



25 Awarded Five-Year Pins For Service With Librascope

Twenty-five new members were awarded five year pins at the annual dance and meeting last month of the veteran Librascope employees organization. Five 10-year pins also were awarded.

At the meeting LibraVets was adopted as the official name of the organization, and an executive committee elected to administer functions of the organization.

The group was addressed by President Lewis Imm, who said the Libravets compose the backbone of the company.

He said they would become increasingly important as a cohesive force and a source for the perpetuation of company spirit as Librascope continues to expand.

Awarded 10-year pins were Cesar Goldstein, Keith Kinnaird and Carl Van Hove. Skippy Case made the presentations.

The executive committee consists of Galen Manan, chairman,

Dave Harrison, Art Davis and Keith Kinnaird.

More than 200 attended the dance, which was held at the Burbank Elks club. Music was provided by Ivan Scott.

A buffet dinner was served following the short business meeting.

Death of Bill Wertz Shocks Co., Workers

Bill Wertz, 62, Librascope employee for the past 11 years, died unexpectedly at his home, Sunday, July 12, of a heart attack.

Funeral services were held Wednesday, July 15, in Mt. Olive Lutheran Church, La Crescenta. Librascope employees sent flowers.

Wertz was born in Orville, Ohio in 1891, and attended school in Canton, Ohio.

For several years Wertz was a prospector, miner and assayer, and he continued to maintain an interest in this field.

Later he became a machinist and settled in Glendale. He was one of the founders of the Glendale Industrial Association, and its first president. He came to Librascope in 1942, and since 1945 had worked in the assembly section.

Known and liked by everyone, Bill was considered a loyal, dependable and trustworthy worker. All Librascope employees who knew him were saddened to learn of his death.

It Was This Long!

Everybody caught a fish! One of the most successful of the Precisioner-sponsored deep sea fishing ventures was held last month, with an average of about 10 fish per person caught by the anglers.

Wayne Kirby won the jackpot with a 7¼ pound sea bass.

Most of the fish caught were "Spanish mackerel," which the anglers tell us are not really mackerel at all, they are a very hard fighting and good tasting fish.

The picture above shows a few of the 25-odd seafarers. Look good? Maybe the wife can be talked into letting you make such a voyage during vacation.

Baseballers In Hot Final Battles

After climbing up to first place, a half-game in front, the Precisioner's baseballers dropped back to second place, two games out, by press time.

With the last game scheduled for July 29, about publication date, the race was far from over.

The final contest was a big one, with the Stansbury Fireballers the opponent. The Precision ladies suffered four straight defeats by the Stansbury crew, who always seemed fired up for their games with Librascope, before finally downing them 10-5 July 13.

CONGRATULATIONS

Congratulations, "LaRoche" on your new arrival. LaRoche is a member of the Mark 30 line and is the proud father of a 5 lb. 10 oz. baby girl, Nancy Elizabeth, born July 3rd.

Start Loading Up the Car, Ma; Can't Wait for That Vacation

The engineer stood thoughtfully over the drawing board, gazing with absorbed interest at the problem before him. His companion watched expectantly.

"By gum," said the engineer, an eager light in his eyes, "I think we'll go to Colorado. They say the fish jump right into your net."

His companion was scornful. "Ah, that's too much driving just to get a couple of measly trout. Me for the beach at La Jolla and some deep sea fishing, where you can really tie into a big one."

Any resemblance between these mythical characters and Librascope employees is, of course, purely coincidental. Nevertheless, vacation time is at hand once again, and it is possible a stray thought or two may be directed toward that welcome period.

Just a few days from today the bustling activity which usually characterizes Librascope will come to a halt. Machines will be silent. Desks will remain clear and uncluttered. Drawing boards will be covered.

This year the plant again will revert to its custom of closing down for one week during the vacation period.

As usual, the employees will scatter to the far corners of the country. Some will visit friends and relatives in distant states. Others will pack the old car with kids, tents and camping equipment and head for the mountains or beaches. A few will take a quick glance at the bank balance and decide to remain at home and putter in the garden or relax on the cool lawn.

After that one week activity will resume at Librascope, although on a curtailed basis. Those fortunate enough to have earned a second week of vacation will continue to loll on the golden beaches or swing indolently in a hammock strung between two sighing pines beside a mountain stream.

Others, with a sigh for memories of that one short week, will resume again the serious business of producing precision-built instruments for Librascope—cheered by the prospect of two weeks next year.

So, the editor and staff of Librascope wish you all a most pleasant vacation. Watch out for poison ivy, rattlesnakes and sunburn. Forget your jobs — although this warning probably is unnecessary — and have fun.

Training Section Offers Chance For Step Up Librascope Ladder

An expanded training section went into action last month, ironing out details of training program, parts of which are already under way.

The training section, staffed by Dick Bartlett, in charge of general training, and Clair Allen, in charge of job training, is located in the southeast corner of the adjustment shop.

Subjects now being offered include a 12-hour course in blueprint reading and an eight-hour course in measurements and measuring equipment.

Planned for the near future are courses in gearing, eight hours; bearings and linkage, eight hours; doweling, drilling, reaming, taper-pinning, screws and hardware, 18 hours. An introductory course for all new employees also has been established. New courses will be planned in accordance with the

needs of the company and the employees.

Librascope's training objective is the improvement of employee work habits, skills and attitudes, with a resultant lowering of overall production costs.

All Urged to Join New Credit Union

Officials of the newly formed credit union urge all who have not yet turned in applications for membership to do so as soon as possible.

Application blanks may be obtained by contacting Marion Parker, treasurer in the Personnel Department. She will answer any questions you might have on savings and loans. Membership is open to all employees.

Remember, your credit union is the easy way to save, the easy way to borrow.

PACING FLOOR

The Fourth of July wasn't Independence Day for Bob Nelson of Adjusting. He was pacing the floor at Physician and Surgeon's Hospital awaiting the arrival of an addition to "the Nelson household." Bob relaxed when by 10:15 a.m. he received news of the birth of his little girl, Karen Louise. Congratulations, Bob.

Vacation Photos Wanted

Taking that camera with you during your vacation?

If you get any good snaps of vacation activities, interesting vistas, or Librascope families enjoying themselves let us know when you get back.

Check the bulletin boards for details as where to turn in your pictures.

We will have to have a short description of the scene, any people in it identified (if possible) and your name and address.

Keep Us Posted--

What results are you getting from our "want-ad" department? Let us know about your successes (or lack of). Do you have any ideas which might improve the Classified section? Keep the LIBRAZETTE posted for it is only in this fashion that we can perform the best service for you.

It is worth noting again that the LIBRAZETTE enjoys a unique distinction in Journalistic Circles in that this paper enjoys 100% coverage of the community (Librascope) it serves, and that all subscriptions are paid in full.

Planimeter Is Simple Gadget, But It Does a Man Size Job



Librascope employees are busily at work turning out parts for a simple gadget which will be of great aid to industry.

The device is called a Square Root Planimeter—a machine for measuring the area of any plane figure—but the problem handed Librascope by Universal Oil Products of Chicago required a most unusual planimeter.

Several companies had started making miniature strip chart recorders for recording the flow of various liquids and gases in which the length of chart was proportional to time, and the flow drawn on it by a flowmeter was proportional to the square of the discharge rate of the flowmeter.

Therefore, simply measuring the area under the curve as could be done with a conventional planimeter wouldn't do the job.

What was wanted was the quantity of the liquid of gas that had gone through the meter in a given time, usually 24 hours.

With the distance of the curve from zero proportional to the square of the quantity wanted, it was necessary to extract the square root of this distance before multiplying (or integrating) with the length of the chart to determine the quantity of the fluid.

However, it isn't practical to make a square rooting mechanism that will go to zero, as this one must.

The Librascope planimeter uses a very simple dodge to get around the problem. It contains a squaring cam, the follower of which is attached to a pointer. Thus, if the cam is turned so the pointer fol-

lows a square curve, the rotation of the cam itself is proportional to the square root of the quantity that the pointer is following.

In the Librascope plan a hand knob turns the cam, and this motion moves the ball carriage of an integrator. A small motor pulls the chart paper through the planimeter and turns the disk of the integrator. When the operator turns the knob and cam so the pointer follows the curve as the paper moves along, the ball carriage of the integrator is positioned according to the square root of the value represented by the curve.

The output of the integrator drives a counter which then shows the true quantity of the fluid which passed through the flowmeter.

The need for the strip chart planimeter arose when the chemical and petroleum industries started installing what they called "graphic panels." The panels are pictorial representations of the plant or refinery, with meters, gauges and recorders to show what is happening at all processing points.

These panels sometimes make it possible for one or two men to control completely a large plant from a single station. To keep the panels from becoming too large small strip chart recorders were developed for installation at points where it was desirable to know the quantity of fluid which had passed through the meter in a 24-hour period.

The idea was excellent, but because the output of the meters was a squared function they were stuck until Librascope produced the Square Root Planimeter.

At present Librascope has made only eight samples, all of which have received an extensive trial. We are now in the process of producing 100 additional planimeters.

Two of the samples produced by Librascope are being tested in the Standard Oil Co. refinery in Southern California.

Schultheis Brings Back More than Suntan

Back from the steaming jungles of Mexico, where for 17 days he explored and filmed the ruins that represent civilizations existing on the American continent untold centuries ago, Herman Schultheis of Development Engineering already is deep in preparation for next year's jaunt.

Deeply interested in ancient peoples and cultures, Schultheis is undertaking the ambitious program of studying and tracing the beginning and development of civilizations on the American continent through photographing the remaining monuments, relics and ruins.

Already Schultheis has explored the Southern United States, the West Indies and the northern coast of South America. Last year he covered a section of northern and central Mexico. Next year he plans to finish filming the Central American republics. He has collected nearly 20,000 photographs of this part of the world.

This year Schultheis was asked by the Mexican National Museum to assist in removing relics from the recently opened temple at Palenque, Yucatan. This necessitated a bush-hopping air trip and a jeep and walking trek through some of the worst jungle in the western hemisphere.

The reason for the museum's request was Schultheis' reputation in the investigation of art treasures and Egyptian relics for numerous East coast museums.

After several years of research, he worked out a system of photographing art works with different radiations, from infra-red through gamma rays. He found he could not only photograph each layer of paint built up on the canvas, by the original artist or by a "restorer," but also determine what paints were used.

This work resulted in the publication of a book by Schultheis entitled "Technical Research in the Field of Art—Using different wave lengths of the visible and invisible spectrum." It was published by the Art Conservation and Research Laboratory in New York.

Following this work, Schultheis was commissioned to "X-ray" Egyptian relics. One of the mummies he photographed was that of a king's retainer which had lain,

ignored, in an ante room of the pyramid.

His photographs surprised everyone when they revealed jewelry of great value. On the basis of Herman's photographs, the museum was able to unwrap the mummy, remove the jewelry, and return the mummy to its original condition.

The advantages to Egyptologists of this work was tremendous since once the photographs were made they had an exact record not only of the outward appearance of the relics but of all the details of construction.

With the Mexican relics this was of extreme importance since conditions in the jungle lead to rapid and complete disintegration of the mummies after the tombs are opened. Then, too, there are only a couple of months a year when the rain is not too heavy for exploration and investigators must work very quickly.

As a matter of fact, the rainy season began the day Schultheis and his wife arrived at Palenque, a jungle village of primitive huts. That day, Herman said, 12 inches of rain drenched the area.

Fortunately the next few days were clear and, in spite of the mud, the Schultheises trekked eight miles to the site of the ruins. They spent three days taking pictures and investigating the tombs.

However, the Palenque expedition was only a part of the Schultheis' 17-day trip. Traveling 15,000 miles, Schultheis also returned to northern and central Mexico, where he explored Guad-

alajara, Lake Patzcuaro and the Paricutin volcano. He then took in Oaxaca and the Monte Alban and Mitla ruins, drove to Tehuantepec and went by train over the isthmus of Vera Cruz. In the Yucatan area, Schultheis visited Chichen Itza, Uxmal and the rarely visited Kabah ruins, besides Palenque.

The constant fight to keep cameras and film dry was a major problem. In addition, the photographer was exposed to the hazards of jungle travel, mosquitoes, ticks and other tropic pests. He slept in native huts, traveled over a washed-out jungle railroad, rode a jeep through dense foliage where only a few weeks ago a well-defined path had existed. Always there was the nagging thought he had a tight schedule which must be kept.

Was it worth the trouble? Schultheis thinks it was. The sight of a temple or pyramid suddenly looming before him in the dense jungle—a temple perhaps never before seen or explored—was a thrill to compensate for any danger or discomfort.

The trip took countless hours of preparation. In fact, for an entire year Schultheis planned, studied and worked. The result was more than 4,000 pictures, many taken in 3-D color.

Speaking of tight schedules, some of the math minded people in the Librascope back rooms figured that 4,000 pictures in 17 days meant shooting every four minutes.

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Silvertooth is Greatly Impressed By Technical Progress in Europe

A tour through Western Europe to find out what in foreign technical circles is of interest to Librascope was completed recently by E. W. Silvertooth, sales.

Silvertooth visited France, England, Holland, Belgium, and Germany establishing liason between Librascope and development workers in these countries. He was im-

pressed with European technical progress, he said.

"We Americans, sometimes feel we have the best of everything," Silvertooth said.

"While this may generally be true in the social and political fields, it does not necessarily hold in the other direction, particularly in technical advances. An excellent example being the wartime development of nuclear weapons, a program in which the United States leaned heavily on contributions of foreign scientists for the basic knowledge essential to the successful prosecution of that effort," Silvertooth continued.

Silvertooth found the dislocations of war are sufficiently adjusted that the scientific and technical organizations of Western Europe are again hitting their stride.

"The company, looking forward to the competitive years ahead," he said, "decided that the potential of European contributions should not be overlooked in plans to maintain and increase its leadership in the fields of military and industrial computing systems."

"It is hoped that as a result of this sort of investigation, arrangements will be made to provide Librascope with a continued source of information on European developments and the opportunity to expand the market for our products to other parts of the world," Silvertooth concluded.

EXCHANGED VOWS

Claudine Little, Accounting, exchanged vows with Charles Bomar Friday, May 22. The wedding took place at the North Hollywood Presbyterian Church and was followed by a reception at the bride's home. A brief honeymoon was spent in Santa Barbara.

Claudine was honored at a surprise bridal shower on June 4, which was attended by friends at Librascope.



Pictured above is one of Librascope's newest specialists, Richard Bartlett, who has come with the Company to prepare and coordinate company training programs. With Bartlett is Clair Allen who has been doing fine work on trades training to date. Between the two of them it is expected that Librascope will soon have a well developed training program of subjects.

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Librascope Drops Ping Pong Tourney

Table tennis enthusiasts at Librascope are making plans to form a team for participation in a Valley League.

After vacation a round robin tourney will be held, and the top five players will make up the company team. Several other companies in the Valley have indicated a desire to join the league.

Meanwhile, in a preliminary elimination contest held recently, George Chianello came out as top dog, closely followed by Carl Miller.

Librascope also sent a team to try the Menasco paddle weilders, but lost, 13-7.

Bowlers Wanted For Fall Season

Attention all bowlers. The Librascope Winter League is scheduled to begin during September, and more participants are needed.

Sign up for a spot in League play, and soon you, too, will be bowling 300.



Above are a sampling of Herman's 4,000 pictures. Left to right, they are:

1. A bridge (?), and one of the better ones, crossed by Herman on his way to the recently formed Paricutan volcano in north central Mexico.
2. Palenque village in the jungles of Yucatan where Herman and his wife waited while 12 inches of rain fell in 24 hours. They stayed in half of a partitioned hut like the

one seen here.

3. A ruin at rarely visited Kabah, Yucatan. The columns are of a hard stucco substance on rock walls, still brightly colored — red, blue, yellow pastels — after centuries of jungle exposure.

4. "The strangest pyramid on earth" at Uxmal. Probably a multiple tomb of religious leaders with a temple on top.

5. The ruins of a 16th century church erected by the Spanish on

a native pyramid, probably because they could not overcome the religious veneration of the spot by the inhabitants, at San Juan Chotelco. One of Herman's prize finds after a year's wait and a frustrating day-long search against the advice even of museum officials.

6. Tarascan Indians in primitive dugout canoes on Lake Patzcuaro.

7. Giant cactus and lava bed country around Lake Chapala.

8. The native section at Acapulco.

9. Elephant-trunk like cornice on the nunnery at Chichen Itza, Yucatan. Odd thing is the nearest elephants are in another hemisphere.

10. Herman and his wife in front of one of the excavated temples at Palenque.

11. An Indian girl at Tehuantepec selling mangos. Schultheis says the picture was taken in the interests

of anthropology or ethnology or something.

12. The civilized world pushes within a few miles of Planeque village at this air strip (this is an air strip?) Herman landed and took off in this plane, furnished by the Mexican government, and he swears that palm tree was there all the time.

Photos copyright 1953 by Herman Schultheis.

More About Schultheis' Trip

Herman admitted this sounded impossible when he first heard it, so he went back and counted his negatives. If anything, he said, he had to shoot more often on an average since he has at least 4,000 pictures—not counting the bad negatives. He used two cameras, an Exacta 35-mm and a 127 roll film camera. The 35-mm film he bought in movie sized reels and cut into strips before leaving at

night. For a dark room he had the jungle since at night the foliage cuts out even starlight.

Last year the explorer-photographer filmed the ruins of Teotihuacan, Xochicalco, El Tajin — where new discoveries have been made—Tenayuca, Puebla and Cholula, and the famous Tula ruins, the seat of the ancient Toltec civilization.

Schultheis also admits to a quick jaunt to Acapulco, where the waters are blue, the beaches lovely—morning and afternoon, for your convenience—and the morning breakfast consists of a delicious variety of fresh tropic fruits served in your room.

Schultheis is enthusiastic about his program. He believes a complete photographic record of the traces left by these ancient peoples will prove valuable to researchers. This explains the number of pictures he took, his aim

being to get a record of everything of interest to people in a wide variety of fields—from botany to anthropology.

However, he admits his main interest is in the people of early civilization and the puzzle as to their origins and source of their culture. He points out the older the ruins, apparently the higher the civilization and the more similarities to ancient Egyptian and Grecian civilizations. He feels the complete story, if it is ever known,

may tell us much not only about the Maya's but about our own origins too, maybe even bring out startling facts about the origins of all civilization.

Herman feels that with the type of picture coverage he has made enabled to study at leisure the remains of different civilizations, by comparison the archeologists and historians may in time be helped to arrive at some solution to the mystery of the early inhabitants of this continent.



President Lewis Imm, shown here presenting Cesar Goldstein with a ten year pin, called the LibraVets the backbone of the company at their recent dinner. Also awarded ten-year pins were Carl Van Hove and Keith Kinnaird. Photos by Duggan.



This year's recipients of five-year pins include (left to right, bottom row first): Lorraine Thompson, Violet M. Tarbell, Leo N. Dietz, Andrew Lee, Verle McClure, Frank X. Kramer, John Biggie, Thelma Barnes, Dorothy Willard, Phylliss Cooper, Charlotte Hoskinson, Jeanette Calley, Lowell Eisenhower, Ralph Barnett, Robert Whitcomb, Charles Baumgard, Arthur Claessons, Lyle McDonald, Elmer Lehman, Carl Culver, Urban Kemme, James E. Clark, Wilbur Mayclin, Tom Bryant. Not in the picture are Joseph Wilson and Charles Ahrens. Arlene Drennan, on sick leave, would also have been presented a five year pin.

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Births

It was a baby boy for Glen Seltzer (Drafting), and wife Adele. Born June 27th he was named Gregory and tipped the scale at 8 lbs. 15 oz.

Ed Hirt (Engineering), and wife Betty welcomed the arrival of their third child and second son, June 25th. He weighed 6 lbs. 13 oz. and has been named William Bruce. Father Ed says he has a "full" head of red hair!!

Chuck Keesling (Methods), is a proud new father these days, and the arrival of Karen Lynn is the reason. She arrived June 30th and weighed 7 lbs. 15 ozs. A proud grandmother also works here at Librascope, Hilda Keesling (Drafting) and also Precisioneer librarian. She'll really give you the story on this baby!

Seniority Governs Parking Plan

As announced by bulletin, parking in back of building No. 2 is now largely reserved for employees who have served five years or more with the Company.

The Company has announced that it hopes to continue to be able to provide adequate parking for all employees, but that the issuance of reserved stalls is regarded as a recognition for long service with the Company.

LEGION POST 507

For an evening of good entertaining and a chance to loosen up the "old joints" I suggest you spend a Saturday evening out at the Legion Post 507 at Newhall. Chubby Reed and his band are the "star performers or entertainers." Reports from "Librascopians" who have attended are all very favorable.

The LIBRAZETTE

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Doris Appleby—Assembly
Patricia Swope—Engineering
Library
Chuck Freeman—Accounting
Keith Kinnaird—Publications
Mac McKeague—Personnel
Photography by Lee Duggan

Johnny Blake, Assistant foreman in Adjustment department, rested from his duties for a few days while convalescing from a minor operation.

Classified

FOR SALE—Pebblesque Pattern, Rose colored rug, 11'-2½" x 15". Excellent cond. \$60.00. 50' Rubber Hose plus Hvy. duty reel (150'

approx.) Wheels like cart, \$5.00. Tel. CH. 8-9906. Joe Menhasen.

FOR SALE — Steel - pipe playground set. Originally \$184.00. 10 ft. slide, 2 swings, rings, glider, teeter-totter, ladder and bars. \$90. Tel. CH. 8-3874. Gladys Graham, Assembly.



—Photo courtesy Los Angeles Police Department; Lippy created by Joe Riddle.