LIBRAZETTE
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Christmas—1957

The Christmas season is traditionally a time for renewing old friendships and strengthening new ones. Some of you are marking your first Christmas with Librascope. Although you are new and unknown to many of us, I welcome you on this joyous occasion. Others of you are old and cherished friends—friends whose loyalty and understanding through the years has been invaluable to me. To all of you—old friends and new—I extend my sincere appreciation for the co-operation and diligence you have shown. I hope that you and your family have a very Merry Christmas and a Happy New Year.

LEWIS W. IMM
President

MEET CANDY KRIETE—We want to introduce this young charmer to our readers. She's 10-month-old Caroline Kriete. Her parents, Bill and Gerda Kriete, call her Candy for obvious reasons. Candy was born deaf, but that isn't going to handicap her. The combination of parental love, a hearing aid, and the training techniques of the HEAR Foundation will help her grow up normally in the noisy, active world we know. (Photo by Duggan)

Librascope Xmas Card Fund Grows to $1500

Librascope's annual Christmas Card Charity drive reached the halfway point December 13 with approximately $1500 already contributed by employes.

The Yuletide greetings of more than 600 employes are decorating the 30 Christmas trees displayed throughout the Company area. If yours isn't there now, the Card committee hopes it will be when the drive ends December 20.

This year's fund recipient is the HEAR Foundation, where Dr. Ciwa Griffiths and her staff are working a modern day miracle with deaf children.

The pioneering work being done at the Foundation has real meaning for former Librascope employe Gerda Kriete and her husband Bill. Their 10-month-old daughter Candy has been a regular Foundation visitor since she was ten weeks old.

Candy was born deaf and she is deaf today. But a hearing aid, placed on her when she first came to the Foundation, brings sound where all was silence.

What's more, Candy is learning to talk. Her vocabulary is still small, but it's growing. Without the hearing aid, Candy would be mute. With it, her gurgled "Mama" and "Dada" become the most important words in the world for her parents.

Candy is but one of thousands of youngsters handicapped by deafness in the world today. Dr. Griffiths is proving that deafness need not be a handicap. Our contributions will speed that work.

AIRLINE AWARD—President Imm (left) accepts a certificate making him an Admiral of the Flagship Fleet from American Airlines representative Sidney A. Small. The award was made in recognition of Imm's contributions to the development of air transportation. (Photo by Duggan)

BULLETIN

$11 Million Contract Let To Librascope

Receipt of the largest dollar-volume contract in Librascope history was announced December 13 by Ralph Barnett, military planning manager.

The contract, for ASROC systems and associated test equipment, totals more than $11,000,000.

Bulk of the funds will go for ASROC production with the remainder allocated for engineering work, Barnett said.

The contract calls for delivery beginning early in 1959. This schedule is one of the tightest the Bureau of Ordnance has called on us to meet. Although it presents problems, we have met and overcome equally difficult ones in the past, Barnett pointed out.

He cited our success in meeting a similar schedule for the RAT program during 1955 and 1956 as an outstanding example of what we can do.

ASROC was developed by our Shipboard Equipment department under Department director Tom Bryant. The project teams were headed by Howard Applegate, Bill Clonginger, Clare Burgis and Frank Mathews.

Police Officer Commends Driver For Courtesy

A helping hand extended to a lady in distress has placed Librascope truck driver Leo Martin in the running for the annual Los Angeles Police Department "Most Courteous Driver of the Year" award.

Martin, returning to Glendale from an east L. A. delivery, was touring west along 7th street. As he approached the Hill street intersection, Martin saw an elderly woman standing helplessly in the midst of traffic.

He pulled up and motioned her across, but she was too frightened to move. Martin climbed out of his truck, and escorted her safely to the opposite curb.

At this point, a police officer came up and asked to see Martin's drivers license.

"You aren't going to give this man a ticket, are you?" the woman asked plaintively.

"No, I just want to shake his hand," the officer told her. "We don't see many California drivers like him."

Airline Honors Imm for Aiding Air Development

Pipe all hands, mate. We have a new admiral aboard. It's President, pardon us, Admiral Lewis W. Imm.

President, we mean, Admiral Imm's new title was conferred upon him by American Airlines for "... materially contributing toward the development of air transportation."

←

Formal presentation of the award, which names Imm an honorary admiral of the American Airlines flagship fleet, was made by Sidney A. Small, regional sales manager for American.

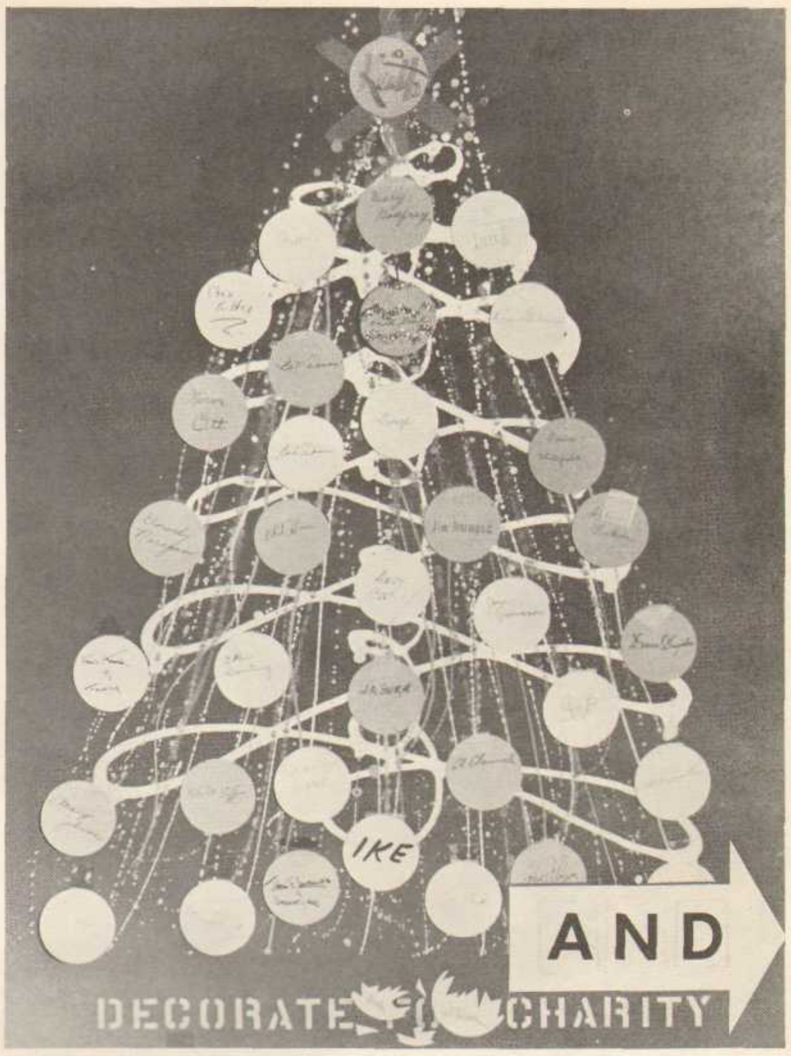
The award was made in recognition of Imm's pioneering work in the field of aircraft instrumentation during the past twenty years.

It carries with it membership in the Admiral's Club, an organization founded in 1937 by American to honor men who have personally contributed to air transportation development.

American maintains clubrooms for members at five of the nation's leading airports. These include Los Angeles, New York, Washington, D.C., Fort Worth and Dallas.

THE LIBRAZETTE STAFF WISHES ALL OUR READERS

A Happy Holiday Season



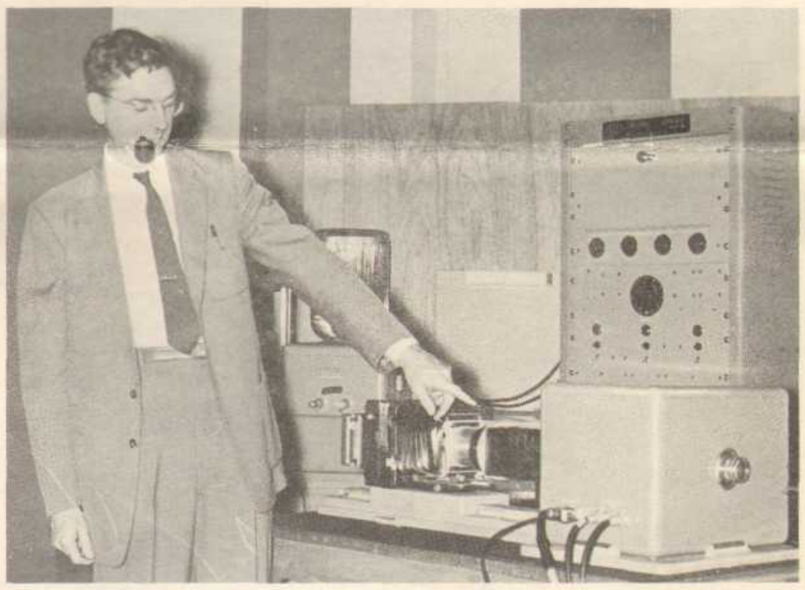


IMAGE CONVERTER—R. Carroll Maninger, PTI department director, points out the image converter tube used in the ultra-high speed electronic camera developed by Precision Technology for the University of California's Radiation Laboratory at a recent meeting of the Society of Motion Picture and Television Enginers in San Francisco. (Photo courtesy of PTI)

Millionth-second Exposures Are A Snap for New PTI Camera

Someone once said that scientific progress consisted of moving a decimal point one place to the left.

In order to move that decimal point, however, someone had to obtain more precise information about happenings in the physical world.

Because his eyes, ears and hands, keen and capable though they are, are limited in what they can see, hear and handle, the observer must extend his senses by other means.

The engineers and technicians at Precision Technology, Inc., Librascope's newest engineering department, are assisting in this extension of man's senses into the unknown.

One of their recent developments is an electronic camera capable of photographing high speed phenomena whose durations are measured in millionths of a second.

The men responsible for its development are PTI engineers R. C. Maninger and R. W. Buntenbach, who began their work in 1954 under a contract with the Univresity of California Radiation Laboratory in Livermore.

Key to successful development of the PTI electronic camera is its image converter tube. The English tube used by others in work prior to 1954 had electromagnetic focusing and deflection. When the beam current was turned on and off for extremely short exposure times, excessive distortion of the image resulted due to the magnetic nature of the tube.

The PTI image converter tube is electrostatically focused and deflected and image distortion is reduced to a minimum. Specifications for the tube were developed by PTI and Radiation Lab engineers. Radio Corporation of America completed the design and manufacture of the new tube.

The image converter tube in effect acts as a shutter in a standard

(Continued on page 6)

Don't miss Librascope's "You and Your Future," broadcast Monday through Friday at 6:55 a.m. over radio station KHJ.

CONTRIBUTORS TO THE *CHRISTMAS CARD FUND* TAKE THIS OPPORTUNITY TO SAY...

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Walter M. Koman
Forrest G. McColl
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W. D. Knox
Merry Christmas
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Helen Gruman
Howard C. Applegate
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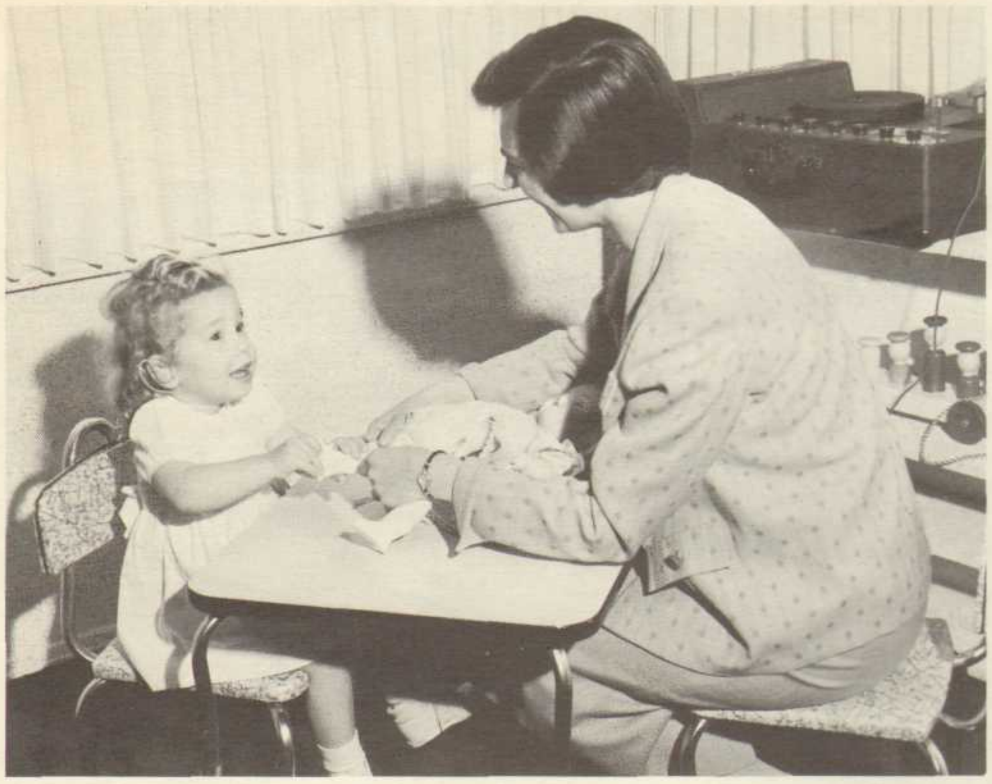
Shirley Johnson
LeRoy Edgerson

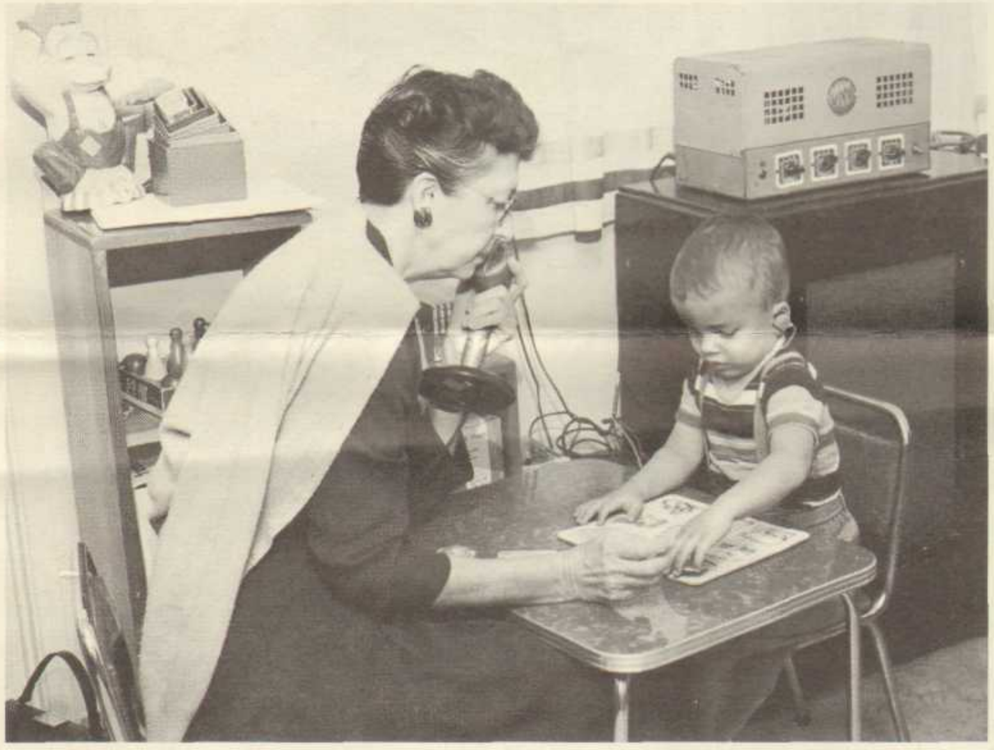
Views from the HEAR Foundation

(Photo by Duggan)

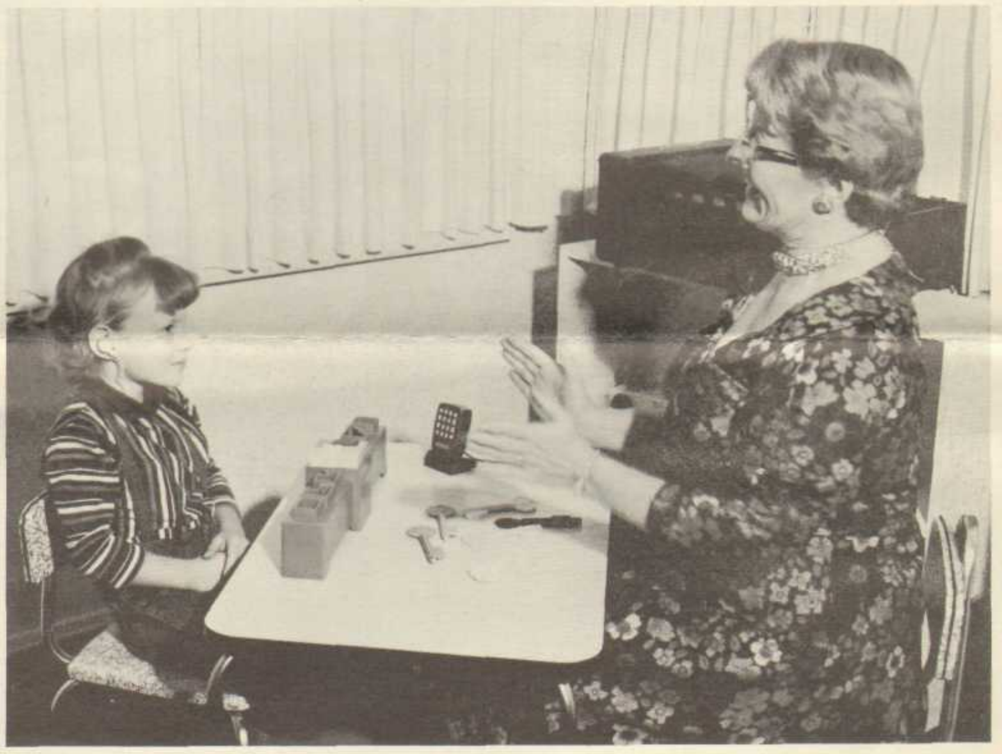


A REAL CUTIE — Miss Jean Hutchinson gave up a much better paying job with a local school system to join the Foundation staff. She, like other staff members, believes the importance of the Foundation work transcends monetary considerations. Smiles such as the one she's getting from this 2-year-old charmer, Linda, are but one of the many bonuses Foundation people receive and treasure.

IT TAKES TIME — Paul is now three and one-half years old. He was only 14 months when he started and the job of learning to speak has not been easy for him. But the few words he can speak are in the cadence of normal speech. More important, however, is the change in Paul's behavior patern. Hearing has brought him an awareness of the world and made an alert and active boy out of him.



THERE'S ALWAYS HOPE — Four months ago the parents of 4-year-old Glen were ready to give up. Their son's case had been diagnosed as hopeless and they were ready to place him in an institution. Then they heard about HEAR. Today, Glen is well on his way to a normal, healthy childhood. He hears (thanks to his hearing aid) and even a broken arm can't dampen his spirits.



CHILDREN LOVE HER — Dr. Ciwa Griffiths is both director and instructor at the HEAR Foundation. The magnetic personality of Dr. Griffiths is nowhere more in evidence than when she is working with one of her tiny charges. Here she demonstrates some of the audio-visual teaching techniques in use at the Foundation with the help of 4-year-old Pamela.

DEDICATED GROUP — It takes more than money to win the battle against deafness now being waged at the HEAR Foundation. Winning that battle required the inspired leadership of a Dr. Griffiths (seated); the quiet efficiency of a Miss Hutchinson (l); and the selfless service of such women as Mrs. Glen Bollinger (r).

WE CAN HELP — This tiny room will soon become a nerve center of Foundation operations for within its sound-proofed walls Dr. Griffiths hopes to install the equipment needed to test the hearing of her students. She now must rely on the portable unit shown here, but our Christmas Card contributions may help provide bigger and better equipment for her use.

A Page From Our Christmas Dance Album

The Librazette

808 Western Avenue, Glendale.

Editor J. A. Mesch

Art Editor
Keith Kinnaird

Photographers
Lee Duggan and
Earl Crawford

Correspondents
Myrtle Gross, Engineering Services

CHRISTMAS Everybody!

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Thelma M. Snyder
Ray McDonald
Elsie Stefurak
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Bill Bratton
MABLE STEINER
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Don Schafer
Ziggy
Simon
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Cesar
goldstein
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Louise Brisebat
Bob McClendon
Nate Sands
J. Bloom
M. McNamee
Dick Wilson
PAUL C. KANE
Joe Pardo
the 4 boys &
George F. Yerkes
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CHARLES BERTRAND
Gustafson
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Joy Ward
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Michael Andreschak
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Jessie
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Annie and Marge Brown
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James H. Fallet
Joyce
James O. Kaske
RALPH MERSHON
Tarbell
Norton
Markin
Donald A. Barnes
Paul Castiglione
R. L. Roepke
Elizabeth A. Irion
Tomasaki
Hayatan
Howard W. Hoffland
Mac McKeague
Sitting
Bill Landolf
Virginia Wall
Joan
Ralph Barnett
James Perlman

Photo Flashes

by **JIM MARFINE**

(Ed. Note: This is another in a series of articles on Photography prepared by members of the Shutter Clique for fellow Librascope camera fans.)

Are you one of the thousands of camera fans who is literally taking pictures "in the dark"? The answer is "Yes" if your negatievs are consistently under- or over-exposed.

Too little or too much light is reaching your film. Why? The most likely *reason is that you are letting your eye serve as a light meter.* Don't do it!

Correct light measurement is so important to the taking of good photographs that the photoelectric exposure meter has become an indispensible part of the photographer's equipment.

Use a meter, not your eye, to determine the proper exposure for your pictures. You'll obtain better prints and transparencies and they'll cost you less, too.

There are two basic methods for measuring the light available for your pictures. Personal experience will show you which is best suited for a given occasion.

Reflected light — the light reflected from the subject or scene to the camera. Measure by directing your exposure meter toward the subject.

Incident light — the light falling on the subject. Measure by holding the exposure meter near the subject and directing it toward the camera. An alternate means of measuring the incident light is to direct the meter at the brightest (key) light source from the subject position.

Once you have measured the light, all that remains is to translate the measurement into the proper camera f-stop and shutter speed settings for the film you are using. The necessary conversion tables are supplied with your meter and with the film you buy.

December Libravets

5-YEAR AWARDS—Eleven Librascope employes celebrated their fifth anniversaries with the Company during December. The new 5-year pin wearers include: (l. to r. from top) Ruth Lantrip, machine shop; Ruby Jack, engineering-administrative; Gladys Graham, personnel; Buzz Newman, Engineering-administrative; Tom Madera, toolroom; Roger Neill, building maintenance; George Ounjian, engineering-administrative; June Carlson, assembly; and Lulu Speidel, model shop. Not shown are John Jacobs, assembly; and Gerald Ott, engineering-commercial. (Photos by Duggan)

Librascope's Kinnaird Is '58 TIMA President

Keith Kinnaird, the genial, pipe-smoking head of Librascope's Technical Illustrating group, has been elected president of the Technical Illustrators' Management Association (TIMA) for 1958.

Kinanird picked up the presidential gavel laid down by Ted Lawton of Hughes Tool Company at the annual installation dinner meeting held December 3 in Rodger Young Auditorium.

The new TIMA president joined the illustrators' association shortly after its formation in 1953. He was elected to a vice presidency in 1955 and served as association treasurer during 1957.

TIMA was organized by a committee of art directors and supervisors of technical illustration groups in the air frame companies in the Los Angeles area in mid-1953.

Association objectives include improving the standing and standards of technical illustration in industry and stimulating interest in tech illustrating among students.

Membership in the association is limited to supervisory personnel and educators in the technical illustration field. Firms represented in the association include Lockheed, Northrup, North American, Ramo Woolridge, American Machine and Foundry, Western Gear, and Los Angeles Trade-Technical junior college.

One of the outstanding events sponsored by TIMA is its annual technical art exhibit at the California Museum of Science and Industry in Exposition Park. More than 12,000 visitors viewed the 1957 show and the association is expecting an even greater turnout for its 1958 exhibit which is scheruled for the month of July.

LibraSport News

Practice Games Scheduled for Basketballers

Precisioneer basketballers began prepping in earnest for the upcoming season when they met the Aeroquip five in a game-type scrimmage at Burroughs high December 11.

The scrimmage was the first of several the team will hold against opposing teams in the Burbank Industrial League in the next couple of weeks.

Official league action will get underway just after the first of the year and Precisioneer coach Bob Bruce will use these practice games to gain a better line on his team.

The 10-man squad held earlier workouts at Burbank's McCambridge Center and shows promise of developing into a balanced, aggressive aggregation.

The squad includes veterans Neil Hinton, production control; Art Moreno, commercial division; Bob Laperle, accounting; and Joe Mesch, personnel. Teaming with them are newcomers Ward Coburn, Dale Holmes, Ron Owen, Dale Schmidt and Hal Valette, all from Engineering.

Tentative starters are Valette at center, Hinton and Owen at forward, and Coburn and Laperle at guard.

Bruce still hopes to find a good, big man in the Company who can handle the post position. If you see any likely candidates, direct them to Bruce.

The league schedule will be posted on the bulletin boards as soon as it is drawn up, and Librascope basketball fans are invited to come out and root for their team. Admission is free.

Kimmel to Assume Commercial Div. Personnel Duties

Morrie Kimmel, personnel department job analyst, will assume new duties and responsibilities with the Commercial Division in mid-January.

The forthcoming transfer was announced by Division manager Dick Hastings in a December 11 memo to division employes.

Kimmel will assist Hastings in such divisional personnel work as employment, wage and salary administration, training and employe services.

Nov. Promotions Received by Nine

The LIBRAZETTE congratulates the following employes who received promotions during the month of November:

Engineering—Administrative

Chuck Baumgard promoted from Spares Analyst to Supervisor—Spares Analysis.

David Kingsbury promoted from Engineering Draftsman to Design Draftsman.

Donald Schafer promoted from Instrument Inspector to Test Technician.

Paul Smith promoted from Engineering Draftsman to Design Draftsman.

Engineering—Airborne

George Markham promoted from Senior Electronic Technician to Electronic Engineering Associate.

Engineering—Shipboard

Jerome Dietz promoted from Engineer to Senior Engineer.

Gray Lange promoted from Junior Engineer to Engineer.

Production Control

Bruce Shearer promoted from Dispatcher to Production Planning Clerk.

Toolroom

Loy Thompson promoted from Toolmaker-Leadman to Foreman.

PRIZE TROPHY — The head of this bull moose will soon be a conversation piece in the Paul Litvinoff home. Litvinoff (second from right) made his kill in the Jackson Hole country on a recent hunting trip. Shown with him are his father (left); Norm Luton; and 68-year-old Dempsey Luton, crack Jackson Hole guide.

Litvinoff Brothers Bag Prize Trophies in Jackson Hole Area

A trio of California sharpshooters teamed up to teach thirteen Texans the finer points of big game hunting during a recent excursion to Wyoming's Jackson Hole country.

Paul Litvinoff, engineering-administrative, his brother Harry, and his father were the threesome who showed the Texans how it should be done and they wound up their week-long hunting trip with a couple of prize trophies.

Heading the list was Paul's 1400-pound bull moose which he bagged on the third day out. The moose aroused considerable interest among wild life authorities in the Jackson Hole area, for it was the first double palm antler specimen shot there in nine years. Its antlers measured 63 inches from tip to tip and it will make an imposing trophy for the Litvinoff den.

Harry Litvinoff waited until the next to the last day of the trip to bring down his prize — an 865-pound bull elk. Harry's kill was the largest bull elk taken in the area in 28 years.

Paul's moose and Harry's elk were the only animals the party of 16 bagged during their stay. Lack of snow in the mountains was partially responsible for the poor hunting, Paul said, for most of the game was still at the higher elevations and would remain there until forced down by the winter snows.

PTI Camera

(Continued from page 1)

type camera. The tube is placed between the camera lens and the film. The lens focuses an image of the phenomenon under observation on a photo sensitive cathode which converts the optical image into an equivalent electron image.

This image travels the length of the image converter tube and strikes a fluorescent screen which converts the electron image back into an optical image. This optical image is then photographed using standard photography techniques.

Although the image exists in its electron form for just a fraction of a millionth of a second, the optical image on the fluorescent screen exists for several thousandths of a second.

The electron image can be positioned at several locations across the face of the fluorescent screen, making it possible to take a sequence of five photographs with exposure times as short as two-hundredths of a millionth of a second and as close together as one-quarter of a milionth of a second.

The image converter camera is in use today at the Radiation Laboratory photographing the effect produced by high voltage discharges, nuclear reactions and other high speed phenomena.

It is also being used by the Lockheed Missiles Division in their Palo Alto laboratories to photograph shock waves traveling in excess of mach 100.

Company Bowlers Elect New Prexy

The presidency of the Librascope Bowling League changed hands this month when Bob Vernon, engineering-special devices, had to drop out of the league.

League members subsequently elected one of Librascope's most avid bowlers, Fred Killips, material control, to head the organization.

The Friday night bowlers completed their 13th week of competition December 6 with the Happy Five maintaining their stranglehold on the league leadership. Happy Five members are Chuck Flickenger, Terry Barnett, Marion Johnson, Bob Bruce and Jim Clarke.

A whole new set of individual leaders has taken over since our last report. Irma Schwartz, engineering-airborne, and Jim Clarke, engineering-special devices, have chalked up seasonal highs in the series category. Irma has a 395-231-626 series to her credit while Clarke's effort is a very creditable 587-72-659.

Individual high game effort among the ladies is Lynn Fortina's 131-81-212. Hal Valette rolled a neat 229-33-262 to top the men.

Welcome

Librascope welcomes the following new employes who joined us during November:

Accounting
Martha Boicourt, General Clerk

Engineering—Administrative
Frederic Frisbie, Design Draftsman
Henry Hill, Engineer
Gayle Hoerner, Design Draftsman
Beverly Kuhlman, General Clerk
Barney Lelong, Design Draftsman
Chester Sherrard, Engineering Draftsman
Dorothy Tomsa, Engineering Draftsman
Donald Wilson, Detail Draftsman

Engineering—Commercial
Charles Johnson, Mathematician
Robert McClendon, Programmer

Inspection
Ronald Montgomery, Electrical Inspector
Joseph Schlegel, Electrical Inspector

Machine Shop
Glen Williams, Jig Bore Machinist

Military Planning
Martin O'Malley, Manager, Long Range Planning

Office Services
Helen Griman, PBX Operator

Shipping and Receiving
Beverly Buckens, General Clerk

Tool Design
Conrad Dahlgren, Tool Designer
James Studdard, Tool Designer