

7 acoustic shells purchased for use at Center theater

Theater-goers attending live performances in the Center theater in the future will have reason to be grateful for a cooperative effort between the Indian Wells Valley Concert Association and the Recreation Branch of Special Services Division.

These two groups have jointly purchased a set of seven acoustic shells that are for use on stage in the theater to reflect sound to audiences, especially sounds that are not otherwise amplified.

For the past three years the Concert Association has been borrowing a set of acoustic shells from Cerro Coso Community College prior to each of the Association's concerts.

Each time volunteers have had to move the units to NWC from the college and then return them. These moves back and forth have been hard on the shells, and almost equally hard on the volunteers. Each move, to be made safely, has been very time-consuming.

The IWV Concert Association has had two highly profitable years; its directors reasoned that expending \$2,100 towards the cost of acquiring such shells would be in order. Bob Huey, head of the Recreation Branch, was contacted, and he was authorized by the Recreation Council to add another \$1,600 to that amount to make the purchase.

Now that the shells are fully assembled they have become the property of the Navy for the benefit of any group that has use of the Center theater for a performance.

Gem, Mineral Show planned Nov. 4-5 at Community Center

Plans are nearing completion for the Indian Wells Gem and Mineral Society's 23rd annual Gem and Mineral Show.

This year the show will be held at the Community Center from 10 a.m. to 10 p.m. on Saturday, Nov. 3, and from 10 a.m. to 5 p.m. on Sunday, Nov. 4.

A large display of gems, minerals and fossils from the local area and also collected elsewhere is planned, according to Dick Fulmer, the show's publicity chairman.

There will be working exhibits on silversmithing, demonstrations of how to cut spheres from rocks, and a display of gem faceting. In addition, Walter Beck will be here from Randsburg to show people how a dry washer can be used to get gold.

Also included among the plans for this two-day event are guided tours to nearby gem and mineral collecting areas.

There will be no charge for admission to the show or for participation in the tours.

Virginia Boyd is president of the Indian Wells Gem and Mineral Society, and this year's show chairman is Frank Campanaro.

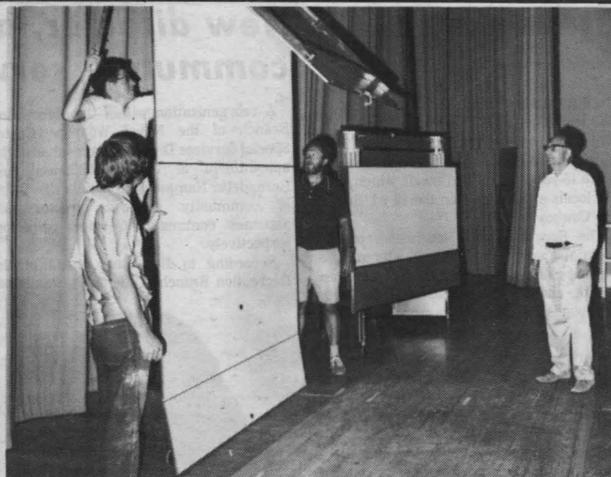
Col. Smith to speak at Navy League dinner

A talk about the modern day Marine Corps will be presented at the next meeting of the Indian Wells Valley Council of the Navy League, which is coming up on the evening of Thursday, Nov. 8, at the Chief Petty Officers' Club.

The speaker will be Col. Erin D. Smith, Marine Corps Liaison Officer at the Naval Weapons Center, who reported here for his present assignment last August. This is Col. Smith's second tour of duty at China Lake.

His subject for the Nov. 8 Navy League meeting will tie in with the 204th birthday of the Marine Corps on Nov. 10, Col. Smith said.

A social hour starting at 6:30 will precede dinner, and the talk by Col. Smith will round out the evening. Cost of the dinner is \$6 per person, and reservations, which are due no later than Sunday, Nov. 4, can be made by calling either 446-5763, 446-5914, or 377-4276.



GETTING IT TOGETHER — Raising an acoustic shell are (l. to r.) Alan Paulsen, Carl Morley, and Gene Younklin, while Carroll Evans watches. Volunteers from the Concert Association assembled seven of these shells on stage at the Center theater that were used for the first time during Wednesday night's concert. During performances the shells will be placed in an arc around the back of the stage. Following performances they can be rolled out of the way and stored backstage.

Renaissance Arts Festival scheduled tomorrow to benefit Sunshine House

The fourth annual Renaissance Arts Festival, sponsored by Sunshine House, local activity center for the handicapped, will be held tomorrow, from 10 a.m. to 4:30 p.m., at Cerro Coso Community College.

This colorful event is being staged for the two-fold purpose of raising money needed to help carry on the program at Sunshine House and acquainting the general public with who is involved and what is being done at Sunshine House.

Featured will be a colorful melange of fine arts and crafts that will be offered for sale, continuous entertainment, and an ample variety of food booths where homemade baked goods and refreshments will tempt the appetites of those attending this gala affair.

The student center at Cerro Coso College, with its high ceilings and abundant natural light, will house the marketplace for local artists and artisans who will be displaying and offering for sale their handcrafted ware — including ceramics, paintings, weavings, and a variety of other items.

Those who display, sell and demonstrate their products will donate a percentage of their profits to Sunshine House, which has expanded its program from an activity center to a work-oriented place for handicapped adults.

The terrace and green that adjoins the student center and overlooks the Indian Wells Valley will provide additional space

for many other activities that are planned throughout the day.

The list of entertainers includes Mill Mollick, juggler; Caren Diebold, belly dancer; Dewey Hosevar, guitarist; wandering minstrels Alan Kubik and Elena Vitale, a country and western musical group, and a fortune teller.

Pat Schwarzbach, as queen, and her husband, Ralph, will preside over the Renaissance Arts Festival. They will add a touch of drama by enacting scenes from Shakespeare — joined by their son, Bob, and daughter, Sandee. Costumed Renaissance court figures will wander through the crowds before the grand procession, which will take place at 11:15 a.m., and there will be prizes for the best costumes.

Among the many special events planned are a hot air balloon demonstration and a natural foods cooking contest, both of which are scheduled to start at 11 a.m. Beginning at 12 noon, auctioneer Bob Preul will go into action as he seeks bids on the purchase of items donated by local area residents and gift certificates from business places in the Indian Wells Valley area.

This day of gaiety and general jubilation is planned to appeal to all members of the family. Scheduled with children in mind are relay, hoop-rol, three-legged, and wheelbarrow races; an apple bob; fishing booth; ring and bean bag toss games; and a children's garden.



CONTRIBUTIONS WELCOME — Members of the Military Officers' Wives Club are busy collecting "white elephants" that will be offered for sale at their booth during the annual Holiday Bazaar to be staged by the Women's Auxiliary of the Commissioned Officers Mess on Nov. 9 and 10 at the Community Center. The money that is raised by the Military Officers' Wives will be used to meet needs within the families of military personnel. Persons interested in donating items for sale at the "white elephant" booth can arrange to have their contributions picked up by calling either Elaine Adams at 446-5046, or Isabelle Gaines at 446-7043. Shown loading some of the items already collected into a van are (l.-r.) Barbara Stephenson, Mrs. Gaines and Darlene Killoran. — Photo by Ron Allen



Tonight all ghosts and goblins are invited to come out of hiding and join in the fun during a Halloween party at the Chief Petty Officers' Club.

Ghosts and goblins who are judged the best dressed for the occasion will receive prizes.

Entertainment will be provided from 9 to 1 a.m. by the "Sounds of Country," a popular country-rock music group from the Los Angeles area.

Earlier in the evening, from 6 to 9 o'clock, the CPO dining staff will offer its regular Friday night Icelandic cod and prime rib of beef specials.

Next Friday, Nov. 2, there will be another "Oldies but Goodies" night at the CPO Club. From 8 o'clock until 1 a.m., members and guests can once again listen and dance to recorded music by Bill Coy and his Blue Jeans disco. Coy will be spinning platters popular during the 1950s.

Commissioned Officers' Mess
This evening the Commissioned Officers Mess will present "The Platters," a world renowned group, in a special, two-performance show.

A vocal group popular in the 1950s, "The Platters" will be performing many of their hits such as "Smoke Gets In Your Eyes," and "The Great Pretender," along with the more recent popular tunes of the '70s.

Shows are scheduled at 9 and 11 p.m., and "The Platters" back-up instrumental group will provide members and guests with danceable music between shows from 8 till midnight.

An early buffet dinner of salad, prime rib of beef, baked potato, and vegetables is planned from 5:30 to 8:30 p.m.

The price for this special event is \$12.50 per person. Reservations must be made in advance by calling 446-2549. Tickets will not be sold at the door.

MOVIES

(G) ALL AGES ADMITTED
General Audiences
(PG) ALL AGES ADMITTED
Parental Guidance Suggested
(R) RESTRICTED
Under 17 requires accompanying
Parent or Adult Guardian

Regular starting time—7 p.m.

For synopsis information call
Code O-Phone 939-2411
FRI., SUN., MON., OCT. 26, 28, 29

"THE DEERHUNTER"
Starring
Robert DeNiro and John Salvage
(Drama, rated R, 184 min.)

SATURDAY OCT. 27
"SOME LIKE IT COOL"
Starring
Tony Curtis and Marisa Berenson
(Comedy, rated R, 96 min.)

WEDNESDAY OCT. 31
"AGATHA"
Starring
Dustin Hoffman and Vanessa Redgrave
(Drama, rated PG, 98 min.)

FRIDAY, SATURDAY NOV. 2, 3
"LORD OF THE RINGS"
Animated-Fantasy, rated PG, 133 min.

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nwc rocketeer

Naval Weapons Center
China Lake
California

October 26, 1979

Vol. XXXIV, No. 43

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1980 CFG fund drive extended additional week

The Combined Federal Campaign has been extended for one week to next Friday, Nov. 2. As of Friday, Oct. 19, \$38,500 was turned over to the coordinator, Code 003. The percentage breakdown by departments is displayed elsewhere in this issue of The ROCKETEER.

Cdr. Gordon Carlburg and Dr. Ed Royce, CFC co-chairmen, point out that though these early returns are promising, it is considered desirable to extend the time beyond the original two weeks and redouble efforts to reach the \$120,000 quota.

In a message to all hands, James Woolsey, Acting Secretary of the Navy, emphasized that the CFC provides participants with the opportunity to help those in need through a single donation that supports qualifying health and social service organizations and actively turns the desire to help into the kind of concrete,

(Continued on Page 3)



GETTING THERE — Linda Minshew, a sign painter helper from the Public Works Department, shows that at the end of the first week of the Combined Federal Campaign about a third of the money needed to meet the goal has been collected. The campaign has been extended one additional week until Nov. 2 to give everyone the opportunity to contribute.

Technical Director Awards presented for laser ring gyro research, development

A dual presentation of the NWC Technical Director's Award for outstanding technical accomplishment highlighted Monday morning's Commander's meeting held in the Management Center of Michelson Laboratory.

Singled out to receive this special form of a Superior Achievement Award were Dr. John S. Rahn, a research physicist in the Quantum Optics and Semi-conductors Branch of the Research Department's Physics Division, and Charles A. Jones, an electronics engineer in the Guidance and

Navigation Systems Branch of the Systems Development Department's Avionics Division.

While making the presentations, Bob Hillyer, Technical Director, observed that the two awards were representative of the spectrum of things that are done at NWC — ranging from fundamental research to putting highly specialized equipment into use in the field.

Letters of commendation, an engraved paperweight, and a \$200 stipend were given by Hillyer to Dr. Rahn and Jones. The former was commended for the development and validation of a ring laser gyro theoretical model that predicts the impact of mirror characteristics on laser gyro performances. Jones was recognized for his major accomplishments in developing techniques for the test, evaluation and validation of ring laser gyroscopes.

Dr. Rahn's work, it was noted in Hillyer's letter of commendation that accompanied the Technical Director Award, "represents a major technical accomplishment which has had significant impact on our understanding and, therefore, application of laser gyro technology."

Military Applications Enhanced
"Your recommendations, which have been incorporated into a new design and have been validated by the contractor, will result in a device having a far greater potential for military applications," it was added in the letter of commendation to Dr. Rahn from Hillyer.

According to the letter of recommendation from Dr. E. B. Royce, head of the NWC Research Department, which called attention to the work by Dr. Rahn, this effort has made a major impact on the ring laser gyro program.

Dr. Rahn has developed a generalized ring laser gyro model to theoretically predict — and developed the laboratory equipment to experimentally validate — the impact of mirror characteristics on laser gyro performance. The results of this experimentation led to recommendations for specific design changes in the principal contractor's laser gyro.

NWC Leadership Recognized
This work, Dr. Royce pointed out, has brought recognition to NWC as a technical leader in the laser gyro field.

It was at the request of the Naval Air Systems Command (NAVAIRSYSCOM) that Dr. Rahn began his investigation of the fundamental physical phenomena which impact upon the performance potential of laser gyros. In a letter of appreciation sent from NAVAIRSYSCOM to the NWC Commander, it was noted that "were it not for his (Dr. Rahn's) professional dedication and competence, it is highly unlikely that the laser gyro technology would be maturing at the rate it is today."

Jones was cited for the development of an automated process to remove both fixture and rate table misalignment errors that will save many hours of ring laser gyro testing. He also was commended by the NWC Technical Director for developing improved methods to determine gyro random drift rates. These methods have been accepted as standard techniques by industry and will result in much improved accuracy and



TWO MEN RECEIVE TD AWARD — Dr. John S. Rahn (above) and Charles A. Jones are the latest recipients of the NWC Technical Director's Award. Both men are involved in different phases of laser ring gyro research and development. In the upper photo, Dr. Rahn makes an incidence angle change on the mirror of a laser gyro mirror scatterometer used in experimental work. Jones adjusts the dither triggering level on a laser gyro breakout box. In the background of this photo can be seen equipment which provides automatic rate table and data acquisition system control. Testing can be performed automatically 24 hours a day, 7 days a week. — Photos by Bill Fettkether

Technology update extends life of Mark 33 twin gun mount

The life of a sturdy war horse has been extended by a low-cost technology update developed at the Naval Weapons Center.

Originally designed by the General Electric Co. in 1947, the 3-in. 50 caliber Mark 33 twin gun mount quickly became the most deployed gun weapon system in the Fleet. More than 160 of these are still in use today.

Although its power drive system still serves to provide control of the gun's train and elevation position to permit accurate gunfire against hostile aircraft and high-speed surface targets, many of the electronic components in the power drive system are no longer available to replace those that have deteriorated or failed. Parts are no longer being manufactured, and stocks on hand are depleted.

Personnel of the Naval Ordnance Station (NOSL) at Louisville, Ky., recognized the need to maintain the equipment, and undertook a modernization program to provide needed improvements in the ammunition loading system and the power drives. NWC was contacted and asked to design and construct a prototype servo

control amplifier to replace the entire vacuum tube system currently in use.

A similar effort in fiscal year 1978 by NWC for the power drives in the Mark 68 gun director produced a successful design that is now being installed aboard the U.S.S. Belknap (CG-26) by NOSL.

The selection of NWC to provide the design for this system was particularly appropriate. Not only did recent design experience in this technology exist at the Center, but a 3-in. 50 caliber Mark 33 gun mount installation is located here at G-1 range.

This gun mount had been installed in 1967 for use in evaluating an earlier power drive design developed by a private contractor. That design was not pursued beyond a feasibility model, and the gun mount was left in place.

Restoration of the gun mount took place last October and November and the mount proved a valuable asset as a test bed for evaluating the newly designed servo control system.

(Continued on Page 4)

Acting Sec'y of Navy urges all to participate in CFC fund drive

"A few weeks ago, as chairman of this year's Department of the Navy Combined Federal Campaign, I initiated our Washington area campaign. Now, as our Navy-wide campaign gathers momentum, I would like to express my views about this important undertaking to all of our Navy and Marine Corps personnel.

"Most of us enjoy reasonably good health and a standard of living, which, if not luxurious, provides all our necessities. Unfortunately, there are still a fairly large number of Americans who have been unable to share fully in the blessings of our great nation; some are children who have been afflicted with debilitating and often incurable diseases.

"Some are people who have known only poverty during their lifetimes, and others find themselves in old age torn between increasing medical expenses and decreased purchasing power.

"When we aid those less fortunate Americans who are afflicted by the problems of disease, poverty, sickness, hunger, and loneliness, we are helping them to maintain the self respect and dignity that are such essential parts of our national character and so integral to our success as a nation.

"The CFC provides us with the opportunity to help those that need help through a single donation that supports 192 health and social service organizations. These organizations are actively turning our desire to help our fellow man into the kind of concrete, humanitarian aid that can combat these afflictions, and restore individual dignity and self respect.

"As the 1980 CFC chairman, I am asking for your personal and energetic support of this program. I would also encourage you to consider the use of payroll deductions as the method for making your pledge. It enables many employees to increase their pledges by spreading them over a 12-month period.

"As much as we would all like to see the Navy meet its goal, our efforts, while enthusiastic and energetic, must be free of any coercion. In the past our Navy campaigns have been brief, energetic, free of coercion, and successful. With your cooperation, I'm sure that this year will be no different."

R. James Woolsey
Acting Secretary of the Navy

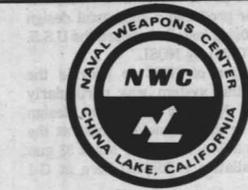


CFC DRIVE ROLLING — Supply Department employees and military personnel are active supporters of the Combined Federal Campaign. As of early this week, Code 25 had given or pledged \$3,000 of its \$5,000 goal. Dave Rivera (at right), a procurement clerk who is co-chairman of the Supply Department CFC fund raising effort, stated, "A large mural, drawn by Terry Lee Mitchell, indicates the progress of Code 25 toward achieving its goal and reminds others, as well, of the Centerwide CFC effort. Looking over the mural with Rivera are Capt. J. D. Killoran, NWC Director of Supply, and Donna Gonder, head of the Traffic Branch in the Code 25's Material Division, who shares leadership of the Supply Department's CFC effort with Rivera.

—Photo by PHAA Terence Cole

The Rocketeer

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Acting Head
Technical Information Department
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Ron Allen
Staff Photographer



DEADLINES
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Phones 3354, 3355

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2067. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 094 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Interdisciplinary Position-Electronics Engineer, Mechanical Engineer, Aerospace Engineer, Physicist, GS-555/830/841/1310-12 or 13, PD No. 796017E, Code 0431 — This position is that of head, Air Projects Office, Test and evaluation Directorate. The Air Projects Office is responsible for technical management, design, coordination, supervision, evaluation and documentation of all flight test programs conducted at NWC. The incumbent directs both the financial and personnel resources of the office and participates with NWC development and test and evaluation managers in formulating the scope and direction of the test programs. GS-13 pending classification approval. Job Relevant Criteria: Knowledge of test range facilities and instrumentation; knowledge of air launched weapon systems or equivalent; ability to supervise; knowledge of test engineering procedures; and ability to interface with all levels of technical personnel. Status: eligibles accepted.

Electronics Technician, GS-556-5/6/ or 7, PD No. 7942011N, Code 62211 — This position is located in the Metrics Electronics Section of the Air Operations Branch in the Range Department. The function of this branch is to design, develop, maintain, and operate electronic measurement, data transmission, photo-optical, computer and telecommunications systems; evaluate electronic systems and techniques, and provide consulting services for the users of these systems. The purpose of this position is to perform the duties of an electronics technician necessary to operate, calibrate, maintain and construct complex electronic systems and equipment such as plotting boards/digital/analog computers in the G-1 Range Control System. Job Relevant Criteria: Knowledge of computer numbering systems; ability to interpret basic electronic schematics and wiring diagrams; ability to use basic electronic test equipment; and ability to work well under pressure.

Mechanical Engineering Technician, GS-802-4 or 7, PD No. 7928283R, Code 6222 — This position is in the Instrumentation Section of the Track Operations Branch in the Range Department. The Instrumentation Section is responsible for provision, specification, operation, maintenance of electronic instrumentation, and for cooperation with sled design, photographic, electrical, and ordnance aspects of track testing. The incumbent will assist in the mechanical design of photographic and electronic systems for track testing and assist in the developing engineer with design, drawing, fabrication and assembly of these items. Additionally, he will maintain close liaison with other branch personnel to make certain that time schedules will be met. Job Relevant Criteria: Knowledge of mechanical design and development procedures; knowledge of drafting; knowledge of machining practices; and ability to work well with other.

Electrician (Test Control Systems), WG-2881-11, JD441N, Code 62232 — This position is in the Ground Operations Branch of the Range Department. The incumbent plans, lays out, constructs, installs, and tests electronic equipment and installations. Incumbent repairs electrical and industrial electronic components, etc. intended for use in experimental equipment. Job Relevant Criteria: Knowledge of electrical theory; electrical troubleshooting; knowledge of safety practices; knowledge of shop mathematics; and ability to do the work of the position without more than normal supervision. Supplemental required.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Budget Clerk, GS-501-3, PD No. 779040N, Code 0822 — This position is located in the Resource Management Branch, Budget Division, Office of Finance and Management. The incumbent will provide fiscal clerical support to the branch or any of the departments it serves. Incumbent assists in preparing overhead budgets, gathers financial and accounting data, monitors expenses on customer order, and order numbers, assists the department in processing travel orders and/or material requisition actions. Job Relevant Criteria: Demonstrated ability to meet deadlines under pressure; ability to work rapidly and accurately; ability to work with figures; and knowledge of accounting or budget clerical procedures. Promotion potential to GS-5.

Budget Clerk, GS-505-5, PD No. 792529N, Code 25911 — This position is located in the Reports and Analysis Branch, Management Information Systems Division of the Office of Finance and Management. The incumbent to this position will be responsible for coordinating the centralized job order input/output and fund document acceptance processes for NWC. Duties include assuring the accuracy of information provided by departments on job orders, assuring the accuracy and completeness of the master job order file, reviewing RCPs for compliance with NAV-COMPT regulations, and aiding RMAs in submitting job orders and allocations. Job Relevant Criteria: Knowledge of Navy and NWC budgeting and accounting procedures; ability to work effectively with people; ability to interpret instructions.

File applications with Terry George, Bldg. 34, Rm. 206, Ph. 3118.

Supply Clerk GS-2005-3/4/5, PD No. 7425029N, Code 25911 — This position is located in the Storage and Issue Branch, Material Division, Supply Department. The incumbent is responsible for preparation of purchase requisitions; establishes and maintains open order files; monitors automated printouts to determine which items are delinquent and takes independent action to contact vendors to ensure delivery or to make recommendations to change vendors; also takes action to update data files by completing the transactions cards and forwards completed folders to Accounts Payable. Job Relevant Criteria: Ability to deal tactfully and effectively with others; ability to communicate orally and in writing; knowledge of supply functions and procedures.

File application for the above with Susie Cross, Bldg. 34, Rm. 210, Ph. 2371.

Quality Inspection Specialist, GS-1960-7, PD No. 7926660, Code 242 — [Temporary not to exceed one year]. This position is located in the Contracts Division, Public Works Department. Incumbent will administer and inspect an annual construction contract for painting and repairs to family housing units amounting to \$1,500,000 annually. Is

responsible for contractor performance on-site to ensure compliance with contract requirements and certify amounts to be paid. Coordinates schedules with contractor and NWC. Job Relevant Criteria: Ability to inspect and administer maintenance service contracts; ability to use good judgment and tact in dealing with contractors and with NWC personnel at various levels; knowledge of DoD contracting procedures.

Supervisory Maintenance Engineer, GS-801-12, PD No. 7826087, Code 2433 — This is an interdisciplinary position that can be filled by an individual with background in any of the following engineering disciplines: civil, mechanical, electrical, industrial, architecture. This position is Head, Maintenance Management and Planning Branch, Engineering Division, Public Works Department. The incumbent furnishes engineering services for work performed by ten planners and estimators. Is responsible for screening customer-generated work requests and to insure that customer requirements are fulfilled in an efficient and timely manner. Reviews and approves planned jobs that involve a wide variety of new construction, alteration and repair of NWC facilities. Provides engineering consultation in preparation of the annual engineering summary. Provides technical support in executing the annual NWC maintenance program. Relevant Criteria: Knowledge of facilities engineering disciplines; experience in facilities maintenance management; ability for technical writing and report preparation; knowledge of the planning and estimating process; knowledge of labor, material and equipment costs and availability.

Equipment Mechanic, GW-5353-10, JD No. 373, Code 24414 — Installs, overhauls, repairs, maintains, "alters as needed", machine shop equipment, power plant equipment, large fresh water pumping equipment, range testing equipment, cranes and hoists, high and low pressure pneumatic systems and equipment, hydraulic systems and equipment, hydraulic pneumatic systems and equipment, sewage disposal plant equipment, steam engines, steam cleaners, internal combustion engines, also controls for above items. Job Relevant Criteria: Ability to install, maintain, overhaul, repair, and test run mechanical equipment. Ability to read and interpret blueprints/sketches, etc. Ability to troubleshoot pertinent equipment. Ability to use hand tools and measuring devices. Ability to do the work of the position without more than normal supervision.

Equipment Mechanic, WG-5352-08, JD No. 330, Code 24414 — Installs, overhauls, repairs, maintains, "alters as needed", machine shop equipment, power plant equipment, large fresh water pumping equipment, range testing equipment, cranes and hoists, high and low pressure pneumatic systems and equipment, hydraulic systems and equipment, hydraulic pneumatic systems and equipment, sewage disposal plant equipment, steam engines, steam cleaners, internal combustion engines, also controls for above items. Job Relevant Criteria: Ability to install, maintain, overhaul, repair and test run mechanical equipment. Ability to read and interpret blueprints, sketches, etc. Ability to troubleshoot pertinent equipment. Ability to use hand tools and measuring devices. Ability to do the work of the position without more than normal supervision.

Engineering Technician, GS-802-10, PD No. 7926059, Code 244 — This position is located in the Energy Conservation

(Continued on Page 7)



DIVINE SERVICES

PROTESTANT
Sunday Worship Service 1000
Sunday School—All Ages 0835
Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant.
Communion Service first Sunday of the Month.

ECUMENICAL
Wednesday Noon Bible Study 1130
Thursday Men's Prayer Breakfast 0630

ROMAN CATHOLIC
MASS
Sunday 0830-1130
Nursery, Chapel Annex 1 0815-1245
Daily except Saturday, 1135, Blessed Sacrament Chapel

CONFESSIONS
Daily 1115 to 1130
Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES
Sunday Pre-school thru 11th grade 1000
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday afternoon 12th grade 1630
As announced "In Home" Discussion Groups and Youth Rallies
Contact Chaplain's Office for specifics.

JEWISH SERVICES
EASTWING—ALL FAITH CHAPEL
Sabbath Services every Friday 1930
UNITARIANS
CHAPEL ANNEX 95
Services—(Sept. May) 1930

Errors costly to Burroughs . . .

(Continued from Page 6)
in Drake being hauled down in the Burros' end zone for a 2-point safety.

On their next possession of the ball, the BHS varsity (trailing 9-0) was on its own 40. A fourth down penalty against Canyon for running into Burros punter Pat Bien gave the locals a first down at the Cowboys' 47, and the BHS varsity moved in from there to score just before the first half ended.

The Burros threatened first on a 16 yd. by Waters to the Canyon High 10, but the effort was nullified by a penalty that moved the ball back to the Canyon 31. Then, on a critical fourth down situation, Quarterback Drake kept the Burros driving going by completing a pass to Greg Bell. The play gained 17 yds. and a first down on the Canyon 14.

Brown Pitches Scoring Strike

Three plays later, Billy Brown, who had replaced Drake at quarterback, fired a 16-yd. scoring strike to Bell in the end zone, and Bell booted the PAT as the Burros cut the Cowboys lead to 9-7.

After kicking off to Canyon to start the second half, the Burroughs High defensive unit shut down the Cowboys and forced a kick on fourth down that gave the locals the

Soccer results . . .

(Continued from Page 6)

were Warren Arledge, Tony Garbani, and Sheryl and Vince Thompson.

The Blizzard team was paced on offense by Eric Winter and on defense by Clint Caffee.

The Sting, a team that had been struggling until last Saturday, suddenly got its offense rolling and clicked for a 3-0 win over the Lancers. Mike Rindt scored one goal and Craig Rindt tallied the other two — one of them as the result of an assist by Andy Mickelsen.

Other players whose efforts on offense contributed to the victory by the Sting were David Wooley, Troy Erickson and Brian Fitzgerald.

Last Saturday's Youth Center soccer League play was concluded by a pair of National Division (5th and 6th graders) games during which the Kicks defeated the Surf, 2-0, and the Sounders were easy winners, 5-0, over the Whitecaps.

Scott Piri scored both goals for the Kicks — one on an assist from Guy Stanton — in their victory over the Surf. The Kicks missed other good scoring opportunities on plays set up by the passing of Sean Freyre.

Playing with the wind at their back, the Sounders racked up five goals in the first half of their game with the Whitecaps. Reed Stephenson scored twice for the victorious Sounders, while Mike Mills, Scott Oliver and Scott Hannon each contributed single goals during the Sounders shutout defeat of the Whitecaps.

Games slated tomorrow at Schoeffel Field are Rowdies vs. Express, 9:30 a.m.; Sockers vs. Chiefs, 10:30 a.m.; Earthquakes vs. Fury, 11:30 a.m.

In addition, six games are on tap at Davidove Field. The opposing teams, and the times of their games, are Rogues vs. Sting, 9 a.m.; Strikers vs. Hurricane, 10 a.m.; Lancers vs. Drillers, 11 a.m.; Timbers vs. Blizzard, 12 noon; Tornados vs. Sounders, 1 p.m., and Surf vs. Whitecaps, 2:30 p.m.

Rec. Roundup . . .

(Continued from Page 6)

ing a team in A, B, or C Divisions of the League are asked to contact the Center gym office as soon as possible by calling NWC Ext. 2334 or 2571. Team roster forms can be picked up now.

Dates and times of coaches' meetings will be announced later.

Volleyball Tournament

A two-man volleyball tournament will be held at the Center gym on Sunday, Nov. 18. There is an entry fee of \$3 per team that must be paid at the gym office no later than Thursday, Nov. 15.

Trophies will be awarded to the first place team.

ball on their own 43.

With Drake at the helm as quarterback, the Burros marched 57 yds. to paydirt and a 14-9 lead when Bell again booted the PAT. Key plays in the scoring drive was a 12-yd. gainer by Waters that started things off, and a 15-yd. romp by McDowell, which gave the locals a first down on the 10 yd. line of the Cowboys.

The Burros' second touchdown of the night also was scored by Bell, who made a leaping catch in the end zone of a pass from Drake, and the third quarter ended with Burroughs High on top by a score of 14-9.

Burros Defense Holds

Early in the final period of play, the Cowboys tried, but failed, to make the one yard still needed for a first down and turned the ball over to the Burros in good field position on their own 42.

Once again the BHS offense started to roll, and a 15-yd. run by McDowell, coupled with a 5-yd. penalty against Canyon, gave the locals a first down on the Cowboy 38 yd. line.

Waters, Pinchem and Drake then alternated as ball carriers — picking up a first down on the 15. Two pops through the line by Waters and it was first down and goal to go on the Canyon 4 yd. line. McDowell gained 2 more yds. before an ill-fated pitchout was recovered by the Cowboys, who marched 82 yds. to score the game-winning touchdown.

In the closing minutes of the game, Canyon High Quarterback Shane hooked up with Merrill, his favorite passing target, on a play that moved the ball to midfield. Two plays later (one of them a penalty against Burroughs for pass interference) the ball was on the BHS 25 — following another completed pass thrown by Shane.

Game-Winning Tally

With precious time ticking off the clock, Shane next completed a 3rd down and 15 pass for a first down on the BHS 5 yd. line, and then ran the ball himself on the next two plays to score the second TD of the night for Canyon. The PAT was good making the score 16-14 in favor of the Cowboys.

During the little time that was left before the end of the game, the Burros (throwing the ball on every play) picked up a first down on their own 40 as the result of pass from Drake to Tim Dominguez, but then lost the ball on a pass interception. The Cowboys killed the few seconds still left in the game as they held onto the ball and a hard-fought victory.

Promotional Opportunities

(Continued from Page 2)

Office, Engineering Division, Public Works Department. The Energy Conservation Office is responsible for providing overall coordination for the NWC Energy Conservation Program. The incumbent is assigned work covering data collection and analysis, computer operation, field instrumentation and documentation of energy consuming systems at NWC. The incumbent will operate the energy monitoring control system computer, survey facility energy demands, and record and analyze energy flow. Job Relevant Criteria: Knowledge of fuses and fuse systems; knowledge of ordnance disposal techniques; ability to use initiative and judgment; skill in using tools and equipment used in welding and sheetmetal mechanic trades.

File applications with Lucy Lambert, Bldg. 34, Rm. 212, Ph. 2832.

Electronics Technician, GS-856-9, PD No. 7734091N, Code 24411 — This position is located in the Electronics Prototype Branch, Engineering Prototype Division, Engineering Department. The purpose of the position is to provide direct support to project engineers in the areas of package design, electronic hardware development and fabrication, development and documentation of test specifications, and review of documentation associated with prototype and production manufacturing. Job Relevant Criteria: Ability to develop and document electronic packaging; knowledge of basic design documentation procedures; and ability to work effectively with project engineers responsible for hardware design.

Industrial Engineering Technician, GS-895-12, PD No. 7926180E, Code 34602 — This position is located in the Conventional Weapons Production Office, Fleet Engineering Division, Engineering Department. Position is that of facilities/equipment expert for the office. Incumbent is responsible for developing plans for the modernization and/or expansion of government-owned production facilities/equipment. He/she must be able to identify facilities capable of load, assemble, pack work in support of office-supported production programs and develop and issue technical data packages associated with the production programs. Incumbent also reviews contractor facilities to evaluate contractor capabilities and adequacy of plant facilities for the production of ordnance or evaluates design changes to facilitate production, reduce material or manufacturing costs, and insure that adequate test and inspection procedures can be ac-

New director, ass't director of community services appointed

A reorganization within the Recreation Branch of the Naval Weapons Center Special Services Division has resulted in the appointment of Elaine Mikkelsen and Bernadette Namauleg to handle the duties of community services director and assistant community services director, respectively.

According to Bob Huey, head of the Recreation Branch (Code 0891), this latest



Elaine Mikkelsen

move is aimed at facilitating the expansion of recreation activities outside the area of sports to other types of entertainment that will appeal to both adults and young people of the local area.

Dinner-theatre presentations, dances for different age groups, and other types of live entertainment that will make increased use of the Community Center as a recreation facility are some of the kinds of activities that will be planned, Huey stated.

Ms. Mikkelsen, with the aid of Ms. Namauleg, will be directly responsible for the scheduling of the Center theater for concerts, films, employee meetings and similar activities. Bill Sanland is continuing as the film projectionist at the Center theater.

The new community services director is a native of Ridgecrest, attended local elementary schools and was graduated from Burroughs High School before moving on to California State University in Bakersfield where she completed her formal education.

Her activities off the job include coaching

the Indian Wells Valley swim team (a group for boys and girls 4 through 18 years of age), as well as participation backstage in productions presented both by the China Lake Players and by the Community Light Opera and Theatre Association (CLOTA).

She has worked on lighting, set dressing and construction, been a stage manager, member of the stage crew and recently was involved as assistant director of the CLOTA production of "Flowers for Algernon," which was presented on Oct. 5-6 and 12-13 at the Burroughs High School lecture center.

Ms. Namauleg, who has been employed in the Special Services Division for the past 2½ years, is now in charge of sports programs and other activities for young people of the community.

A "Teen Club" has been formed that will sponsor disco dances, a Halloween carnival and dance, and even disco roller skating. This past summer, the youth recreation program directed by Ms. Namauleg included classes in woodworking; bicycle repair; skateboard, table tennis and pinball tournaments; and a softball clinic.

Prior to being appointed to her present position in the Recreation Branch of the Special Services Division, Ms. Namauleg gained experience as an accounting technician in the Special Services Division office, and as an operations clerk in the NWC gym office.



Bernadette Namauleg

modulation techniques in conjunction with applicable signal processing; design analysis, test and evaluation of advanced infrared and charge coupled device trackers and missile systems; and integration of the guidance and control design with various platforms and missile systems. Job Relevant Criteria: Experience with analog/digital systems or subsystems design in the area of missile guidance.

Electronics Engineer, Physicist, GS-855, 1310-12, PD No. 7929112 or 7439508, Code 3944 — This position is in the Electronics Branch, Electro-Optics Division, Weapons Department. The incumbent performs background and investigative studies, exploratory advanced and engineering development, test and evaluation of electro-optical seekers to meet the future threat capability. Included are target detection, identification and background discrimination, counter-countermeasures, and game performance, and techniques for adaptive control and signal processing using current technology in digital and analog circuitry. Job Relevant Criteria: Experience with analog and digital signal processing and state-of-the-art components.

Mechanical Engineer, GS-855-11, PD No. 7931178, Code 3104 (Potential: GS-13) — This position is located in the A-E Service Support Activity (SSA), Systems Development Department. The SSA is responsible to the Naval Air Systems Command A-6 project manager for the technical management of the A-6 software and for the integration of avionics and weapons systems into the A-6. The major duties of this position entail systems engineering and coordination responsibilities for the A-6 all weather standoff attack control system (AWSACS). Coordination is required with other Navy labs, with NAVAIRSYSCOM and prime contractors for the SWACS. Incumbent will direct a team which will perform design and development on avionics hardware (radar, computer) integration, software support and facility planning. Job Relevant Criteria: Knowledge of various aircraft and avionics systems; knowledge of flight testing techniques and instrumentation; knowledge of technical coordination methods and strategies; knowledge of management approaches, theories and techniques; GS-13 subject to classification approval by NCP.

File applications for the above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.



**nwc rocketeer
SPORTS**

Recreation Roundup

**Registrations now
being taken for
youth basketball**

Registration, which is being handled at the Community Center, is now underway in preparation for the upcoming youth basketball league season.

Membership in the Youth Center is a prerequisite for participation in the youth basketball program. There is a charge of \$13.50 to cover the cost of team T-shirts and other expenses.

The Youth Center Basketball League, for players from the first through twelfth grades, will include an Instructional Division for youngsters 7½ through 8 years of age; Intermediate and Junior Divisions for players 9 through 10, and 11 through 12 years of age, respectively; a Senior Division for 7th and 8th graders; and a High School Division for students in the 10th through 12th grades.

Tuesday, Nov. 6, is the deadline to register for the youth basketball program. Player screening to assess playing ability and achieve well-balanced teams in each division, is slated on Wednesday, Nov. 7, at the Center gym.

The schedule for player screening is as follows: Instructional Division, 5 p.m.; Intermediate Division, 5:15 p.m.; Junior Division, 5:30 p.m.; Senior Division, 5:45 p.m.; and High School Division, 6 p.m.

Winter Softball Tourney

The dates have been changed for the China Lake Intramural Winter League Softball tournament.

This event will now take place on Friday, Saturday and Sunday, Nov. 2-4. Competing will be the four top teams in each division of the league.

Intramural Basketball Program

Plans are being made for the 1979-80 China Lake Intramural Basketball League program, which is scheduled to begin on or about Nov. 13.

Coaches or managers interested in en-

(Continued on Page 7)

**The Place moves
ahead by 2 games
in Premier League**

Bowlers for The Place now have a two-game lead in the Premier League standings, following Monday night's action at Hall Memorial Lanes.

It took the combination of a victory (two games to one for The Place over the E.R.I. Hustlers) and a loss by the second place Raytheon Sidewinders (who were outscored in two of their three games with Western Columbia) to bring about this turn of events.

High team game for the night was the 1,003 registered by Partlow Construction, while high team series honors went to the Elks Lodge kegglers for their three-game total of 2,811.

Top individual bowler for the night was Jim Wright, who fashioned a triple 200 series of 642 by putting together single games of 209, 206 and 227. Other Premier League bowlers who equalled or exceeded the 600 series mark were Benny Whiteside (637), Glen Collins (631), Warren Turnbaugh (610), and Dick Reymore (600).

Those with single games scores of more than 220 were Whiteside (259), Collins (234 and 221), Reymore (231), Wright (227), and Dean Meyers (222).

Burros miscues costly in 16-14 loss to Canyon Cowboys

A "snakebit" Burroughs High School varsity football team lost an opportunity to stay in the running for possible runner-up honors in the Golden League last Friday at Canyon High School near Valencia.

The Burros, whose own mistakes have been at the root of their problems in winning ball games, were defeated 16-14 by the Canyon Cowboys.

The key play in the contest, from the standpoint of BHS players, coaches and fans, was a fourth quarter fumbled pitchout that was recovered by the Cowboys. The line of scrimmage on this play was the Canyon 2 yd. line, and the Burros (who were out in front 14-9) had an excellent

opportunity to put the game on ice by scoring another touchdown.

Instead of a touchdown, however, the ball ended up in possession of the Cowboys when Albert Pinchem couldn't find the handle on a pitchout from Quarterback Richi Drake. This turn of events set the stage for a scoring drive by the Cowboys, who marched from their own 18 to the Burros goal line to tally the go-ahead touchdown. A successful try for the extra point by Canyon then gave the host team its 16-14 final margin of victory.

Tonight is Homecoming for the Burros (as it was last Friday for the Canyon High Cowboys), and the Burroughs varsity

gridders are hopeful that this special event will provide them with the same kind of luck it did for the Cowboys when they host the Quartz High Rebels.

A preliminary game between the Burros sophs, who wiped out their Canyon High counterparts 33-0 last Friday, will begin at 5:15 this evening, and the varsity contest between the Burros and Rebels will get underway at 8 o'clock.

Crowning of the Burroughs High Homecoming queen and her court will take place just prior to the start of the varsity grid clash.

On a windy, cool night at the Canyon High stadium, neither team's offense could get warmed up sufficiently to move the ball during a scoreless first quarter.

Cowboys Score First

Early in the second period, however, Canyon converted the first big break of the game into a touchdown. A pass thrown by Quarterback Drake of Burroughs was picked off at midfield and returned to the BHS 34 yd. line, and a penalty then cost the Burros 15 yds.

Setting up with a first down on the BHS 18, the Cowboys tallied three plays later on a pass from Steve Shane, the Canyon High quarterback, to wide receiver Lance Merrill. The scoring play covered 13 yds., and the PAT by the Cowboys was good — giving them a 7-0.

On the ensuing kickoff, the ball got past Leotis McDowell (who was the deep receiver) and the Burros found themselves in the hole on their 1-yd. line. Drake and Mike Waters gave the local team a little breathing room on runs out to the 7, but a third down mixup in the backfield resulted

(Continued on Page 7)

**China Lakers win
Northern area flag
football tourney**

An all-military flag football team, composed principally of players from the Headknockers, leaders in the China Lake Intramural Flag Football League, last week rallied to win an 11th Naval District Northern Area flag football tourney held at the Naval Construction Battalion Center, Port Hueneme.

As a result of their come-from-behind effort, the China Lakers advanced to the 11th Naval District regional flag football tourney that began on Monday at the Naval Air Station, North Island (San Diego).

No details, other than the scores of last week's games at Port Hueneme, were

In 11th Naval District flag football competition held in San Diego, the NWC team was eliminated Wednesday afternoon, after sandwiching in an exciting 56-44 win over the USS Belleau Wood squad on Tuesday night between two defeats at the hands of the NAS Miramar gridders.

The China Lakers lost their first game in the border area city on Monday to Miramar by a score of 25-20. Then in a rematch on Wednesday, the locals were outscored 33-19 by Miramar.

available locally, Paul Baczkiewicz, NWC athletic director, reported.

Led by Quarterback Andy Price, the NWC flag football team defeated Point Mugu, 12-6, in the first game of last week's double elimination competition.

On Tuesday night, Oct. 16, the locals were dropped into the losers' bracket of the tourney as the result of a 6-0 defeat by the Port Hueneme flag football squad.

In the three-team event, this brought on a rematch Oct. 16 between NWC and Pt. Mugu that was won, 8-0, by the China Lakers and set the stage for the championship showdown against the undefeated Port Hueneme team.

In order to claim the Northern Area flag football title, the local squad had to win two games in a row from Port Hueneme, which it did by scores of 20-6 and 14-6 on Thursday and Friday, Oct. 18 and 19.

(Continued on Page 7)



TREES PLANTED AT GOLF COURSE — Trees that will provide more shade, beautification, and be a bit of an obstacle as well for shots headed for the greens, were planted last week at the China Lake golf course. The trees, poplar and fruitless mulberry, were donated by the Indian Wells Valley Century Football Association. They were purchased from a portion of the proceeds from the fourth annual Frank D. Robinson Memorial Golf Tournament held in August. Present for the ceremonial planting of the first tree were (l. to r.) Al McDonald, Ed Brooks, Jim Cantrell, and Wayne Claunch. Brooks is president of the IWV Century Football Association, while McDonald (chairman of the 1979 event) has passed this responsibility on to Claunch in 1980. Cantrell is the greens superintendent at the China Lake golf course.

—Photo by PH2 Tony Garcia

**Youth soccer teams play full nine
game schedule despite strong winds**

Despite strong winds, which made soccer playing difficult, a full nine-game schedule of games was played last Saturday by teams competing in the Youth Center Soccer League.

During three Pacific Division contests at Schoeffel Field, the Fury and the Earthquakes were easy winners over the Sockers and the Rowdies by scores of 5-1 and 4-1, respectively. In another Pacific Division contest, the Chiefs edged the Express 1-0.

Armando Valdevea tallied all five goals in the big win by the Fury over the Sockers, while Joe Nelson was outstanding on defense for the victors.

For the Earthquakes in their win over the Rowdies, Matt Mann scored the first goal for the 'Quakes, and it was quickly followed by a super kick by Jacob Albers (assisted by Mann).

The Earthquakes' 2-0 lead was increased by the efforts of Jerry Osburn, whose fancy footwork, and an assist from Albers, resulted in two more goals being scored.

Aggressive play on defense by Greg McCalester helped to limit the Rowdies to a single goal by Chris Mills.

Good defensive play by both teams marked the Chiefs 1-0 win over the Express. The lone goal for the Chiefs was tallied by Tim Matson, who received help in moving the ball into scoring position from David Shotwell.

Outstanding defensive players in this

game were goalkeeper David D'Anza, Mike Ridenour, Mark Nemeth, Matt Pohl and Chris Wood, all of the Chiefs, and Larry Zulkoski and Doug Larch, for the Express.

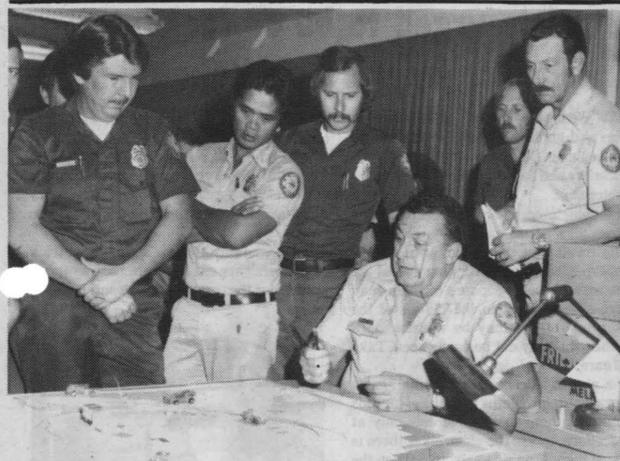
In American Division action (for 3rd and 4th grade players), the Timbers and Drillers edged the Hurricane and Strikers by scores of 1-0 and 3-2, respectively, while the Rogues and Sting shut out their opponents — the Blizzard and Lancers — 2-0 and 3-0.

The Timbers 1-0 win over the Hurricane was sparked by the offensive play of James Miller. The game's only goal was tallied by David Lowham, assisted by Jason Okamoto.

Despite the efforts of goalie Robbie Green, who made three difficult saves, the Hurricanes lost their third straight 1-0 game. Evan Richards and Shea Kennedy played well on defense as they held down the usually explosive offense of the Timbers.

Between them, David Tetmeyer and Mark Bullard scored three goals for the Drillers in their come-from-behind 3-2 win over the Strikers. One goal each by Chris Johnson and John Duncan gave the Strikers a halftime lead.

Penalty kicks by Perry Martinez and Carl Hibberts were the key to the Rogues 2-0 win over the Blizzard. Rogue defenders who played a major role in the shutout victory



STUDYING THE SITUATION — Firefighters (l. to r.) John Trigg, Gino Villaiba, Will Simoneau, Bob Lemon, and Fred Whitnack (one of the two instructors for Fire Command I), watch while Jim Jackson decides where equipment should be placed to be most effective for fighting a simulated fire. Through the use of a fire simulator and the layout board for emplacing equipment firefighters were able to practice the skills they had learned in the classroom during the course.

**Simulator used as training tool
by NWC Fire Division personnel**

Major fires have been occurring all week in the Training Center at the Naval Weapons Center — but there is no cause for anyone to be alarmed.

They have been occurring in the simulator used for Fire Command I, a class conducted as in-service training for the personnel of the Center's Fire Division; the California City Fire Department; Marine Recruit Depot, San Diego, Fire Department; and the Kern County Fire Department.

Morell W. Fitch, Fire Training Specialist III for the California State Fire Marshall's Office, and Fred Whitnack, training officer for the Center's Fire Division, conducted the 36-hour course for 19 fire fighters. Capt. Bill Brown, Kern County Fire Department, assisted with the simulator.

The class provided both theory and practice in commanding fire operations.

Topics covered included roles and relationships of the officer in charge of an emergency situation, how to make decisions about deploying personnel and equipment, and practice in communicating information and decisions in an emergency.

The class members then were divided into small teams for practice with the simulator. Each team would be brought separately into the class area where each team member was assigned a role to play, with one serving as incident commander.

A fire then would "break out." The area supposedly on fire was shown on a screen with an overhead projector. Superimposed

**Center to host
vendors' week for
small businesses**

Preparations are being made for the Naval Weapons Center to host a vendors' week for small and minority businesses in an effort to create new opportunities for contracting with the government and subcontracting with large prime contractors.

It is the policy of the Department of Defense to place a fair proportion of its total purchases and contracts for supplies, services, and research and development with small business concerns.

During the week of Nov. 5 through 9, the opportunity will be provided for bringing together representatives of small business firms with government contracting and technical personnel in an effort to initiate strong business relationships in the future.

This program will be conducted on a one-to-one appointment basis. For further information, interested persons are asked to contact Mrs. Lois Herrington by calling NWC Ext. 2712 or 3838.

on the image was a polaroid screen in motion that presented a realistic appearance of smoke or flames or both.

The fire fighters, who could communicate only by radio (as in a real conflagration), then proceeded to give orders and instructions about how the blaze should be handled.

When procedures were judged to be correct by the instructors, the "fire" could quickly be brought under control; if they were not, the "blaze" would increase (though without damage to any real property).

The size and configuration of the fire was controlled with the polarizing screen in the fire simulator.

The fire fighter in charge of deploying equipment had a board with miniature equipment on it and a layout of the area where the supposed fire was taking place. Equipment was emplaced by a class member where it would best serve. Again, the simulator was programmed to show vividly whether the best decisions had been made.

This course is part of the Center's Fire Division Professional Training Program; this and other classes attended by personnel from NWC, other Navy activities, and other fire departments are designed to enhance the professionalism of fire fighters.

Two receive TD Award

(Continued from Page 1)

significantly reduced test costs. Jones was recommended for the Technical Director Award by Dr. M. M. Rogers, head of the Systems Development Department. He has played a key role in the exploratory development phase of the ring laser gyro and its systems applications, Dr. Rogers wrote.

One of the most recent and unique validation processes developed by Jones was an automated process by which gyro axis misalignment could be measured — allowing a computer to remove both fixture and rate table misalignments errors automatically. This, Dr. Rogers explained, not only resulted in increased accuracy, but

CFC fund drive . . .

(Continued from Page 1)

humanitarian aid that can combat afflictions and restore individual dignity and self-respect.

Secretary Woolsey encouraged the use of payroll deductions in making contributions. These payroll deductions will begin with the first paycheck in the new calendar year.

Contributors may designate one or more groups from the wide range of health and service organizations to receive donations. These organizations are described in a brochure that was distributed along with

also in a minimum savings of two to four hours every time a gyro is tested.

This process, it was added, has been discussed with the NWC Patent Counsel and is being prepared for submission.

Several years ago, Dr. Rogers continued, Jones developed and documented the use of fixed-angle rather than fixed time drift-test measurements to increase the speed and accuracy of gyro random drift determination. He was also responsible for innovations in gyro drift testing on a polar-axis mount to reduce set-up time and virtually eliminate test errors due to gyro fixture and mount misalignments.

This work was relatively unnoticed until recently when Honeywell, Inc., NWC's primary laser gyro supplier, recognized the value of these new techniques and adopted them. As implemented in the Code 314 Inertial Test Lab, these techniques greatly enhance the capability to test numerous gyros with the limited facility and number of trained personnel available. Dr. Rogers wrote in recommending Jones for the NWC Technical Director Award.

Pleased at being singled out to receive the TD Award, Jones acknowledged the efforts of Don Meyer, Gordon Lowham and Barbara Hayes who, he said, were responsible for much of the laboratory equipment set up and software that made the improved test techniques possible.

COMBINED FEDERAL CAMPAIGN
Percentage of Participation
as of Friday, Oct. 19, 1979
Total amount: \$38,500

Code	00	03	06	08	09	12	21
Pct.	18	63	0	24	20	30	31
Code	24	25	26	31	32	33	34
Pct.	07	30	5	10	13	14	19
Code	35	36	38	39	61	62	64
Pct.	13	14	35	6	28	10	27
Code	93	94	95	96	97	VX-5	
Pct.	0	0	0	0	0	23	



Oct. 28

pledge cards. Undesignated funds will be divided among the three primary agencies: IWV United Way, 75 percent; National Health Agencies of Kern County, 15 percent; and International Service Agencies, 10 percent.

Those who have yet to turn in their pledges to department representatives are urged to do so as early as possible today. This will facilitate delivery to the coordinator and early determination of the returns.

For those unable to meet today's deadline, late returns will be accepted by department representatives next week.

TIME CHANGE SLATED — It's that time of the year again when the change will be made from Daylight Saving to Pacific Standard Time, thus allowing California residents to regain that hour of sleep lost last spring when clocks were set forward. While the changeover to Pacific Standard Time doesn't become official until 2 a.m. on Sunday, for those who don't plan to remain awake until that hour, their best bet is to set all clocks back one hour just before retiring on Saturday night.

ADAN Jenkins singled out as VX-5 Sailor of Month

Aviation Machinist Mate Airman Timothy E. Jenkins was selected as Sailor of the Month for September by Air Test and Evaluation Squadron Five (VX-5).

The letter of commendation to ADAN Jenkins, signed by Capt. Paul D. Stephenson, Commanding Officer of VX-5, noted that ADAN Jenkins was the only airman who is fully turn qualified for both high and low power engine run up for the C-1, A-4, A-6, and A-7 series aircraft.

The letter continues, "It is a tribute to your initiative and hard work that you have achieved this high degree of professional achievement. This and your other contributions to the work center singled you out as a truly outstanding asset to the 'Vampire' team.

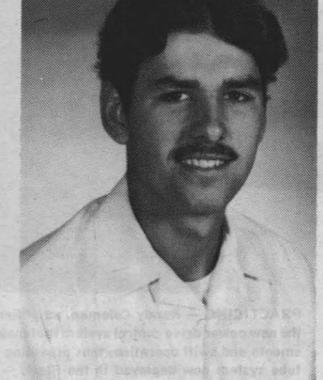
"My personal congratulations and a much deserved 'Well Done,' the letter concludes.

ADAN Jenkins has been at China Lake for 15 months since completing "A" school at Memphis, Tenn. Prior to attending "A" school he served briefly as a recruiter in Cucamonga, Calif., where his parents now live.

He was born in Danbury, Conn., but spent most of his childhood in Kennewick, Wash., and Lakewood, Calif., before moving to

Cucamonga, where his father's work as an actor took the family.

ADAN Jenkins himself has been involved in the theatrical world since he was 6 months old; prior to entering the Navy he appeared in a movie ("The Betsey"), in a



ADAN Timothy E. Jenkins

Kinney shoe commercial, and in more than 20 stage productions.

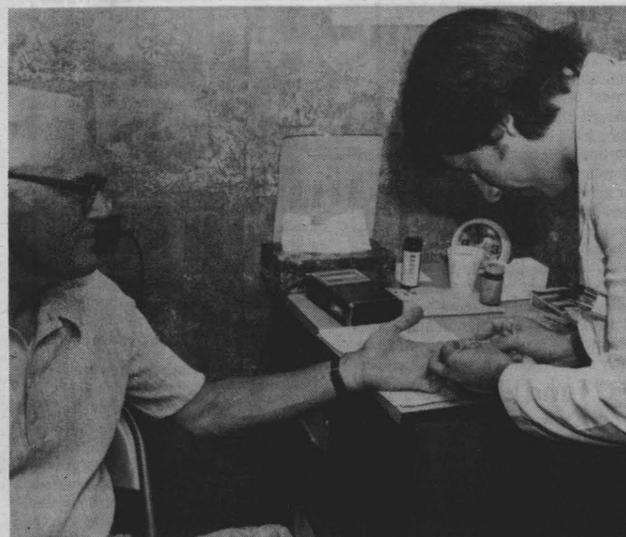
His future plans, however, include acting only as a hobby, because since he joined the Navy he has become sufficiently interested in aircraft so that he intends to enter Spartan School of Aeronautics in order to study avionics on completing his enlistment.

ADAN Jenkins has a variety of interests and activities ranging from playing racketball to riding a dirt bike to camping and backpacking. He also enjoys ceramics and woodworking, having recently completed three clocks made from redwood from the local area lumbermill.

He and his girl friend, who is also assigned to duty with VX-5, are planning to extend hobby activities into lapidary work to make Christmas presents for both families.

As a result of his selection as VX-5 Sailor of the Month, ADAN Jenkins will enjoy one month without standing duty watches, receive a 72-hour special liberty and have the use of a reserved parking space near the entrance to the squadron's hangar.

He will also receive a plaque, and his photo will be displayed along with those of other squadron Sailors of the Month.



MOBILE HEALTH CLINIC VISITS NWC — A simple blood test, administered by Dr. Rafael Garcia, was one of the services provided during a recent visit to the local area by a Mobile Health Clinic brought here from Los Angeles by the Seventh-day Adventist Church. According to Harold Smith, (at left) a technical publications writer-editor in the Writing Branch of the Technical Information Department, he was being given a blood test to check for diabetes as this photo was taken. The Mobile Health Clinic was stationed in the parking lot at the China Lake Community Center on Thursday and Friday, Oct. 18 and 19, and also at various locations in Ridgecrest last week. It will be back at the Safeway Shopping Center in Ridgecrest tomorrow from 2 to 6 p.m. — Photo by PHAA Terence Cole

Motorists urged to be on lookout for trick or treaters on Halloween

Next Wednesday, Oct. 31, Halloween goblins and ghosts will be roaming around at China Lake. Do watch out for them, the NWC Safety and Security Department urges all motorists.

As a vehicle operator, expect that some children may get so excited by the idea of getting treats that they sometimes will do the unexpected, such as running across the street without looking. Some of them may try crossing a street in the middle of the block, while others may be wearing dark costumes and may not be easily seen. Take extra care.

As a parent, accompany the small ones. Discuss traffic problems with the older kids and caution them to cross streets only at intersections, to use the sidewalk if there is one or, if there is no sidewalk, to walk on the left facing traffic. Parents should instruct their children to be alert for cars turning at intersections and not to enter the roadway from between parked cars. A child carrying a lighted flashlight can be seen more easily.

Patches of reflective tape on costumes also can help to make it easier for kids to be seen. Employees at the Safety Office, located at the corner of Hussey Rd. and Nimitz Ave., have a treat they would like to share. Available for distribution are pieces of reflective tape that can be stuck on costumes and then easily removed. It is requested that parents stop by the Safety

Office and pick up some of the reflective tape for their kids.

Youngsters also should be instructed to wait until they return home to go through any treats they get so that their parents can help to make sure that they are safe to eat.

Those who stay at home waiting for "trick or treaters" are asked to purchase wrap goodies for the treats they give out. Remo-



BE SAFETY CONSCIOUS — Carrying a flashlight and fastening patches of reflective tape on costumes are two things that can be done to make sure that "trick or treaters" can be more readily seen by motorists while making their rounds on Halloween. Demonstrating such safety practices for the purpose of this picture are Kathy McGlade (with flashlight), who is accompanying her younger sister, Victoria (Tori) McGlade, on a visit to a neighbor's house.

the "Western Harmony Roundup," as will Reno Venturi, who is known locally for his singing ability.

Songs to be sung by the chorus of the Singing Sands Chapter of the Sweet Adelines include "A Good Man Is Hard To Find," "Ragtime Cowboy Joe," "You Can't Get a Man With A Gun," and "Tumbling Tumbleweeds."

The Singing Sands Chapter quartet (Joan Renner, lead; Nicki Haven, tenor; Felice Reynolds, baritone; and Georgia Klassen, bass) will present its rendition of "I've Got Spurs That Jingle, Jangle, Jingle."

Tickets, priced at \$3.50 for general admission, or \$1.50 each for students, senior citizens, and military personnel, can be purchased in advance from any member of the Sweet Adelines. They also will be on sale at the lecture center box office prior to the show on the evening of Nov. 3.

all possible hazards around the door or in the path so that children will not stumble and fall. Keep a light on at your entrance door so that youngsters can see.

Do not put out decorations containing lighted candles, such as a pumpkin. Smaller children might be tempted to play with them and costumes might be ignited accidentally.

Let's keep Halloween a safe and a fun time for all.

Happenings around NWC

A disco dance for teenagers will be held on Tuesday, from 6 to 9:30 p.m., at the Youth Center, where a lot of work will be going into the creation of a haunted house in preparation for Halloween.

Young people 13 through 19 years of age will be admitted to the dance at a charge of \$1 each, and prizes will be awarded Tuesday evening to the winners of disco dance contests.

Recorded music will provide for the disco dance.

On the following night (Halloween), the haunted house at the Youth Center will be open free of charge from 5 to 7:30 o'clock to all those interested in visiting it.

Yard Work Tools Available

Beginning on Tuesday, self-help tools and materials made available to tenants of Navy housing at China Lake for home and yard improvement work will be issued at a new location.

The new location is a room on the lower floor, east corner of the building at 77 Bard St. China Laker will be required to show their NWC pass as identification before any tools or materials will be issued.

The office which will dispense self-help tools and materials for home and yard improvement work will be open on Tuesdays and Thursdays from 3 to 5:30 p.m.



PRACTICING — Randy Coleman, amplifier Mark 172 project engineer, tries out the new power drive control system that makes training and elevating these guns a smooth and swift operation, thus providing a major improvement to the vacuum tube system now deployed in the Fleet.

Sweet Adelines to present 'Western Harmony Roundup'

The Ridgecrest Singing Sands Chapter of Sweet Adelines will present its annual vocal music show on Saturday, Nov. 3, in the Burroughs High School lecture center. Curtain time is 8 p.m.

"Western Harmony Roundup" is the title of this year's show, which is directed by Eleanor Hartwig. Characters in this light-hearted musical presentation, and the roles they depict are:

Marge, owner of the Bar None Dude Ranch, Janice Arisman; and members of the ranch staff — Vicki (Nicki Haven), Missy (Felice Reynolds), Jo (Joan Renner), and Ernestine (Georgia Klassen).

Others in the cast of this western musical show are Jean, Yona and Judy, portrayed by Mrs. Hartwig, Diane Legman, and Mary Hoyt, respectively, and the following supporting singer-actors:

Helen Ferguson, Lynn Johns, and Betty Turner, plus other Sweet Adelines Chorus members Kathy Armstrong, Alma Barber, Ruth DeRoulet, Mary Gibbons, Rene Grant,

Gun mount . . .

(Continued from Page 1)

The new power drive control system, designated amplifier Mark 172 Mod 0, is both easier to maintain and more reliable. Parts that need adjustment are more accessible, critical system parameters are metered, and status indicators and testing aids are built in. These are but a few of the improvements to the original vacuum tube system.

The all solid state design is inherently more reliable, has low power loss, and is considerably smaller in size. Because it can replace the older amplifier with very few changes to the gun mount, the amplifier Mark 172 represents a significant achievement in extending the life of a proven shipboard weapon system.

The prototype has already undergone the first series of performance tests at NWC and NOSL. NWC is committed to construct two preproduction prototypes for delivery to NOSL. The first Fleet installations are scheduled to take place in June 1980.

The work was accomplished by a small, closely-knit team of six men: John W. Ayers, project manager; Randy Coleman, project engineer; Bill Stout, electrical engineer; Roger Nickell, an electronics technician; Chuck Maples, documentation manager; and FTMI Dave Butler, military advisor.

Preliminary step taken prior to seeking bids for equipping RCC

With work already underway and approximately 10 percent complete on the construction of a Range Control Center (RCC) building, a preliminary step was taken here recently prior to seeking bids on the development and installation of the RCC's complex computing, test control and display system.

Nearly 50 representatives of 17 contractors and manufacturers attended a 1½ day, presolicitation conference that was held for the purpose of providing prospective bidders with information that will better enable them to prepare any proposals they may submit for development of the Range Control Center Integration and Processing System (RIPS).

The Range Control Center is the focal point of the NWC Range Modernization Program under the direction of Bill Hat-tabaugh, head of the Test and Evaluation Directorate, and overall program management is provided by the Range Department.

Principal Functions of RCC

The principal functions of the RCC, which is located east of Armitage Airfield at the intersection of Water Road and the range access road to Charlie Range, will be operation, monitoring, and control of test ranges and instrumentation on all northern ranges of the Naval Weapons Center, plus selected ranges in Randsburg Wash and the Mojave B areas. This includes the monitoring and control of test aircraft (including drone targets), data collection and reduction, the surveillance of restricted airspace, and the scheduling of range resources.

During the construction of the RCC, bids will be sought on the development and installation of the Control Center's vast array of complex equipment. Depending upon the results of recently held preliminary discussions, the preparation and release of a formal request for proposals on RIPS will follow no later than January 1980.

In preparation for the 1½-day meeting here, a technical package that included copies of the draft specification, statement of work, proposal preparation instructions, and user's manual for the RIPS, was sent out for review by industry.

Firms with an interest in handling this kind of work were invited to send representatives here prepared to comment on such matters as complexity of the RIPS requirements relative to the state-of-the-art; possible revisions that would allow a more cost-effective approach or solution; changes that would provide maximum increases in capability with a minimum

cost impact; and revisions that could provide maximum utilization of off-the-shelf hardware or software instead of having to develop such equipment for use in the Range Control Center.

Welcoming remarks by John Di Pol, head of the NWC Range Department, opened the conference, at which Fran LaPierre, the RCC program manager, served as chairman and moderator.

General conference guidelines and direction for questions and answers were provided by George Legg, a contract negotiator from the Naval Regional Contracting Office in Long Beach, and by Blaine Manson, a contract specialist in the NWC Supply Department.

An overview of the RCC program illustrated by film slides was provided by LaPierre, following the showing of a film about the various Naval Weapons Center ranges.

For the remainder of the morning on the first day of the conference, the Range Modernization Project Engineers provided the visitors information on the major systems that will interface with the RIPS. The subjects covered and the speakers, who each gave 10-min presentations, were Airspace Surveillance, Robert Vorwerk; Integrated Range Communications System, O. J. Dovre; Integrated Target Control System, Leonard LeBow; Meteorological Sounding System, Richard Furstenberg; Metric Video and Video Operations System, William Lamb; On-Axis Data System, Robert Barsaloux; Telemetry System, Robert Rockwell; and Timing System, Jerry Allen.

Lively Interchange

The afternoon session was dedicated to a lively interchange between the visiting industry personnel and a technical panel composed of LaPierre and the RCC Systems Engineering team. Members of the team who participated were Robert A. Harriman, who heads the team; John M. La Marr, RCC software engineer; and six representatives of the RCC's System Engineering and Technical Assistance contractor, Computer Sciences Corp. (CSC), Walter A. Dienhart, who heads the CSC team, as well as Dan Boessow, Robert Tipton, Neal Hofland, John Crnkovich, and Gerald Langston, participated in the discussions.

From 9 a.m. until noon on the second day of the conference, time was allowed for a tour of the NWC range area that included a drive by the RCC building site, and stops at the telemetry pad, the video operation's center, and G-1 range fire control.



OVERVIEW GIVEN — Contractor representatives (l. to r.) Elliott Spurway and George Myer, and Fran LaPierre, Range Control Center (RCC) Program Manager, listen while John DiPol, head of the Range Department, expounds on what he would like to see in the new RCC building. Nearly 60 representatives of various industrial concerns attended the 1½-day presolicitation conference held here recently. — Photo by Ron Allen



SETTING UP — Kelly Lewis (l.) and Debbie Whitebaker ready shelves at the new Commissary store in preparation for the grand opening celebration next Tuesday at 10 a.m. Numerous bargains of specially priced merchandise will be found by eager shoppers in both the Commissary and the new Navy Exchange stores in celebration of the move to the new location in Bennington Plaza. Those who shop in either store during the first week are eligible for prizes of such items as digital watches, a charcoal kettle barbecue, and a clock radio. While supplies last, all shoppers will receive special giveaway items. — Photo by PHAA Terence Cole

Disco dance, skate-a-thon set by Elks to raise money to aid cerebral palsy victims

A variety of activities to raise money for support of those who are victims of cerebral palsy have been arranged on the weekend of Nov. 2 through 4 by the Ridgecrest Elks Lodge.

Leading off will be a disco dance-a-thon for junior high students at the Ridgecrest Elks Lodge, 201 E. Church St., on Friday, Nov. 2. Admission has been set at \$1.50 per student except for those who have obtained pledges amounting to \$5 or more. The latter will be admitted free of charge.

The dance-a-thon will start at 5 p.m. and continue until midnight. Pledge sheets can be picked up at various business locations, and dancers who raise the largest amount pledged for the benefit of the cerebral palsy fund will be awarded prizes donated by local merchants.

There also will be prizes awarded for those judged to be the best dancers, in addition to door prizes that will be given away. Recorded dance music will be provided by Bill Coy and his Blue Jeans Disco.

Another marathon event, this one for skaters of all ages, is planned on Saturday morning, Nov. 3. Entrants are asked to obtain pledges for the cerebral palsy fund of so much per mile for each mile skated.

The skate-a-thon will begin at 9 a.m. on the parking lot of the Computer Sciences Corp. building (located at the intersection of Norma St. and Inyokern Rd. in Ridgecrest).

Entry forms, on which pledges are to be listed, can be obtained at business places in Ridgecrest. Prizes donated by local merchants will be presented to those whose efforts result in the highest amounts raised for the cerebral palsy fund.

On Saturday and Sunday, Nov. 3 and 4, a bowling tournament for the benefit of the cerebral palsy fund will be held from 12 noon until 3 p.m. at the Ridgecrest Bowl.

This a mixed foursomes event, and prizes will be awarded for the best team scores (including handicap). Entry forms can be picked up at Hall Memorial Lanes (China Lake) or at the Ridgecrest Bowl. For additional information, those interested should call George Barker at 375-7387 after working hours.

As an additional fund raiser for the benefit of cerebral palsy victims, the Ridgecrest Elks Lodge will be the setting on Saturday, Nov. 3, for a prime rib dinner and dance that is open to the public.

Dinner, to be served from 6:30 to 8:30 p.m., will be followed by a dance starting at 9 o'clock. The evening's activities also will include an auction by Bob Preul of items donated by local merchants and residents.

There also will be a brunch on Sunday, Nov. 4, at the Elks Lodge from 10 a.m. to 12 noon. This will complete the list of special events scheduled for the benefit of the cerebral palsy fund.



USING UP ENERGY — Dr. Robert McKee from the University of Nevada at Reno sets the energy-environment simulator while Capt. Jon Ives, NWC Public Works Officer, "plays the energy game" by determining the proper mix of energy producing fuels for the most effective long term use of these fuels. Each second of computer time represents a hundred years. Dr. McKee conducted three workshops on energy in the local area as part of the NWC observance of Navy Energy Awareness Week.