

July, 1983

Librazette

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U.S. ARMY MANEUVER CONTROL SYSTEM *GO-AHEAD!*

GO-AHEAD MEANS:

- TACTICAL EXERCISES COMPLETED SUCCESSFULLY IN EUROPE
- AN/UYQ-19 AND AN/UYQ-30 APPROVED FOR U.S. ARMY FIELD USE
- PRODUCTION UNDERWAY

Librascope Division, The Singer Company, 833 Sonora Ave., Glendale, California 91201
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TACTICAL COMPUTER TERMINAL
(TCT) AN/UYQ-30



TACTICAL COMPUTER SYSTEM
(TCS) AN/UYQ-19(V)

Librascope
a division of The SINGER Company

\$26M PRODUCTION CONTRACT AWARD FOR U.S. ARMY MANEUVER CONTROL SYSTEM

The Company has been given the go-ahead to begin production of the U.S. Army's Maneuver Control System. The first year's production will be worth in excess of \$26 million.

Entering production are the Tactical Computer System (TCS) AN/UYQ-19 and the Tactical Computer Terminal (TCT) AN/UYQ-30, which are used in combination to implement the command, control, and communication functions of the Maneuver Control System.

The Army Systems Acquisition Review Council (ASARC) approved deployment of the equipment after successful completion of field exercises. This contract award culminates an intense development program at Librascope over the past decade, supported by the U.S. Army Communications Electronics Command, Ft. Monmouth, New Jersey.

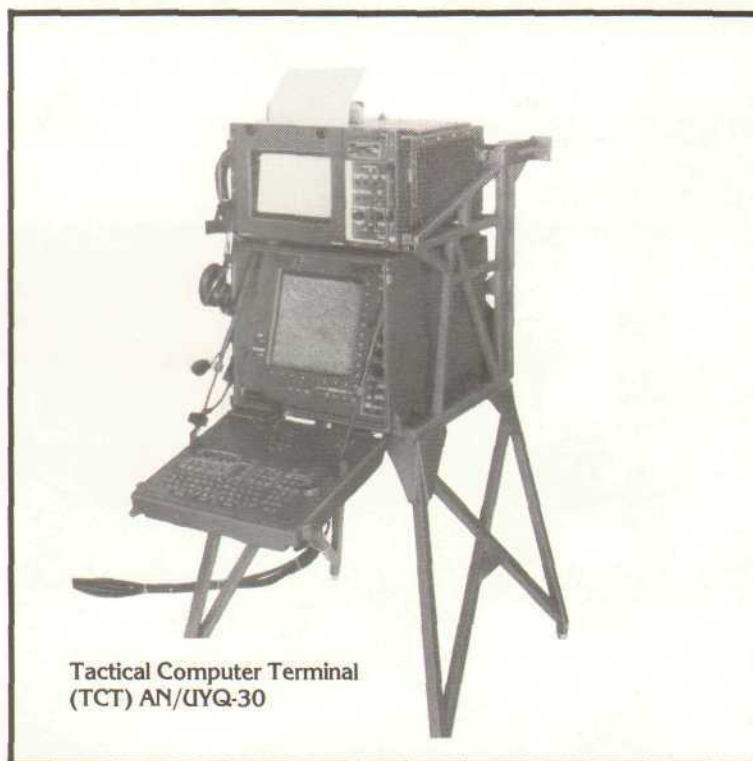
The TCS AN/UYQ-19 is a fully militarized, compact, general purpose data processing, display, and communication system for field use at all principal echelons. Highly mobile, it collects, generates, reviews, analyzes, and distributes tactical information in both textual and graphic modes.

The TCT AN/UYQ-30 is a modular subsystem derived

from the Display-Keyboard module of the AN/UYQ-19. The unit functions at lower echelons where independent microprocessor-driven terminals can be employed. It uses many of the peripherals of the AN/UYQ-19.

Operationally, the TCS AN/UYQ-19 is capable of transmitting and receiving addressed data from digital/analog message devices, other TCS systems, and Army Computer Centers. It can also be used as a stand-alone data processing facility. The modular design of the TCS allows for setting up in a field environment, an armored command vehicle, a shelter, or expandable vans or fixed bases.

The TCT AN/UYQ-30 has the



Tactical Computer Terminal
(TCT) AN/UYQ-30



TCT in U.S. Army
Maneuver Control System

Depicted here is the first application of the Tactical Computer Terminal AN/UYQ-30 (TCT) in the U.S. Army's Maneuver Control System, one of five control systems employed by the Army.

In this deployment, the TCT is integrated with a Tactical Computer System (TCS) AN/UYQ-19. Inherent in this configuration is the basic concept of distributed processing and information interchange between Army echelons.



Tactical Computer System
(TCS) AN/UYQ-19

capability of allowing an operator to receive/transmit text/graphics, display this on the plasma panel, store it in a memory, and recall it at some future time. The TCT also has the capability of transmitting messages by wire or radio via the two independent communication ports.

These equipments will perform all of the tactical command and control functions required by the U.S. Army's Maneuver Control System.

"Now that the system has been approved for service use and production has started for the U.S. Army, considerable interest has been expressed by a number of foreign allies," said Ernest Pool, Vice President of Marketing.

About the Cover...

Featured as the cover of this month's Librazette is the Company's newest advertisement for Librascope-designed TCS/TCT equipment. The ad will be used to announce the award of the TCS/TCT production contract to Librascope. The ad illustrates that the equipment has been undergoing development and testing, and with this new contract will now go into production and deployment. The ad will appear in national and international publications. Pictured in the ad is Bob Maas, Industrial Engineer, looking into the TCS display. Artwork by the Librascope Commercial Art Department. Printed by the Printing and Reproduction Department.

Managers Join Librascope

JOHN MC DAID has joined Librascope in the newly-created



position of Manager, Facilities. Reporting to Bill Girouard, Manager, Industrial Engineering, Mc Daid will be directing Plant Engineering operations, including: Plant and Electrical Maintenance; the Carpenter Shop; Custodial Services; Facilities Engineering and Planning; Environmental and Safety Services; and Company Property Control.

McDaid was formerly Group Manager, Facilities and Services at Sperry Univac Mini-Computer Operations in Irvine. He has an extensive background in facilities management.

KEN BERRY has joined the Company as Manager, Telecommunications and Mail Service.



Berry replaces Gordon Madsen who is now Manager of Network Operations for The Singer Company, Kearfott Division, at the Corporate Telecommunications Office in Wayne, New Jersey.

Berry will oversee all communications including telephone systems, FAX systems, Teletype, TWX and Mailroom operations.

As a Systems and Communications Consultant at Telink Computers in Orange, Berry acquired a working knowledge of the Northern Telecom SL-1 telecommunications system recently installed at Librascope.

Berry became Telecommunications Manager at the same time the Northern Telecom SL-1 system was installed at Librascope. According to Berry, "The system is operating effectively, even though there are still a few problems to work out. Anyone having any problems with their telephone system, should report it to the telephone operators, by dialing 'O'."

Berry is an active member of the Telecommunications Association and the SL-1 Users Group, and has an extensive background in data processing.



Ron Hoover, Facilities Department, with granddaughter, Tanya.

Family Fun Day — 1983!

Over 3,000 employees and their families visited the magical kingdom of Disneyland on May 30, and were among the first to see the all-new Fantasyland which had just been reopened at the park after a year of remodeling.

The Librascope Family Fun Day at Disneyland was in place of the Company picnic this year, and based on the attendance figures, employees liked the idea.

"This was the highest attendance we've had at a Company-planned recreational event in the past 20 years," said Frank Yapp, Vice President, Personnel and Organization.

"In addition, we had over 100 retirees request tickets for the event, which is a record number of retirees at a Company social function."

This Space Taken

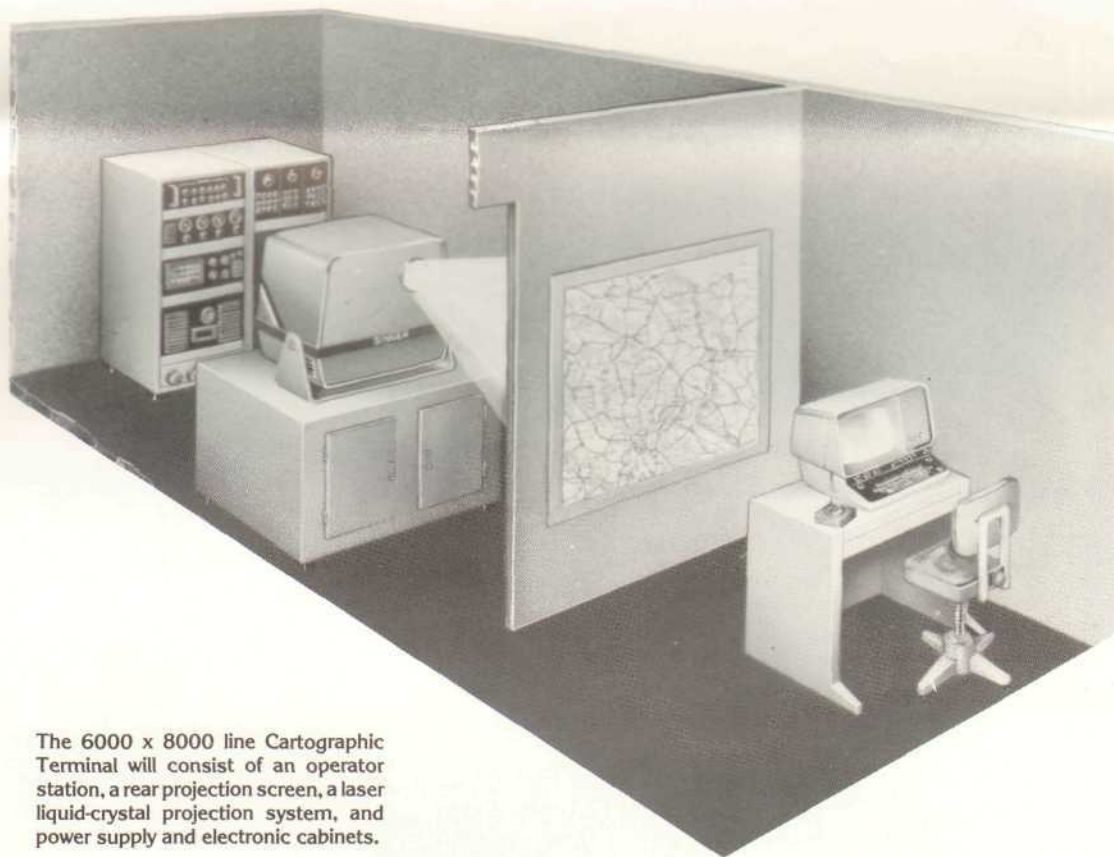
There is now a special area in the Librascope parking lot reserved especially for recreational vehicles and large trucks that are either greater than 18 feet in length or greater than 6½ feet in width.

The area is directly adjacent to Shipping and Receiving behind Building 17, and has been marked to accommodate the added length and width of these vehicles.

"We encourage employees who drive these large vehicles to park in this reserved area," said Herb Bock, Manager, Security. "This area was specifically chosen to permit pull through access with a turning radius suitable for large vehicles."

Employees with smaller vehicles are asked not to use this parking area.

\$1.6M CONTRACT AWARD FROM U.S. AIR FORCE



The 6000 x 8000 line Cartographic Terminal will consist of an operator station, a rear projection screen, a laser liquid-crystal projection system, and power supply and electronic cabinets.

The U.S. Air Force has awarded \$1.6 million to the Company to provide an advanced development model of a large screen Cartographic Terminal for use by the Defense Mapping Agency.

Evolving from Librascope's pioneering efforts in this field over the past several years the interactive large screen multi-color display will use laser-activated liquid crystal cells to

produce 6000 x 8000-line graphics of high brightness, high contrast, and multiple colors (including a gray scale).

The display will be operable in either a raster or lineal mode with an instant erase capability. Display operation and interface with a host processor will be accomplished by a pair of integral MC68000 microprocessors.

Applications for this device include seismic data and passive

sonar presentations as well as cartographic editing and production functions.

Administration of the contract will be by the U.S. Air Force Systems Command, Rome Air Development Center, Griffiss Air Force Base, New York.

This state-of-the-art equipment is another first for the Company, under the direction of Robert Tsai, Manager of the Electro-Optics Department.

July, 1983

Librazette

Editor Nancy Laughlin
Published for the employees of The Singer Company, Librascope Division, Glendale, California 91201.

News, events and other interesting things . . .

Keeping Informed and In Shape . . .

A recent seminar at Librascope, *Everything You Ever Wanted to Know About Computers in 3 Short Hours*, attracted approximately 100 employees and their families. The seminar was only one of several held at Librascope for employees since the beginning of the year. Other seminars and classes have included: Crime Prevention, Cancer Education and Screening, and Physical Fitness classes.

Safety and Survival in an Earthquake is the topic of a meeting to be held for employees and their families on Tuesday, July 12, beginning at 6 pm in the California Room. What to do before, during and after an earthquake will be explained. The meeting will be conducted by the American Red Cross.

Another computer seminar, *How to Select a Personal Computer*, is scheduled for Thursday, July 21, in the California Room, from 6:00 to 8:30 pm.

To help employees get in shape for the summer, two 5-week *physical fitness classes* have been scheduled. The first class is currently underway, with the second 5-week session to begin on Monday, August 1. The co-ed fitness classes are held in the California Room on Mondays and Wednesdays, from 4:15 to 5:15 pm.

For information and/or reservations for any of the seminars and/or classes listed above, call the Employee Services Office, X-1210.

Employee Suggestions Help

Over 256 employee suggestions have been submitted over the past 18 months, reports Marion Daggett, administrator of the Company's Employee Suggestion Program. "Over 50% of those suggestions have been implemented, and gift certificates ranging from \$15 to \$100 have been awarded to those employees whose suggestions were accepted," said Daggett.

"Significant cost savings have been achieved through the implementation of a number of the suggestions submitted. However, the acceptance of suggestions for awards is not based on a cost savings factor alone. Gift certificates are also awarded for suggestions that contribute to improved working methods and/or working conditions which might result in making Librascope a better place in which to work."

Employee Suggestion Program (ESP) forms are located at all bulletin board locations throughout the plant.

Operations Improvement Committee Formed

Phil Toorvald, Vice President of Operations, and Herb Meyer, Director of Product Assurance have announced the formation of an Operations Improvement Committee (OIC), for problems and/or suggestions in Operations.

The purpose of the OIC committee is to improve communications, recognize efforts to improve Operations, participate in problem solving, improve quality and productivity and lost awareness, and to foster understanding between functions.

Ruby Goodrich, Production Project Manager, has been named Coordinator of the OIC committee. Along with the coordinator, members of the committee shall include the originator of the suggestion, the supervisor or manager of the departments involved, plus one or two knowledgeable persons from either or both departments.

The OIC committee will handle all suggestions directed to Operations by the Company's Employee Suggestion Program committee.

Blood Donor Response Up . . .

Over 90 employees responded to the Company blood drive held last month. "That's 20 more donors than we had at the drive held last October," said Nancy Laughlin, Manager, Employee Services.

According to Red Cross officials, the blood will be used to treat cancer patients, accident victims and children with blood diseases, among others in local hospitals.

Librascope has been part of the Red Cross blood drive program for the past 12 years, and in that time Librascope employees have donated over 1,300 pints of blood.



The need for blood is urgent and continual. Approximately 1,000 people in 240 hospitals in the Los Angeles and Orange County area need whole blood, components or derivatives every day. Therefore, 1,500 blood donors must be recruited every weekday and several hundred more on weekends, just to provide the blood needed.

The Red Cross conducts two blood drives at Librascope each year. The next drive is scheduled for October 28.

Employees Donate Piano

"It's not very often that someone approaches us and says, what would you like? It's like a dream come true," exclaimed Dori Hayashi, Director of Development at the Blind Childrens Center in Los Angeles. Dori is referring to the Company's offer to purchase an item for the Center with proceeds from the annual year-end charity drive held at Librascope.

"We certainly needed another piano at the Center, and thanks to our many friends at Librascope, we now have one," said Hayashi. "The children are having a great time with their new piano."

According to Dori, blind children have extraordinary music skills, and most importantly, it is a skill they can take with them into adulthood.

"Music bridges the gap between the sighted and the blind world," remarked Hayashi.

Funded through private donations only, the Blind Childrens Center receives no state or federal funding. It is the only agency of its kind in the United States that offers a diversified program of continuous education for blind and partially sighted children from birth to 7 years.

New System For Reliability Testing

A recent addition to the Company's special test equipment used for reliability testing, is the Unholtz-Dickie T1000 Vibration Test System. The system is housed in a new custom-built 600 square foot building, referred to as the "shaker shed", located behind Building 7.

"With this new system we are able to do in-house vibration testing on units three times the weight and size of what we were able to do before," said Chuck Nelson, Supervisor, Environmental Test Lab. "The new system also performs Random and Sine on Random, as well as Swept Sine vibration."

The Company maintains more than 5,500 pieces of special and commercial test equipment.



Test technicians, Eric Dodson (on right), and Scott Miller are shown securing an Attack Control Console, Mk 92, Mod 1, to the new 15,000 force pound Sine/Random vibration system.



Eric Dodson is shown verifying calibration prior to the start of a vibration test.



How We Look!

As the hot weather descends upon us, it is important to remember just what is and what is not the appropriate business apparel for work.

"Any apparel that is better suited for the beach or a summer resort is not considered appropriate business apparel at Librascope," reminds Frank Yapp, Vice President, Personnel and Organization.

"This includes shorts, strapless and/or backless sundresses, tank tops, jogging outfits, thongs, beach sandals, etc."

"We cannot stress enough the importance of how we appear to our many visitors. These visitors are customers and potential customers. In many instances they are at our plant for pre-contract award reviews. How we look, and that includes our work areas as well, and how we act, are all taken into consideration in awarding contracts," said Yapp.

For those who might be interested, there are several books available in the Librascope Library on proper business attire. These books may be checked out by employees. The Library is located in Building 1.

Another Feat For Radio Club



Librascope Radio Club members, left to right, Don Barton, Gary Rever, and club president, Maurice DeLongfield, revel over the completion of the extensive redesign and modifications completed by club members to the club's Repeater/Auto Patch System. The modifications involved converting the equipment from a simplex to a duplex operation by adding a Repeater to the system. "This conversion enables us to transmit on one frequency and receive on another frequency, and at greater distances," said DeLongfield.

The equipment, built in 1981 by club members, has now been placed back where it normally stands, on top of Oat Mountain, located in the northwest corner of the San Fernando Valley.

With the addition of the Repeater to the Auto Patch system, club members living in the Simi, Santa Clarita and San Fernando Valleys, as well as areas in Orange and San Diego counties, can now communicate via their ham radios.

The Auto Patch portion of the equipment allows members to place phone calls through their ham radios, thus providing an emergency communication service, if needed, for anyone living in the San Fernando and adjoining valleys, and for the Company as well.

"If normal telecommunication systems are down for whatever reason, we would still have the capability to make emergency calls out, through the Repeater/Auto Patch system via walkie-talkies or even our car phones," stated DeLongfield.

The club sponsors training sessions for employees interested in becoming amateur radio operators. Meetings are held the first Tuesday of the month, during lunch, in the Building 17 conference room. Club information can be obtained by calling Maurice DeLongfield, and/or club activity chairman, Warren Douglass.

Employees Earn Cash . . .

Employees can earn cash awards for bringing in new employees under the Company's on-going Employee Referral Program. The cash awards are based on the job classification filled by the referral.

"Over 96 employees have received cash awards ranging from \$25 to \$1,250, for bringing in new employees over the past year," reported Rusty Dunham, Manager, Employment.

"We currently have job openings for electronic assemblers, secretaries, machinists, inspectors, designers, and all levels of engineering, as well as other classifications," said Dunham.

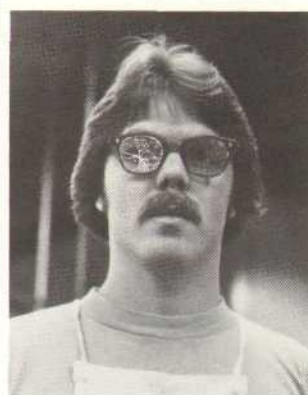
A complete and current listing of all job openings and respective awards is posted on bulletin boards throughout the plant. Further information may be obtained by calling the Employment Office, X-1204.

New Incentives Attracts Savers

Ninety new savers were added to the Savings Bond Program during the Company's yearly Bond Drive held last month. This brings the total number of Savings Bond participants to 396, or 27% of the total work force at Librascope.

Over thirty employees increased their weekly savings during the drive.

As an added incentive to savers this year, the Treasury Department announced a guaranteed minimum of 7.5% to protect buyers against steep declines in market rates. Savings Bonds are now able to keep pace with other investments.



IAN WINTER IS ONE LUCKY MACHINIST . . . thanks to the safety glasses he was wearing when a dowel pin he was hammering shattered and flew into his right eye. Ian, a Milling Machinist, said he had only recently begun to wear the safety glasses, and now he won't take them off during the work day. "I keep them on even when I'm walking around the machine shop," said Winter. "You never know when something may accidentally fly into your eye!" Safety glasses are provided by the Company through the Facilities department.

For Your Protection

Employee safety and protection in the workplace are always of paramount concern to Librascope management. In this vein, the Safety Department has been taking action recently to assure that employees are aware of any hazardous material which may be in their work area.

"All materials in use have been reviewed and the vendors of those materials which may be hazardous have been asked to provide Material Safety Data sheets for any hazardous item(s) being purchased for use at Librascope," said Bill Girouard, Manager, Industrial Engineering.

"These data sheets, containing safety measures, are posted in affected work areas, and also become part of the Manufacturing Planning Instructions for their use."

Safety is everyone's business and the Company policy is to make its business safe for everyone.

Librascope in Paris . . .



Ernest Pool, Vice President of Marketing, with the Librascope exhibit at the Paris Air Show.

Marketing personnel attended the Paris Air Show in June to promote Librascope products before an international audience numbering in the hundreds of thousands of persons.

Librascope shared a large exhibit area with Kearfott, Link Flight Simulation, and Link Simulation Systems divisions.

Held every two years, the show, which is sponsored by the French government, is the largest of its kind, and represents an ideal locale for Librascope personnel to meet with international representatives of all phases of the defense business.

Take
stock
in America.



promotions



Royal Jackson



Constance Valentine



Brenda Emmons



Robert McDonald



Eugene Thomson



Nina Bodami



George Hayes



James Lloyd



Zev Palmor



Tripon Canamaso



Phillip Moon

Royal Jackson, from Senior Electronic Engineering Associate, to Supervisor, Test Equipment Calibration.

Constance Valentine, from Dept. Clerk to Material Order Processor.

Brenda Emmons, from Dept. Clerk to Material Order Processor.

Robert McDonald, from Support Engineer, to Supervisor, Provisioning Technology.

Eugene Thomson, from Management Systems Development Specialist to Supervisor, Management Technology, Protective Packaging and Material Support.

Nina Bodami, from Procurement FollowUp to Electronic Buyer.

George Hayes, from Custodian to Mail Services & Records Management Coordinator.

James Lloyd, from Final Assembler to Supervisor, Assembly.

Zev Palmor, from Associate Engineer to Engineer.

Tripon Canamaso, from Component Technician to Sr. Electronic Technician.

Phillip Moon, from Shipping & Receiving Clerk to Operations Customer Service Coordinator.

Mark Stephens, from Manufacturing Engineer to Engineer.

Rachelle Bryant, from Receiving FollowUp Coordinator to Engineering Storekeeper.

Denise Amaral, from Technical Programmer to Programming Systems Specialist.

Seymour Lieberman, from Senior Engineer to Staff Engineer.

Jeffrey Petersen, from Engineer to Sr. Engineer.

Kenneth Poole, from Technical Programmer to Programming Systems Specialist.

Mark Seamands, from Electronic Technician Senior, to Electronic Engineering Associate.

Benjamin Slonimsky, from Sr. Engineer to Staff Engineer.

Margaret Crawford, from Sr. Accounts Payable Clerk to Accountant, Associate.

Roger Hernandez, from Parts Lister to Timekeeper.

David Desautels, from Technical Programmer to Programming Systems Specialist.

Daniel Nourie, from Automated Graphics Operator Trainee to Automated Graphics Operator Senior.

Robert Peterson, from Designer to Sr. Designer.

Craig Abernethy, from Electronic Technician Trainee to Electronic Technician.

Jeffrey Tkac, from Parts Lister to Computer Console Operator Trainee.

Michael Tucker, from Component Technician to Sr. Electronic Technician.

Bruce Brown, from Engineer to Sr. Engineer.

Betty Kent, from Sr. Accounting Clerk to Group Leader.

Donnell Hagan, from General Clerk to Manufacturing Data Analyst Trainee.

Annie Rowe, from Manufacturing Data Analyst to Methods Analyst Electrical Trainee.

Thomas Daly, from Calibration Technician to Electronic Technician.

Linda Spencer, from Dept. Clerk to Government Bill of Lading Clerk.

Oscar Castro, from Industrial Artist to Industrial Artist Senior.

Joseph Sanfilippo, from Engineer to Sr. Engineer.

James Swanson, from Senior Designer to Design Specialist.

Betty Cardona, from Secretary to Quality Control Technician.

Greg Birkel, from Technical Illustrator Assistant to Technical Illustrator.

Scott Harding, from Engineer to Sr. Engineer.

Elda Jamieson, from Accounts Payable Clerk to Senior Accounts Payable Clerk.

Scott Newstrom, from Engineering Drafter Trainee to Engineering Drafter.

Terence Wahlberg, from Supervisor Outside Manufacturing to Manager, Procurement.

Nicholas Thomas, from Design Drafter to Installation Engineer.

retirements



Florence Mencarelli, 22 yrs., Logistics



Roy Brown (top left), 23 yrs., Commercial Art

Kathy Milano (top right), 22 yrs., Scheduling and Records Control

Andy Huot, 29 yrs., Shipboard Systems Circuit Design

Toby Tobias, Purchasing

Libravets



Robert Geno
30 Years
Program
Management



Charles White
30 Years
Data Processing



Earle Tempesta
30 Years
Purchasing



Jim Gilliam
25 Years
Operations



Curt Bullard
25 Years
Functional Test



Lenora Vela
25 Years
Sub Assembly
Wiring



Yoneko Takimoto
25 Years
Final Assembly



Ed Lyneis
25 Years
Purchasing



Victor LaCasella
25 Years
Model Shop



David Gardner
25 Years
Systems Analysis



Ted Bass
25 Years
Circuit Board
Plating & Fab.



Phil DeGrazio
25 Years
Value/Liaison
Engineering



Jess Pack
25 Years
Logistics



Jack Naimoli
25 Years
Circuit Board
Plating & Fab.



Laura MacQuarrie
25 Years
Receiving
Inspection



Albin Lis
25 Years
Circuit Board
Assembly



Art Levine
25 Years
Product Design



Jack Bertalot
25 Years
Writing & Editing



Howard Stahle
15 Years
Logic Design



Art Angel
15 Years
Marketing



Bill Dunaway
15 Years
Office Supplies



Patricia Enos
15 Years
Printing &
Reproduction



Ronald Bush
15 Years
Field Service



Stan Bucklein
15 Years
Quality Assurance
Inspection

Not Pictured:

30 Years - Charlie Cardea.

25 Years - Joseph Coltrara, Tina DeSantis, Nelda Arata, Delia Albert, James Morris, Donald Mann, James Vivona, Rod Reynolds, Mark Ferry, Lillian Houchin, Manuel Gil, Dee Haynie, Daniel Hochmann, Art Donofrio.

20 Years - Homer Ezell, Donald Sakamoto.

15 Years - Mike Aghazadeh.

More Libravets:

10 Years - John Gustafson, Collen Brimm, Akito Maehara, Barbara Ellis, Camell Birch, J.D. Brown, Edward Ritts.

5 Years - Carl Jappe, Rosemary Zacharias, Steven Papkey, Michael Ford, Phillip Friedemann, Anita Hagan, Alexander Riddell, Janet Brazil, Lynn Docterman, Arthur Ishihara, Bob Maas, Walter Baum, Carolina Wilson, Grace Kleinberg, Phil Toorvald.



Libravet Phil DeGrazio, receives his 25-year award from Jerry Dietz, Vice President and Chief Engineer. DeGrazio selected a Seiko Quartz mantel clock from a beautiful selection of new 25 year awards which includes custom designed rings and watches.



Tina DeSantis accepts her 25-year award from Phil Toorvald, Vice President of Operations. The Company honored sixty 25-year Libravets at awards ceremonies held in May.