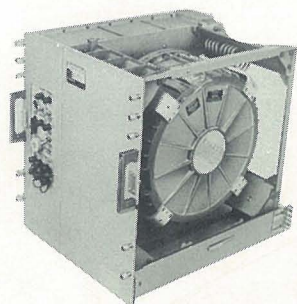


RD-433 Early Delivery Reaps Bonus

The delivery of twenty-four (24) RD-433 Militarized Mass Memory Systems six months earlier than the contract schedule has resulted in a \$288,000 bonus for Librascope, under the terms of a contract with the Space and Naval Warfare Systems Command Headquarters (SPAWAR).



The Company was awarded the contract for approximately \$10 million last year for eighty-one (81) RD-433 units to be used in the U. S. Navy TACINTEL and NAVMACS(V) shipboard satellite communications systems. Don Barton is Program Manager for this contract, under the Advanced Programs and Proprietary Products Group headed by Carl Sorensen, Manager.

"The most significant factor in attaining this goal was the outstanding co-operation and teamwork between Engineering, Manufacturing, Quality Assurance, and all departments involved in this contract," said Sorensen.

More RD-433 Contracts...

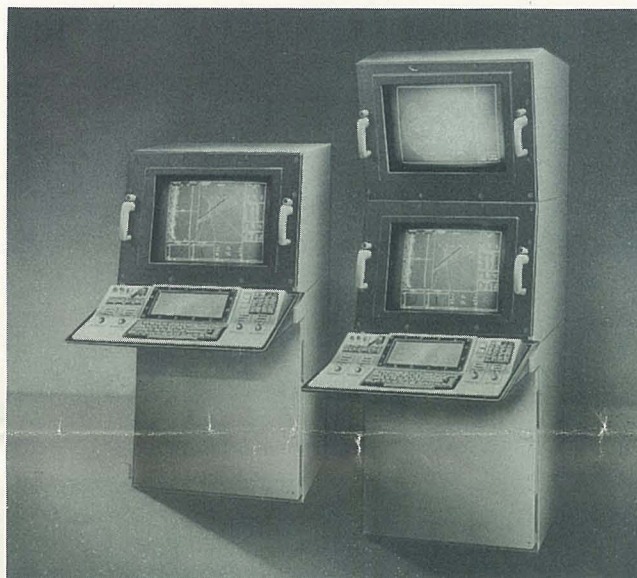
- ★ A contract modification for a major Value Engineering Change (VECR) has been received which calls for the installation of solid-state (RAM-disk) memories on the remaining fifty-seven (57) RD-433 units under contract for SPAWAR. The solid-state memories will replace the current rotating disc memories.
- ★ A contract modification has been received for converting an order for thirty-three (33) L107MB spares to RAMdisks.
- ★ Contracts for a total of thirty-two (32) RD-433 units have been received from Ingalls Shipbuilding and Bath Iron Works Corp. The units are required for the AEGIS Cruisers CG-66 through 73, being built for the U. S. Navy by these two shipyards.
- ★ A contract has been received from TRACOR for RD-433 units for the Guided Missile Destroyers DDG-52 and DDG-53.

Librascope's Advanced Color Workstation Goes to Washington

Librascope's Advanced Color Workstation, currently in development for the AN/BSY-2 program, was transported to Washington, D.C. for demonstration to the U. S. Navy Submarine, DARPA and DOD personnel. The workstation and supporting peripheral equipment was staged at the Presearch Inc. facility in the Hayes building in Arlington, Virginia.

The briefings and equipment demonstrations were conducted by Librascope's Pat McCormick, with Andy Gardner providing the technical equipment set-up and support.

Librascope Marketing Department representatives Grant Corcoran and Dan Englehardt, reported that the U. S. Navy Submarine and DARPA attendees were very impressed with the performance of the equipment, and the equipment's ability to incorporate capability enhancements in the future. Since the demonstrations, the Company has received insights



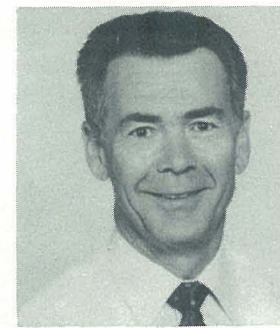
into future requirements for the submarine systems being developed, such as non-penetrating optronic periscopes, ship control, unmanned vehicles, and wire-guided missiles.

Prominent attendees at the workstation briefings and demonstrations included: Assistant Secretaries

of the Navy J. Keane and Dr. N. Brown; Deputy Chief of Naval Operations, Rear Admiral (RADM) T. Munnick, RADM G. Curtis, RADM T. Evans, and RADM M. Firebaugh.

New Engineering Management...

Edward J. Arnold has joined Librascope as Director, Product Engineering. Arnold will be responsible for hardware design and shop liaison for Librascope products, reporting to Jerry Deitz, Vice President Engineering.



Edward J. Arnold

Arnold comes to Librascope from Archieve Corporation in Costa Mesa where he was Director of Program Management. Prior to that assignment he was Vice President, Operations and Applied Engineering for NAVCOM Systems Division of Gould Defense Electronics, Inc.

A graduate of Redlands University with an undergraduate degree in mathematics, Arnold has over 25 years of experience in the aerospace business with senior positions in engineering, marketing, and program management.

J. Larry Anderson joined Librascope in August as Director Systems Engineering. Anderson will be responsible for the management of Librascope's Systems Engineering which includes advanced programs.

Anderson was previously with Hughes Aircraft Co. where he was Technical Director of a major anti-submarine warfare (ASW) program. Prior to his employment at Hughes, Anderson was Engineering Manager of Ocean Systems Engineering at Aerojet Electro Systems.

Anderson has over 22 years experience in the aerospace business including ASW Combat Systems, Arctic ASW Mission Analysis, Mk 48 Torpedo Advanced Capability, Surface Ship Torpedo Defense, countermeasures and acoustic sensors, with senior positions in engineering, research and development and program management.



J. Larry Anderson

★ ★ ★ Divestiture Update ★ ★ ★

Subsequent to its acquisition, Singer in early May began a divestiture program under which it has sold eight businesses for approximately \$2 billion. That amount exceeds the total acquisition cost, including the company's common stock, existing Singer debt, interest expense to finance the transaction and other expenses.

On October 4, 1988, the Singer Company announced that it had essentially completed its divestiture program with the sale of Kearfott Division to Astronautics Corporation of America.

Along with this announcement was a statement by Paul A. Bilzerian, Singer Chairman and Chief Executive Officer:

"Our plan from the outset of the acquisition was to retain Singer businesses with approximately \$400 million of annual revenues. Although we had originally intended to keep the company's commercial operations, we are now pleased to be retaining Librascope, Link-Miles, and Industrial Simulation. They are leaders in their technologies and we are committed to maintaining and extending that leadership. In the future, we may also make acquisitions that are complementary to those three businesses."

"With regard to the SimuFlite training business, we have filed under the Hart-Scott-Rodino act asking permission to acquire over 50 percent of Flight Safety International. Following the ruling on that application, we will determine the course we plan to take with respect to SimuFlite."

On October 12, the Singer Company announced the reorganization of its simulator manufacturing businesses under Link-Miles, which will consist of two autonomous operating companies, one in the United States and the other in the United Kingdom.

The U. K. company, Link-Miles Limited, located in Lancing, West Sussex, England, is involved in the military flight, airline visual, naval, and ground simulation businesses worldwide.

The U. S. operating company will combine the airline simulation activities of the Link-Miles International Simulation Corporation based in Binghamton, New York and the industrial process and power plant business of the Industrial Simulation Corporation located in Columbia, Maryland.

SimuFlite is headquartered at the Dallas-Fort Worth International Airport where the company conducts integrated training programs for business and commercial aircraft pilots.

The principal operations being retained by the Singer Company are:

- * Librascope
- * SimuFlite
- * Link-Miles
- U.K. — Link Miles Ltd., England
- U.S. — International Simulation Corp., N.Y. and Industrial Simulation Corp., Md.

President's Message...

I believe that the announcement by Mr. Bilzerian regarding the completion of his Singer divestiture program is of real significance to us at Librascope. In brief, his intention to retain Librascope means that we have come to the end of the various business and personal uncertainties that have unavoidably accompanied the Singer divestiture process.

Our on-going situation now is quite clear. Librascope definitely is going to remain part of the Singer Company which, however, has become a considerably different company from the Singer of last year. While the new Singer Company is somewhat smaller, there has been a substantial improvement in its overall financial stability. There no longer will be a large Singer corporate structure. This means that corporate approvals and decision making should be more rapid and that the amount of corporate costs charged to Librascope should be decreased. These are major competitive advantages.

It is important to recognize that Librascope's excellent performance record was a key factor in the Singer decision to retain rather than divest our organization.

I believe that, under the new Singer management, we at Librascope will have considerably greater autonomy. In a very real sense, how well we do in the future is up to us. Due to the new work that we have won during the past year, we presently have an enviable position in our industry. I am expecting that each individual employee will continue to work hard to extend this excellent position into the future. We have a good opportunity in front of us -- let's take advantage of it.

New Rideshare Program For Librascope

Even though Librascope has encouraged car-pooling, or 'ridesharing' among employees since 1971, a regulation recently adopted by the South Coast Air Quality Management District (SCAQMD) will mean that the Company will be implementing an all-new 'rideshare' program shortly.

The newly adopted SCAQMD Regulation XV requires that all employers with 100 or more employees in Los Angeles, Riverside, San Bernardino and Orange Counties develop and implement 'employee commute management programs'.

The purpose of the new regulation is to improve air quality in the South Coast Air Basin by reducing emissions from vehicles used for commuting between home and the worksite.

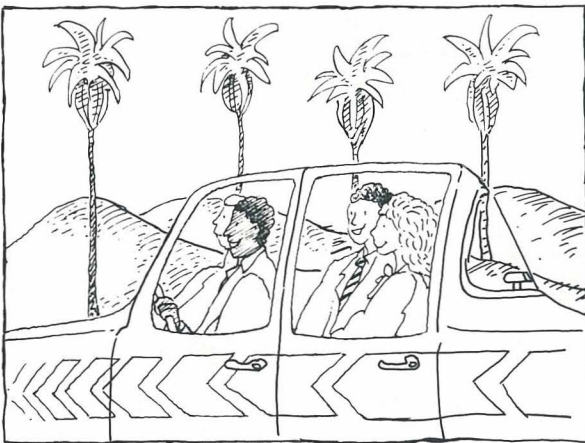
The target goal of Regulation XV is to raise the Average Vehicle Ridership (AVR) of commuters at participating employer worksites in the South Coast Air Basin from an average 1.13 occupants per vehicle to 1.5.

Under the new regulation all participating employers are required to submit trip reduction plans for their target goal to the SCAQMD within an appointed time, and to establish an Employee Transportation Coordinator (ETC) within the Company to implement and be responsible for the program. The ETC must be certified by attending an approved SCAQMD training program. Named as Employee Transportation Coordinators for Librascope are Annabelle Luther, Employment Department, and Gary Darby, Security.

"A survey of employee cars parked at Librascope indicates that we currently do not meet the SCAQMD's requirement of 1.5 persons per vehicle," said Frank Yapp, Vice President, Human Resources. "In order to conform with this new Regulation, we are required to reduce the number of vehicles parked at Librascope, by promoting ridesharing and/or the use of alternate means of transportation, including

public transportation, and for those who live within a close proximity of Librascope, bicycling or even walking."

Annabelle Luther, Librascope ETC, reports that employees will be receiving full details about the ridesharing program within the next few weeks. "The program is voluntary; however, Librascope must still meet the AVR of 1.5 persons per vehicle," said Luther. "Chances are that those who participate will appreciate the benefits of ridesharing, namely, a less stressful commute and lowered commuting costs."



Librascope Rideshare Day Scheduled.....

Employees are encouraged to "give ridesharing a try" on Wednesday, November 9, when the Company will sponsor 'Librascope Rideshare Day'. All occupants of vehicles with 2 or more persons will be given a coupon for free coffee and donuts that day. Also five \$50 U. S. Savings Bonds will be awarded at a drawing for all rideshare participants.

Information regarding 'Librascope Rideshare Day' will be distributed to employees during the week of October 24.

Company Picnic GREAT FUN...

Librascope employees, retirees and their families had a 'rollicking' good time at the company picnic held recently at the picturesque Paramount Ranch in Agoura. The park is actually an authentic western movie set formerly used by Paramount Studios.

The day began for everyone with a hayride into the park. What followed can best be described by viewing the pictures on the opposite page. (Photos courtesy of Mike Green and Maurice DeLongfield.)

The entertainment for the day included games, games, and more games, with "Barnaby the Clown" directing the action — and we mean action! Barnaby



kept everyone involved in the on-going fun, with bingo, lawn games, dance contests, and some pretty funny antics, jokes, prizes, etc.

There was a "very messy" pie eating contest, a "very wet" bucket brigade for the ladies, and a "very ugly" legs contest with male contestants donning paper bags over their heads before the judging — we would rather not name the winner of this contest!

Live music was provided by "The Chris Banta Quintet" and "The Verdugo Swing Society," with our own John Gustafson on sax. There was even square dancing with every age participating.

The little 'tykes' rode ponies, had their faces painted, produced works of art in a coloring contest, and 'wore themselves out' in a giant inflatable bounce-a-bout.

An 'all you can eat' country barbecue was served, along with a 'make your own sundae' bar, which the bees enjoyed also! And to top that off, hot dogs, soft drinks and popcorn were available all day long.

Playing at 'working', were picnic helpers Ken and Sue Mandeville, Brian Megee, Jack Naimoli and Jeff Nelson. Anna Ponka, who usually dons her clown suit and entertains everyone else, spent the day entertaining herself — entered every contest and even



Anna Ponka, 'sans costume', with son David, and daughter Debbie.

won a prize! Rumor has it that Jose Feliciano 'hugged' the dunk tank, and that one woman won 'thousands' of dollars in 'funny money' in the casino games, and has not been seen since! "We were having so much fun we really didn't want to go home," said Bill Van Antwerp.

Retirees Wally and Juanita Robinson picked the coolest spot in the park under the 'old oak trees', and Howard Miller took home a door prize ... or two!

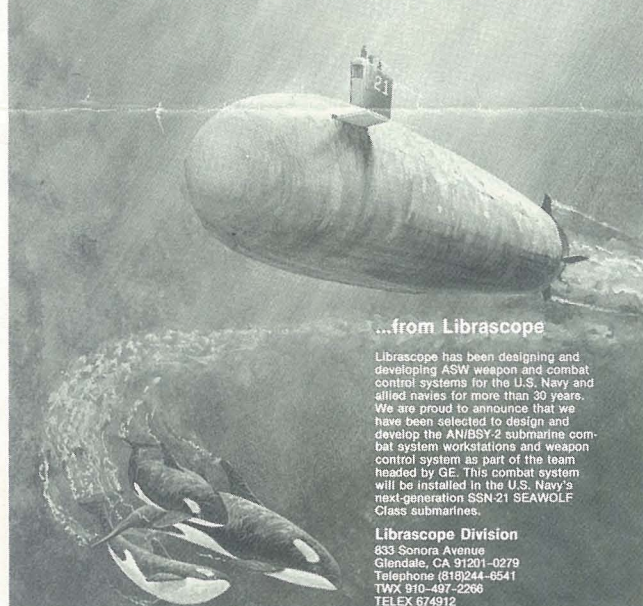
Company President Walter Picker and wife Ann joined in the fun, and all in all, it really was a special day — certainly one to remember!

P.S. We are looking for anyone who took video pictures at the picnic (for our scrapbook!). Please contact the Employee Services Office.



AND THE WINNERS ARE.....Picnic door prize winners were — 1st place winner, Lang Pham, Sr. Designer, won \$300 in gift certificates to the Glendale Galleria, and 2nd place winner Lylam Ayon, Final Assembly, won The Beatles dolls (a collector's set)!

Technology for Tomorrow's Threats AN/BSY-2 Combat Control Systems For SSN-21 SEAWOLF Submarines



...from Librascope

Librascope has been designing and developing ASW weapon and combat control systems for the U.S. Navy and allied navies for more than 30 years. We are proud to announce that we have been selected to design and develop the AN/BSY-2 submarine combat system workstations and weapon control system as part of the team headed by GE. This combat system will be installed in the U.S. Navy's next-generation SSN-21 SEAWOLF Class submarines.

Librascope Division
833 Sonoma Avenue
Glendale, CA 91201-0279
Telephone (818)244-6541
TWX 910-497-2266
TELEX 674912

Pictured above is the Librascope ad used to announce the contract award to Librascope for the design and development of the AN/BSY-2 submarine combat system displays and weapon control system. The ad was produced by the Librascope Publications Department, with artwork by Mike Green, Commercial Art Department. It appeared in *Seapower* and U. S. Naval Institute Proceedings magazine.



AUSA Party Offers Big Savings on Disneyland Tickets

Librascope has again been invited to participate in special discount days at Disneyland sponsored by the Association of United States Army (AUSA). The funds raised by AUSA are used to support the Army's ROTC program.

This year the AUSA Disneyland party will be held on Saturdays and Sundays — October 29 & 30, and on November 6, 12, 13, 20 & 27, from 9 am to midnight. Tickets are on sale now in the Employee Services Office for \$14 for all ages. (Adult tickets are regularly \$21.50, and children at \$16.50.) The price also includes free parking which is normally \$3.

Guests of the United States Army Party will be able to enjoy Disneyland's "State Fair" celebration which features all the fun of 50 state fairs rolled into one. "State Fair" features the "Come to the Fair" parade, "Pigmania," which are actual pig races at Big Thunder Ranch in Disneyland, daredevil acts and midway games, to name a few.

Tasty snacks always abound at state fairs and food booths offering a wide range of delicious items will be located throughout the Park. Displays of crafts and agricultural technology will add to the fair experience. Prize-winning items from throughout the country will be showcased in the Town Square Firehouse.

Involuntary Smoking — Health Risks for Nonsmokers

Since the 1964 publication of the first Surgeon General's Report, "The Health Consequences of Smoking", the casual connection between active smoking and death and disease has become irrefutable. By 1985, there were 17 Surgeon General's Reports and 50,000 studies dealing with the effects of cigarette smoking on the smoker. The documentation is one of the most exhaustive in medical history.

Unlike its 17 predecessors, the 1986 Surgeon General's Report had a new focus, "The Health Consequences of Involuntary Smoking". This report discussed the effects of cigarette smoke on nonsmokers, examining "the evidence that even the lower exposure to smoke received by the nonsmoker carries with it a health risk."

The term 'involuntary smoking' was used because it "denotes that for many nonsmokers, exposure to environmental tobacco smoke is the result of an unavoidable consequence of being in proximity to smokers". Even though smokers may be addicted, they engage in a voluntary behavior; they have chosen to smoke. Nearby nonsmokers may be forced to inhale smoke-polluted air against their wishes, thereby smoking involuntarily.

The Report presented evidence that the chemical composition of the smoke inhaled directly by the smoker (mainstream smoke) is qualitatively similar to the smoke emitted from the burning end between puffs (sidestream smoke).

Much of the same evidence was examined in depth in a 1986 report issued by the National Academy of Sciences (NAS), which stated "Passive smokers are exposed to trace amounts of toxic agents including tumor initiators, tumor promoters, carcinogens, and organ-specific carcinogens when inhaling environmental tobacco smoke."

The conclusions of the 1986 Surgeon General's Report, similar to the findings of the NAS study, were clear: involuntary smoking, or passive smoking, is a cause of disease, including lung cancer, in healthy nonsmokers.

According to the American Lung Association, laboratory analyses of cigarette smoke show that, per cigarette, there is twice as much tar and nicotine in sidestream as in mainstream smoke. There is almost three times as much carbon monoxide, which robs the blood of oxygen. Different studies show from 20 to 100 times as much of the highly cancer-causing substances N-nitrosamines in sidestream smoke; also 30 times as much zinc and nickel, up to 50 times more formaldehyde, and up to 170 times as much ammonia.

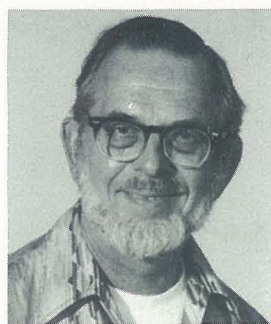
Before the nonsmoker inhales sidestream smoke, some of the high concentrations are diluted in the surrounding air. The closer the exposure, and the longer the periods of exposure, the greater the risk to the nonsmoker.



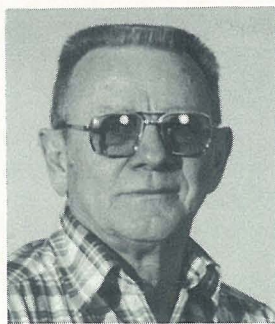
libravets *thru October*



Gary McHugh
30 Years
Data Processing



Merten Wandrey
30 Years
Source Control



Bernard Battistessa
30 Years
Model Shop



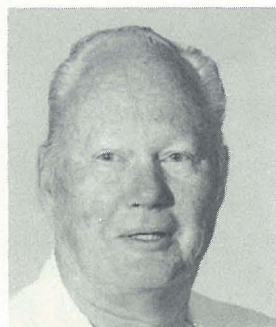
Norma Babcock
30 Years
Final Assembly



Ray Youniacutt
30 Years
Machining



Norman Bose
30 Years
Advanced Programs



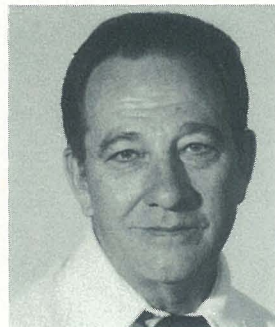
Arnold Peters
30 Years
Engineering Administration



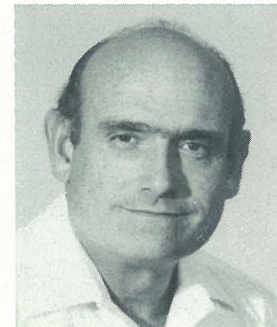
Charles Rooks
30 Years
Electronic Design



Jim Holmes
30 Years
Scheduling & Records Control



Tony Schneider
30 Years
Parts Listing & Tool Control



George Webb
30 Years
Test Engineering Programming



Dixie Robertson
30 Years
Adjusting, Magnetics

MORE LIBRAVETS:

20 Years — Pat Dousette, Willard Van Antwerp, Charles Salazar, Frances Radunz, Joseph Sanfilippo

15 Years — Claudette Kupresan, Kenneth Kelley, George Miller, Jack Kite

10 Years — Gary Pook, Velma McCarty, Ernest Pool, Jr., Jose Nieves, Jonathan Patten, Margaret Kontos, John Cuevas, Aaron Bowers, Terry Rountree

retirements



Paul Porco, 39 years, Manufacturing Engineering, receives a 'special' farewell from fellow workers.



Florence Nuccio, center, 11 years, Finance Department, with well-wishers, Hazel Weeks, left, and Elda Jamieson.



Eugene Steen, left, 12 years, Electronic Design, with co-worker, Peter Fountas.

Retirees not pictured: Robert Bills, Field Engineering; Margaret Crawford, Finance Department; and Bill McGlaughlin, Field Service.

Club Corner

Amateur Radio Club — Meetings are held during lunch on the first Tuesday of every month in Bldg. 8. The club maintains a repeater antenna with an auto patch for emergencies, in the Santa Susana mountain area. For club information, call Maurice Delongfield, Ext. 1813.

Basketball — Sign ups for the Librascope Men's Basketball League will begin the first of November. Anyone wishing to play should contact Bill Dunaway, Ext. 1511.

Bible Club — Bible discussion groups (non-denominational) meet every Tuesday, Wednesday and Thursday during the lunch hour. For information regarding the Tuesday/Thursday group in Bldg. 17 contact Angel Rodriguez, Ext. 1620. Contact Bill Van Antwerp, Ext. 1447 for the Wednesday group in Bldg. 2.

Bowling — Fall leagues were formed in September and will run through April. There are some openings on Tuesday nights at 6:30 pm. Contact Ron Maas, Ext. 1748.

Camera Club — Meets during lunch the second and fourth Tuesday of every month in Bldg. 8. Field trips are planned and monthly awards are given for best slides and/or prints. For information, call Vic Vennari, Ext. 1112.

Computer Club — Meets after work on the third Wednesday of every month in Bldg. 8. The club maintains a library of software and reference material in the Engineering Library. For club information, contact George Webb, Ext. 2020.

Golf Club — The club has three golf tournaments scheduled for the remainder of the year — November 5 at Azusa Greens; November 19 at Paradise Knolls in Riverside (annual Kearfott/Librascope tournament); and on December 3 at Brookside in Pasadena (with an awards banquet). The club has planned twelve golf tournaments for 1989. To play in any of the remaining tournaments and/or membership information, call Keith Weideman, Ext. 1142.

Racquetball Club — The Librascope Racquetball Club is currently using the Sherman Oaks Health Club facility, with membership including full use of club facilities. Several racquetball tournaments are being planned for 1989, and a membership drive is scheduled for next month. For information call Barry Commons, Ext. 1218.

Big Savings on Amusement Park Tickets

The following tickets are on sale now in the Employee Services Office:

Disneyland . . . \$14. (reg. \$21.50)
For: Oct. 29, 30; Nov. 6, 7, 12, 13, 20, 27

Magic Mtn....\$8.95 (reg. \$20)
For Oct. 22, 23, 29, 30

Sea World . . . \$12. adults (reg. \$19.95)
(All year) \$8. child (reg. \$14.95)

*** Ticket sales during lunch hour only.**



Ernest Dorazio from Supervisor, Design (Newport Office) to Manager, Field Engineering; **Douglas Dunnet** from Project Administrator to Staff Assistant; **Richard Tilden**, Supervisor, Project Planning to Manager, Project Administration; **William Flynn** from Sr. Engineer to Staff Engineer; **Donnelle Hagan** from General Clerk to Property Coordinator; **Robert Duggins** from Supervisor, Assembly to Manufacturing Engineer; **Lori Eliason** from Budget/Financial Analyst to Supervisor, Billing; **Juan Batista** from Supervisor, Manufacturing Engineering to Manager, Industrial Engineering; **Keith Weideman** from Supervisor, Manufacturing Engineering to Manager, Production Engineering.



Librascope Teams League Champions



The Librascope Launchers, C Major Division Champions, top row, from left, Mike Ossman, Ken Mandeville, Dan Gowanlock, Joel Rooks, Al Peppi; kneeling, from left, Aaron Bowers, Jim Berry, Dave Kusuda, Kelly Ross, and Chris Gil.

The Librascope 'Launchers' defeated Fidelity Federal 'Express', 8-0, in an exciting C Major Championship playoff game between the first and second round winners in the Glendale Fast Pitch Softball League. This resulted in a C Championship playoff game between 'Express' and the Librascope 'Bruise Brothers'.

The 'Bruise Brothers' handily defeated the 'Express' team, 5-2, giving the Librascope team the C Championship win. The 'Bruise Brothers' team includes: Rick Meador, Steve Patton, Greg Fletcher, Dave Ramos, Rob Ziegler, Ray Castro, Ron Maas, Greg Gil, Melesio Velasquez, Dwight Temple, Ernie Ikner, Steve Shinkle, and Alan Nelson.