and NEMA.

Topics: Materials science and applications; electrical and electronic transmission and distribution; rotating machinery. Brief summaries due before Sept. 1, 1964.

INT'L FEDERATION FOR DOCUMENTATION (IFID), 31st meeting (first in USA), Oct. 10-16, Washington, D.C. Sponsors: Nat'l Academy of Sciences, IFID.

Topics: Education and training of documentalists, organization of information for documentation, systems design, principles of documentation, information needs of science and technology. Details will be issued later.

JOURNAL OF MISSILE DEFENSE RESEARCH (published for ARPA by the Institute for Defense Analysis), is interested in receiving papers or reports of all competent classified research results (at the levels of Secret, Secret-Restricted Data and Confidential only) pertinent to the technological field of offensive and defensive missile warfare. Publication of a manuscript must be approved and certified by a responsible officer of the agency sponsoring the pertinent research, if the manuscript is based on such research.

UCLA Certificate to Lyle Crawford

(GLENDALE) Lyle Crawford, Supervisor of SED's Customer Training section, is the first Librascope employee to



CRAWFORD

earn a certificate in UCLA's Business Management Program for Technical Personnel.

Crawford enrolled in the UCLA program in the Fall of 1962, under the Librascope Educational Assistance Program, which pays full tuition costs after successful completion of

a course.

The UCLA program was designed to provide those in technical positions with the same preparation for managerial functions that are offered in business or industrial management degree programs.

Crawford, who joined Librascope as a junior engineer eight years ago, holds a degree in general engineering from UCLA, awarded in 1956.

Girouard Heads AIIE

William F. Girouard, Librascope Director of Industrial Engineering, is the new President of the Los Angeles Chapter, American Institute of Industrial Engineers. The L.A. unit, with 494 members, is the largest chapter in the AIIE.



FOREMAN Bob Peterson (L), bids farewell to Walter Lorenz, on final assembler's last day with Librascope before retirement.

Lorenz Hits 70; Calls It a Day

(GLENDALE) Walter Lorenz, who joined the company 12 years ago as an experimental machinist, retired at the age of 70 July 31, under the Librascope Hourly Employees Retirement Income Plan.

Mr. Lorenz, born in Germany, came to the U.S. as a youngster. For many years, prior to his Librascope career, he was an instrument and watchmaker with such firms as ARMA and Norden Laboratories in the East.

At Librascope, where he was a well-known figure in the Production area, Mr. Lorenz, was a valued assembler of complex mechanical and optical mechanisms. At retirement he was a member of the Final Assembly section in Bldg 17.

Appoint J. A. Veccia To Washington Office

(GLENDALE) Here for a period of orientation last month was James Veccia, newly-appointed member of the SED marketing staff in the Washington office.



VECCIA

A graduate electrical engineer (University of Okla., 1958) Veccia previously was with North American's Aviation's Washington marketing office. He served five years in the Navy as an engineering officer and holds the rank of Lieutenant in the Naval Reserve. Prior to his active duty with the Navy, he was an engineer with the Boeing Company.

Veccia also holds the MBA degree from George Washington University.

Here's List In Rodier Drive Move

Following are the departments to be moved in the general shift resulting from release of the Rodier Drive buildings:

EDP from Bldg 1 to Bldg 3.

SED Operations — Operations Manager, and his staff, the Production Superintendent, Production Planning, Manufacturing Estimating, Manufacturing Customer Service, Production Control, Property Control, Plant Engineering, Facility and Area Planning, Methods Planning and Purchasing — to Bldg 17.

Receiving and Receiving Inspection from Bldg 2 to Bldg 17.

SED Engineering to the front section of Bldg 1 and Bldg 2.

All reproduction facilities in Bldgs 15, 16 and 7, inclusive of the Photo Lab, will move to the rear section of Bldg 2.

Logistics — Field Service, Installation Engineering, Customer Training, Customer Repair Service, Spares Provisioning, Art and Production, Writing and Editing — will shift from Bldgs 7 and 5 to Bldg 2.

Reliability, from Bldgs 7 and 5 to Bldg 1.

Plating and Processing from Bldg 18 to Bldg 1. The Ex-10 program staff from Bldg 12 to Bldg 5.

The AN-FYQ-11 (473L) engineering and test operation will move from Bldg 11 to Bldg 12; at a later date it will shift from 12 to Bldg. 1.

Maryellen Bullock Joins Library Staff

(GLENDALE) SED Librarian Nate Sands isn't inviting extra work, but he's proud that in the person of Maryellen Bullock, new technical librarian on his staff, he has a one-woman translating department.

Miss Bullock is fluent in technical German, French and Russian and has a wide acquaintance with their technical literature, as the result of education and 12 years of experience with NASA and the U.S. Geological Survey.



BULLOCK

At the University of California-Berkeley, Miss Bullock majored in economics, minored in languages. She also won her Master's in Library Science at Berkeley.

Miss Bullock comes to Librascope from NASA's Ames Research Center at Moffett Field, Calif. Previously she was with Air Force and Hughes Aircraft Company technical libraries.

TIMA Names Kinnaird

Keith Kinnaird, Art Director, SED Publications section, is a newly-named member of the Board of Directors of Technical Illustrators Management Ass'n (TIMA).

Stanford Publishes '62 Ojai Symposium

(GLENDALE) Members of the Librascope Research and Systems Center are justly proud these days of a new book, just published by the Stanford University Press.

"Neural Theory and Modeling" deals with what researchers have so far learned about the function of animal nervous systems as processors of information. It is the belief of many people in computer design and development that clues to the eventual creation of the highest form of data processing systems will be found in neural studies.

The 22 papers in the book were delivered at the 1962 Ojai Symposium, jointly sponsored by General Precision, Inc., and the Air Force Office of Scientific Research.

The Symposium was organized and conducted by the staff of R&SC's Advanced Research Section, headed by Hal Hamilton, with the aid of Dr. Harvey Savely of the Air Force OSR.

Contributors to the book, a handsomely-bound affair of 427 pages, come from all over the United States and Europe. It was edited by Dick Reiss, Associate Director of our advanced research section, now on leave. Hamilton was one of the six associate editors.

Dr. Ted Lewis, of the advanced research staff, explains his work with an electronic model of a neuron of his design. Hamilton contributed a paper on "Use of Gas-Ion Processes in Modeling Excitable Membrane." Reiss, in addition to over all editorship and the writing of the preface and introduction, wrote the paper entitled "A Theory of Resonant Networks."

Offer NC Machine Maintenance Course

(GLENDALE) Courses in the maintenance, operation and installation of control systems used on numerically controlled production machines, will be offered this Fall in the Adult Education production program of the Los Angeles Board of Education. Those interested should call E. M. Thomsen of the Board's apprentice education office, 1205 West Pico Blvd, RIchmond 7-9605.

Kato to Reliability

(GLENDALE) Carl H. Kato is the newest addition to the staff of Supvr R. J. Hoffman's Components Engineering section of SED Reliability.

Kato, a 1960 BSEE graduate of UCLA, comes to Librascope from Electro-Optical Systems, Pasadena. Previously he was with Aeronutronics and Hoffman Electronics.

The Dick Reiss Story: New "Yank at Oxford"

Richard F. Reiss, assistant director, advanced research, of Librascope's Research and Systems Center, has taken leave of his post to do graduate study at England's Oxford University.

Dick, who is one of the best-qualified Americans in the highly abstruse field of classic association psychology, will be combining several objectives. He will continue his Librascope and Air Force-sponsored research in artificial intelligence and the work also will provide the substance for a proposed thesis to earn him his Ph.D. from the British university.

Dick foresees upwards of three year's work as a prelude to the writing of the thesis, which also will embody the results of previous research at Librascope and at the University of Southern California.

Reiss earned his BA/Psych degree magna cum laude and Phi Beta Kappa, at USC, also spent two years in post-graduate study there. Before joining Librascope he was a member of the research staffs of Electrodata and the RAND Corp.

To some degree, Dick's 6,000 mile journey to England is a pilgrimage, because classic association psychology (which this short piece won't attempt to

define), was developed there during the 19th century.

It is Reiss' belief, shared by Librascope and the Air Force, that a deep penetration of the human intellectual processes, plus equally penetrating study of the electro-mechanical communication process within the animal structure, will produce the knowledge from which man can proceed to build the computers, data processors and control devices of the future.

Today's computers, however wonderful they may seem to be, are, compared to what they need to be, somewhat akin to an alarm clock versus a chronometer, in Dick's opinion.

As a researcher at Oxford, Reiss will have access to the indispensable tool of the modern researcher, a computer of tremendous capacity and speed. The Ferranti Atlas-2, a giant scientific computer at the British government's Harwell Atomic Establishment, is made available to researchers at British universities.



REISS

Much of Reiss' work involves simulation by computer of psychological problems.

Dick's work will be conducted at Oxford's Institute of Experimental Psychology and he will be attached to Linacre House, the graduate student administrative center. Title of his doctoral thesis is "Formalization and Extension of Classic Association Theory," which also happens to be the title of the Air Force contract with Librascope.

First reports from Dick are that he is settled in quarters large enough to accommodate his "portable" library of some 300 technical volumes (the other 4,000 enjoy a temporary home with friends back here), but that he hasn't been able to locate a reliable source of Coca Cola. Coke and unfiltered cigarettes are the materials with which the Reiss brain factory are fueled.

As a psychologist, Dick has conducted a running experiment during his six years with Librascope to convince people that he is a simple, fun-loving country boy (he's a native of Anderson, Ind., pop. 49,061) with hayseed instead of dandruff in his hair. To our British cousins this aside: Beware. That bucolic facade conceals one of the keenest and most complex minds ever to cross any academic threshold anywhere.

Kearfott Engineer Shifts to R&SC

(GLENDALE) Engineer Joseph M. Camarata, formerly a member of the design group in Kearfott Division's advanced technology department in San Marcos, is now a staff member of Librascope's Research and Systems Center.



CAMARATA

Camarata is a member of the development team of Dr. R. H. Fuller, head of R&SC's information technology group, assigned to a company-sponsored memory project.

Camarata earned his BSEE degree from Valparaiso University, also holds the MSEE degree from Notre Dame University. He joined the then San Marcos branch of Librascope in June, 1962, after an engineering assignment with the U.S. Naval Avionics Facility at Indianapolis, Ind.

"Happy is he who has been able to learn the causes of things."—Virgil

LIBRAZETTE MOVES

LIBRAZETTE's office has been relocated in Bldg 3 and is now in the Personnel area. The telephone number remains the same — 1252.

Ex-Subroc Engineer Joins MK 48 Project

(GLENDALE) Bernard S. Kopp, who cut his professional eye teeth with Librascope as an associate engineer on the SUBROC project, has rejoined the company as a Senior Engineer.

Kopp has been assigned to the Mark 48 program as a member of the electro-mechanical engineering team.

An ex-Marine, Kopp first joined Librascope in Feb., 1960, after graduating from Los Angeles State College as a mechanical engineer. He is married and makes his home in Alhambra.



KOPP

Librascope Offers Course In Politics

(GLENDALE) A score of Librascope employees, interested in learning how they may play an effective personal role in politics, are investing time and money in an after-hours "Action Course in Practical Politics," which begins Aug. 3.

Instructors in the course are Wayne P. Strong, group training director, and Paul J. Kennedy, of Group systems and procedures.

The course uses material developed by the U.S. Chamber of Commerce. Non-partisan, it covers such subject areas as political party organization and operation, campaigns, meetings, the individual's role in politics, and political clubs.

The course extends over a nine-weeks period and is given in the Training Conference Room on Mondays from 4:45 PM to 6:30 PM. There is no charge for the course, but the course material carries a price tag of \$2.50.

Those enrolled are:

Ed Alderman, Dick Awbrey, Dorothy Brand, Larry Cahill, Carl Cisco, Lyle Crawford, Jerry Deitz, Warren Emery, Vaughn Gillette, Les Hey, Mildred Huggins, Bruce Larson, Dr. Ted Lewis, Dick Morse, Dave Sanson, Hal Simons, Charlie Talbot, Carl Culver, Herb Meyer and Frank Yapp.

Japanese Affiliate Leader Visits Here

(GLENDALE) Librascope was host July 27 and 28 to Etsuo Aoyama, General Manager of Mitsubishi Precision Co., Ltd., General Precision, Inc.'s licensee for Japan. Aoyama is spending a month in the U.S. on a tour of General Precision facilities.

Aoyama was briefed on Librascope products and operations by President R. W. Lee; F. C. McAndrews, Vice-Pres, Engineering and Research; Maury Center, Vice-Pres and Gen-Mgr of SED; A. F. Sammet, Vice-Pres of CCD and Dr. John Salzer, Director of Librascope's Research and Systems Center.

Principal items of discussion included sales prospects and marketing strategy in Japan for CCD's LGP-21 computer, introduction of SED's L-2010 computer, expansion of Mitsubishi Precision's areas of interest to include antisubmarine warfare fire control systems, and the market for Librascope disc memory systems.

Aoyama was named General Manager of Mitsubishi Precision Company in February after a highly successful marketing career with Mitsubishi Electric Corp. During his discussion with Librascope top management he declared that his chief goal is to increase MPC's sales volume and to improve the profit picture.

These objectives can be met, he declared, only through effective exchange of technical know-how, leading to quality products that can be marketed effectively.

Akira Takei, Manager of Mitsubishi Electric Company's newly-established Los Angeles office, and S. Kikuchi, Assistant Manager of the machinery division of Mitsubishi International Corp's office in Los Angeles, accompanied Aoyama during his visit here. Arrangements for the visit were made by J. A. Mesch, Librascope's Manager for International Services.

Press Conference

Forty representatives of Los Angeles newspapers and press services, the technical press, radio and television stations, visited Librascope July 28 for the public unveiling of the AN/FYQ-11 data computer system, which we have built for the U.S. Air Force Command and Control Post in the Pentagon. They were guests of G. S. L. Kranz, program manager, Ken Slee, Public Relations Manager and Al Erickson, press relations manager.

George E. Pringle Joins Finance Dept.

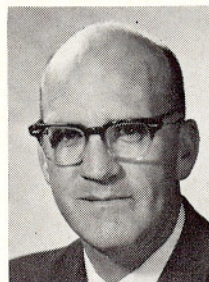
(GLENDALE) George E. Pringle, for 17 years a member of U.S. Steel Corp's finance department, has joined Librascope as a specialist on the staff of the Group Finance department.

Pringle comes to Librascope from Consolidated Western Steel, a U. S. Steel subsidiary, where he was Supervisor of Cost Accounting and then Senior Cost Analyst.

A native of Oakley, Wyoming, Pringle studied accounting at Northwestern University and Brigham Young University, winning his degree there in 1946. He worked his way through school as a miner in the coal mines near his home town.

He is married and the father of four teen-aged sons and daughters.

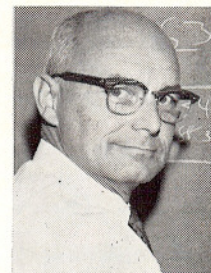
Pringle makes his home in La Habra.



PRINGLE

Toastmasters Bid New Members

(GLENDALE) Librascope Toastmasters, whose members will celebrate the organization's 9th birthday this Fall, invite



NAHRSTEDT

employees interested in improving their public speaking skills to join their ranks.

"It's a practically painless way to learn how to talk effectively to groups of people," says Vince Nahrstedt, a three-year member whose Toastmaster - developed speaking skills have won acclaim in

the organization and in his home community.

"You learn by doing and, because you're among friends, you don't suffer any permanent wounds if you goof."

Nahrstedt recently received a certificate of merit from Toastmasters International, following completion of his Basic Speech Training. He has won 18 awards as a speaker and was the first winner of the Librascope "Toastmaster of the Year" award.

The club meets twice monthly, on the first and third Wednesday evenings, at the Old Town Inn in Burbank. Applications for membership may be made to any of the officers, who are:

Scott Dwire, President; Joe Freiberg, Educational Vice-Pres; Bill Tilden, Administrative Vice-Pres; Herb Meyer, Secretary; Dr. Ted Lewis, Treasurer and Les Hey, Sergeant-at-Arms.

Precisioneer Picnic Pulls Record Crowd

(GLENDALE) One of the biggest crowds in Precisioneers history—837 youngsters, their dads, mothers and friends—turned out for the Annual Picnic July 18 at Soledad Sands Park.

Everybody, says Kay Small, General Chairman of the event, had a rousing good time, "even members of the committee. A lot of people have told me that it was the best picnic we've ever had."

Games, swimming, pony rides, free pop and cotton candy were enjoyed by all small fry, who also were entertained by clown Ralph Rousseau and other strolling players. The dance floor was given a good workout by adults.

Aiding Chairman Small in making arrangements were George Poppa, in charge of food and beverages, Precisioneer President Fred Killips and Coordinator Eileen Brown. (See photos on back page.)

1964 Blood Bank Honor Roll

Alberg, Donald K.
Albert, John S.
Allen, Lena S.
Anderson, Robert M.
Atcherson, Anne M.
Avera, James A. Jr.
Benner, Daniel C.
Buchanan, Catherine E.
Bunch, Fredrick R.
Bentley, Lester H.
Bietsch, William G.
Butts, Thomas A.
Camblin, Bob
Clark, Ronald G.
Copeland, Howard L.
Cowen, Don L.
Creamer, Alice O.
Crockett, George D.
DeYoung, Peter
Dodson, Harold E.
Doolittle, Carl J.
Elder, Bert L.
Fauvre, Edward B.
Fekety, Emery E.
Gammel, Marvin R.
Garcia, Arthur J., Jr.
Goodrich, Raymond

Groulx, Yvonne E.
Haynie, Darleen M.
Heinz, Leo J.
Heminger, Edwin D.
Henshaw, Gerald R.
Holmes, John R.
Horton, Freddie Leon
Jackman, Stephen E.
Jaeger, Richard A.
Jasper, John S.
Johnson, Emlah Mae
Johnston, John W.
Kiesel, Richard H.
Killips, Frederick J.
Kimmel, Maurice
LaRue, Alan W.
Lebow, Warren B.
Leventhal, Morris E.
Lincoln, John G.
Linsley, Clarence R.
Lorenzino, Mary K.
McProud, Charles G., Jr.
Manzanarec, Nelson E.
Mandeville, Kenneth R.
Marshall, Frank B.
Marti, Norm E.
Meyer, Herbert

Murtha, Frank R.
Navarro, Jesus A.
Newbanks, Harold J.
Newman, William E.
Nordendahl, Doris P.
Novielli, Carl W.
Parry, James T.
Perry, Robert J.
Phillips, John P.
Robinson, Verna M.
Robinson, Wallace H.
Roby, Juanita E.
Rocha, Frank C.
Rushing, James W.
St. Clair, Roger J.
Salazar, Elroi R.
Sanchez, Ray
Schwartz, Oscar A.
Selman, Cecil R.
Shearer, Glenn M.
Shepard, Roy L.
Stanek, Edward A.
Terrill, Margaret Louise
Thompson, Loy B.
Van Der Velden, Hank
Van Essen, Arthur
Woodard, John B.

