

Holiday season sales activity going strong at NEX retail store

The excitement of the holiday season has taken over at the Navy Exchange retail store, with visits from Santa Claus scheduled from 12:30 until 4:30 p.m. on both Thursday and Friday, Dec. 15 and 16.

On Saturday, Dec. 17, Santa will visit each of the Navy Exchange facilities, but he's not announced the time when his sleigh and reindeer will take him to each place.

For the convenience of holiday shoppers, the main retail store is extending its hours on Tuesdays through Fridays. Starting on Tuesday, the NEX retail store will be open from 10 a.m. until 7 p.m. on each of the four weekdays.

Mondays are something special also: any purchase made on Monday will be gift-wrapped free. Purchases that have already been made on Mondays (and for which a receipt shows that they were purchased on a Monday) can also be brought in for this free service. The service extends to layaways that are paid for completely and picked up on Mondays as well.

From Tuesday through Christmas, another new service will be added for the convenience of NEX customers: computer-assisted imprinting on either soft cotton fabric or paper products.

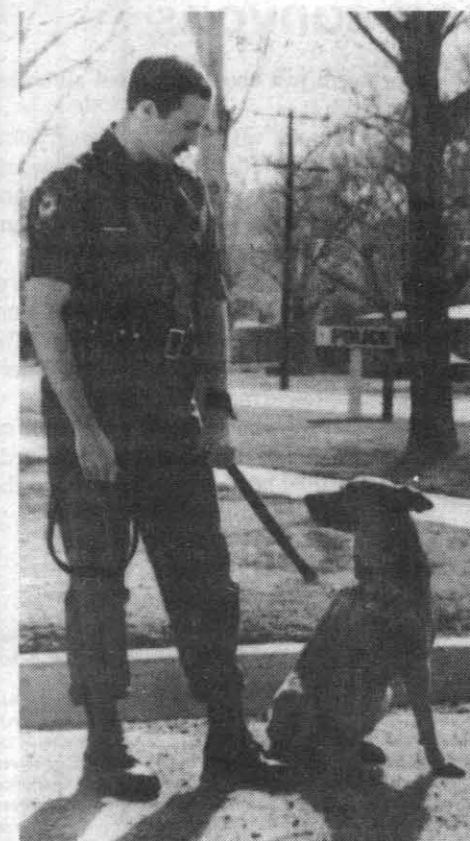
The computer can use either an image of a live subject or can work from a photograph to make a permanent transferable print suitable for putting on shirts, jig-saw puzzles, calendars, posters or other miscellaneous items. This service is available at the Personalized Service Counter to make a unique Christmas gift.

For those who are puzzled about what to get their loved ones for Christmas, wish books are distributed throughout the store with suggestions of gifts at various sale prices.

Hours of operation at library to be trimmed

The Center Library will have to cut back its hours of operation in order to keep within the limitations of present staff and budget, according to a regretful announcement by Elizabeth Wilkie, Center librarian.

Starting Sunday, the library will be open from 1 to 8 p.m. on Saturdays and Sundays, and from 11:30 a.m. until 8 p.m. on Mondays, Tuesdays, Thursdays, and Fridays. The library will be closed all day Wednesdays.



PARTNERS — Officer Tom Whalen of the China Lake Police Division and Fellow, the Center's drug detection dog, will begin health and welfare and military inspections on Monday, Dec. 19. Areas to be inspected, which will be chosen at random by a computer, include working spaces, parking lots, offices, recreational facilities, Bachelor Enlisted Quarters, and Bachelor Officer Quarters.



GOOD DEED DONE — Members of the China Lake 1st Class Petty Officers Association, headed by AE1 Ronald Claich, as president, turned to on a recent weekend to install a chain link fence around an outdoor barbecue and picnic area at the Enlisted Dining Facility. Shown helping to put the finishing touches on this volunteer, self-help project are (in front of fence) AT1 Patrick Kold (at left) and AD1 Paulo Abad. On the opposite side of the chain link fence are (l.-r.) AC1 Tina Evans, HM1 Anthony Gridler, and AD1 Jon Copeland.

Fire Div. offers suggestions for fire-safe holiday season

This Christmas season promises to be a time of joy for most Americans, but for some, it will be a time of tragedy, because of someone's failure to observe fire safety precautions in selecting and using Christmas trees, decorations, gifts and wrappings.

Judging by past years, some will be killed, many will be injured and much property will be destroyed, due to preventable fires. The NWC Fire Division recommends the following precautions for a safe Yuletide season.

Buy a fresh tree and store it in a cool place with its base in water. Cut off a portion of the base before setting up the tree, so that water may be absorbed more easily. Put the tree in a stand with a sturdy base, and keep water in the stand above the cut.

Keep the tree away from heat sources such as heating ducts, TV sets, and fireplaces, and away from indoor traffic patterns.

Do not rely on the tree's fire-retardant qualities, unless it has been properly treated with UL-listed chemicals. Do-it-yourself flame proofing methods are unreliable.

Never put lighted candles on a tree, or near any evergreen decorations.

Artificial trees should be clearly marked if made with slow-burning materials. Look for the UL label on trees with built-in electrical systems. Only indirect lighting should be used on metal trees to avoid the

Toys for Porterville State Hospital to be collected tomorrow

Tomorrow, Dec. 10, from 9 a.m. to 3 p.m., several local youth organizations will cooperate in a door-to-door drive to collect toys and gifts for the more than 1,300 year-round residents at Porterville State Hospital.

Items donated may be new or used, should be in good condition, and should be unwrapped, to aid in appropriate distribution. Wrapping paper is also a welcome item.

The drive will be supervised by adults, and each participating youth will wear an identification badge. The following drop off points have been designated in addition to door-to-door collection for those who miss a call at their home:

Century 21 Realty, Kern County Library, Immanuel Baptist Church, Ridgecrest Chamber of Commerce, Baskins-Robbins 31 Flavors, Ridgecrest City Hall, First Baptist Church, St. Ann's Catholic Church, and the Inyokern News Review. These locations will be open for gift collection through Dec. 24.

The Porterville Hospital Parents' Group and the Immanuel Baptist Youth Group will distribute the gifts at a Christmas party for the Porterville Hospital residents. Further information may be obtained by calling Dan Banks at 375-7108.

All hands Christmas party for Centerites scheduled on Dec. 15

The Naval Weapons Center's all hands Christmas party will be held next Thursday, Dec. 15, at the Enlisted Mess, and everyone is invited to attend.

The festivities will begin with a social hour at 6:30, to be followed by a three-meat buffet dinner at 7:30. The evening will conclude with dancing to the music of the Ocean Express, a Navy band from Treasure Island.

No formal program has been planned, but prizes will be presented during the evening.

Cost for the evening, including dinner, is \$5 per person for enlisted personnel and their guests, and \$7.50 for officers and civilians and their guests.

Tickets can be purchased in advance by contacting LCdr. Jim Tankersley, NWC ext. 7439; LT. Byron Crow, NWC ext. 5144; ABCM Larry Duesen, NWC ext. 5464; PR2 Patricia Carey, NWC ext. 5401; LT. Dave Feldman, NWC ext. 2165; and LCdr. Steve Matthews, NWC ext. 2162.

Tickets will also be available at the door. Appropriate dress for the evening will be a coat or sweater, shirt and tie for men, or a cocktail dress for women.

Protestant choir to present Christmas cantata Sun. morning

A Christmas cantata, presented each holiday season as a gift to the community by members of the choir of the Protestant Congregation of the All Faith Chapel, has been scheduled on Sunday at the 10 a.m. worship service.

This all-musical service will be directed by Dovie Leonard during a presentation of "The Night of Miracles," a cantata for Christmas that was written by John W. Peterson.

The choir will be accompanied by Ray Blume, organist, and Shirley Helmick at the piano. Featured soloists will be Sandra Raines, Sam Haun, Bob Huey and John Strommen. Narration during the program will be handled by Mrs. Douglas Heitschmidt.

MOVIES

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

Regular starting time 7:00 p.m.

FRIDAY, SUNDAY	DECEMBER 9, 11
"TRADING PLACES"	
Starring Dan Aykroyd and Eddie Murphy (Comedy, rated R, 116 min.)	
SATURDAY	
"PARTNERS"	
Starring Ryan O'Neal and John Hurt (Murder Mystery/Comedy, rated R, 92 min.)	
MONDAY, WEDNESDAY	
"FLASHDANCE"	
Starring Jennifer Beals and Michael Nouri (Drama/Music, rated R, 95 min.)	
FRIDAY	
"JAWS II"	
Starring Dennis Quaid and Bess Armstrong (Drama, rated PG, 95 min.)	

U.S. Government Printing Office:
1983—No. 56

From: _____

To: _____

PLACE
STAMP
HERE

Check on car battery condition during winter

Now that winter is here, it would be wise to make a close check of your car battery, suggests the Automotive Information Council.

If the battery is more than 4 years old and there are signs of weakness, such as slow cranking of the engine or dim headlights, it is probably time to replace it. A weak battery may not make it through the winter.



NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

December 9, 1983

Vol. XXXVIII, No. 48

NWC assists DFG in capture, move of 25 bighorn sheep



FREEDOM! — A ram bounds off to its new home at the Eagle Crags (background) as soon as it is released from the crate unloaded from one of the two NWC Search and Rescue helicopters used to transport the animals. — Photo by Mickey Strang

ADP services contract phase in period ends

Completion of a 60-day phase-in period for the Automatic Data Processing (ADP) services contract awarded recently to the Computer Sciences Corporation is fast approaching.

This is a three-year contract calling for work that may cost up to \$37 million, and there are two one-year extensions possible. According to Bruce Wertenberger, the Center's ADP Resources Manager, the awarding of this contract culminated more than three years of effort to define the needs, reduce the needs to a workable scope, and then get estimates of manhours needed from various departments at NWC who were the potential users of this service.

Wertenberger (Code 01A1) headed the contract evaluation team composed of nearly 40 employees from various NWC departments. Their work was done last February and March, and there was a review of the team's proposals that was carried out in August.

Prior to soliciting for offers, the contract also was reviewed and approved by the Deputy Undersecretary of the Navy for Financial Management, and there was a separate approval process in which the Assistant Secretary of the Navy for Shipbuilding and Logistics was involved.

According to Bryan Hill, head of the NWC Research Department's Technical Requirement Support Branch, the ADP services contract also was reviewed four times by the Naval Material Command, twice by the Naval Data Automation Command, and once by the Chief of Naval Operations.

In addition, there was an on-site review that was carried out by Dr. Allen Beutel, Navy Special Assistant for Data Automation, and the contract also went through a separate review and approval process that was handled by the Naval Regional Contract Center in Long Beach.

Phasing in of this contract (establishing the costs for the work) has had to be done, while at the same time insuring that simultaneously all of the multitude of ADP services (including the processing of substantial quantities of scientific and financial

(Continued on Page 4)

Twenty-five bighorn sheep, 8 rams and 17 ewes, are happily cavorting in the Eagle Crags on the Center's Mojave B range as a result of a coordinated operation last weekend by the California Department of Fish and Game (DFG) and the Naval Weapons Center.

The desert bighorn sheep (*Ovis canadensis nelsoni*) had traditionally ranged throughout the rocky areas of NWC lands, but population declined as herds of feral burros increased. No desert bighorns have been spotted in any animal counts at China Lake for at least five years.

The removal of the burros from Navy lands has made possible the re-introduction of bighorn sheep to their traditional home.

The operation was planned and coordinated by Dr. Tom McGill, a natural resources specialist in the Environmental Branch of the Public Works Department, and Vern Bleich and Bill Clark of the DFG, as well as the DFG's Richard Weaver, a renowned bighorn sheep expert.

DFG supervised the capture of the animals and their health checks. NWC personnel then assumed responsibility for transporting them from the capture sites to their new homes.

Base camp for the first three days of the operation (Dec. 2-4) was near the Old Dad Mountains in San Bernardino County south of the community of Baker. The site was then moved to the Marble Mountains further south on Monday.

More than 30 DFG, Forest Service, NWC personnel and volunteers operated the base camp. Each day net crews were flown by helicopter to sites in the mountains where nets could be strung across canyons or in high saddles.

Nets used at the three sites were 100 feet long, 8 feet high, and consisted of 12-inch rope mesh.

Don Landell, of Landell Helicopter Service, then used his jet ranger helicopter to herd the animals towards the nets. Once the animal was entangled in the net, the net

Tech Director Award presented

Model to determine air target damage devised

Mark Alexander and Thomas Zulkoski, two employees in the Ordnance Systems Department's Warhead Development Branch are the recent recipients of the NWC Technical Director's Award.

The presentation to Alexander and Zulkoski by B. W. Hays took place in the conference room of the Conventional

Weapons Building. The ceremony was attended by Capt. K. A. Dickerson, NWC Commander; Dr. L. H. Smith, head of Code 32's Conventional Weapons Division, and a roomful of co-workers of the honorees.

Alexander and Zulkoski were singled out to receive the Technical Director's Award for their outstanding contributions in the



CONGRATULATIONS OFFERED — B. W. Hays, Technical Director (at right) and Capt. K. A. Dickerson, NWC Commander, congratulate Mark Alexander and Thomas Zulkoski, respectively, the two latest recipients of the Technical Director Award. Looking on at left is Dr. L. H. Smith, head of the Conventional Weapons Division in the Ordnance Systems Department. — Photo by PHAN Rebecca Gill

amine each one.

Bighorns were weighed, measured, sex and age determined, and had their temperatures taken. A blood sample was drawn from each bighorn and each received a shot of penicillin and vitamin A to counter stress induced respiratory troubles. Each was also checked for parasites.

The blood will be studied at DFG's Sacramento laboratory to determine whether selenium levels are adequate for proper lambing and lamb survival, and also a genetic check will be made to determine the amount of inbreeding. If these sheep prove to be excessively inbred, herds from

(Continued on Page 5)

development and validation of a multiple fragment damage model for air targets. Both men received an engraved paperweight, a letter of commendation, and a special stipend that accompanies this special form of a Superior Achievement Award.

According to Carl Schaniel, head of the Ordnance Systems Department, who nominated Alexander and Zulkoski for the TD Award, the multiple fragment vulnerability model provides a more accurate representation of the warhead damage mechanism and its interaction with the target.

"These data have laid the foundation for an understanding of a phenomenon that will revolutionize the design of warheads for defeat of air targets," Schaniel wrote in recommending Alexander and Zulkoski for the Technical Director Award.

Over a period of several years, Alexander developed a generalized multiple fragment effects model with the capability of predicting the required warhead fragmentation characterization to defeat a specified target.

For his part, Zulkoski contributed the impetus to validate the newly developed multiple fragment impact model through realistic demonstrations of how the model

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AGREEMENTS REACHED — Federal, state, county, and local officials gathered last week to sign two memoranda of understanding, one for the use of the Emergency Broadcasting System in the Indian Wells Valley and the other for the establishment of an Emergency Operation Plan. Signers included (l. to r.), Beth Quigley, radio station KLOA; Geary Taylor, Director of Emergency Services for Kern County; Capt. K. A. Dickerson, NWC Commander; Mayor Ron Cheshire, City of Ridgecrest; Capt. Al Gutierrez, Kern County Sheriff's Office; and Lt. Joseph Whitby, Commander of the Mojave/Ridgecrest area California Highway Patrol. Looking on (far left) is Dick Johnson, NWC Director of Safety and Security.

— Photo by PHAN Rebecca Gill

Mobile blood bank schedules visit to Ridgecrest Tuesday

Another of the regularly scheduled visits to Ridgecrest by the Houchin Community Blood Bank's mobile unit from Bakersfield will take place on Tuesday from 1 to 6 p.m.

Pints of blood contributed to the Indian Wells Valley's Advanced Fund will be collected at the Ridgecrest Elks Lodge, 200 E. Church St.

Individuals may designate the person to whom their blood is to be given, or contribute a pint of blood to the IWV Blood Bank's Advanced Fund for whoever may need it.

Those who give blood in a particular patient's name must follow up and contact Mrs. Thoms by calling 375-4323, since she is the only person in this part of Kern County who can arrange for the release of blood from the Houchin Blood Bank.

On Tuesday, prospective blood donors will be checked by a nurse at the blood bank. It has been determined that, in most cases, it is permissible to consume a small amount of food before donating blood. This will reduce the chance of feeling faint at the time that blood is being drawn.

Donors are still asked, however, to refrain from consuming fatty food or alcohol for a minimum of three hours before giving blood. Those who are taking any kind of medication should let the nurse know what they are taking and the dosage.

Preliminary total in CFC fund drive reaches \$165,749

Loretta King, coordinator for the Combined Federal Campaign fund drive that finished on Nov. 30, happily reported a preliminary total of \$165,749.20 had been gathered, and that a small amount of pledges still remained to be counted. Donors represented 37 percent of China Lake personnel.

"Since we were so limited in time in conducting the drive because of its late start, I feel that this success is due equally to the generosity of Center personnel and to the hard work of the key personnel who served as contact for their groups," said Mrs. King.

Having a total of 120 agencies to which donors could designate funds also helped the success of the drive, she believes.

A final report on the CFC will be made in next week's Rocketeer.

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake

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NWC Commander

B. W. Hays
Technical Director

Dennis Kline
Public Affairs Officer

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Associate Editor

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Staff Photographers



News Stories deadline Tuesday, 4:30 p.m.
Photographs Tuesday, 11:30 a.m.

The Rocketeer receives American Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NAVSO P-35 revised May 1979. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in The Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003. Phones 3354, 3355

Promotional opportunities

Applications (Standard Form 171) should be put in the drop box at the Reception Desk of the Personnel Dept., 505 Blandy. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current permanent NWC employees only. All others desiring employment at NWC may contact the Employment Wage & Classification Division, Code 092 Ext. 2264. 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. Advertising positions in the Promotional Opportunities column does not preclude the use of alternative recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DoD Program for the Stability of Civilian Employment. The minimum qualification requirements for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook X-118: those for all wage system positions are those defined in OPM Handbook X-118C. Applicants will be evaluated on the basis of experience, training, education, and awards as indicated in a written record consisting of a SF-171, at least one supervisory appraisal if it can be obtained, and any tests, medical examinations, interviews, and supplemental qualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

Announcement No. C-42-4, Mechanical Engineering Technician, DT-802-2, PAC No. 824591N, Code 42117 — This position is located in the Mechanical Ordnance Support Section, Ballistics Test Branch, Ordnance Test and Evaluation Division, Range Department. The incumbent assists in setting up and conducting propulsion and related static ordnance tests throughout the general Skytop test area. Also, the incumbent is involved in the fabrication, repair, and modification of test fixtures, hardware, and support equipment. **Job Relevant Criteria:** Knowledge of ordnance devices and materials; knowledge of general test hardware, fixtures, and handling equipment; ability to work well with personnel at all levels. Promotion potential to DT-3.

Announcement No. C-42-4, Mechanical Engineering Technician, DT-802-2, PAC No. 824591N, Code 42117 — This position is located in the Mechanical/Ordnance Support Section, Ballistics Test Branch, Ordnance Test and Evaluation Division, Range Department. The incumbent assists in setting up and conducting propulsion and related static ordnance tests throughout the general Skytop test area. Also, the incumbent is involved in the fabrication, repair, and modification of test fixtures, hardware, and support equipment. **Job Relevant Criteria:** Knowledge of ordnance devices and materials; knowledge of general test hardware, fixtures, and handling equipment; ability to work well with personnel at all levels. Promotion potential to DT-3.

Announcement No. C-41-20, Equipment Specialist, DS-1432-3, PAC No. 824591E, Code 4132 — This position is located in the Systems Engineering Branch, Engineering Support Division, Aircraft Department. Incumbent serves as QF-86 Aircraft Material Manager, and as such will control QF-86 parts inventory, develop and maintain parts listing, and schedule intermediate and depot level components and parts for repair. This position requires substantial interface with DON, DoD, contractor personnel for the purpose of locating inventory assets. The incumbent will develop and implement a spare parts preservation program, maintain aircraft logs and records, and act as a contract technical liaison for procurement and repair items. The materials manager will provide ILS support for the QF-86 program including operation of all warehouse facilities and coordination of parts transportation. Additional assistance will be required for the maintenance and review of technical data associated with the procurement of spares and repair parts. **Job Relevant Criteria:** Knowledge of supply systems; inventory techniques; government contract management; ability to prepare technical proposals and evaluate contractor bids and costs. Ability to set up and conduct business meetings, and the ability to communicate both effectively orally and in writing.

Announcement No. 36-92, Interdisciplinary Electronics/Mechanical Engineer, DP-430/855-2/3, Code 3626 — This position is located in the Control Design Branch, Systems Engineering Division, Engineering Department. The incumbent will perform engineering design and production support of missile servo control systems and associated

Secretarial opportunities

This column is used to announce secretarial positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and are positions increase in grade, administrative functions become predominant. At the higher levels of secretaries apply a considerable knowledge of organization, its objectives and lines of communication. Depending on grade level, typical secretarial duties are implied by the job relevant criteria indicated below.

Unless otherwise indicated, applicants will be rated against the job relevant criteria indicated below. A supplemental form is required and may be obtained at Room 100 in the Personnel Building. **Job Relevant Criteria:** Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to review outgoing correspondence; ability to compose correspondence and/or to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize workload of clerical staff processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

Announcement No. 36-91, Secretary (Typing), GS-318-3, Code 3625 — This position serves as secretary to the head, Missile Guidance Branch, Systems Engineering Division, Engineering Department. Status eligibles may apply.

Announcement No. 36-85, Secretary (Typing), GS-318-3/4, PD No. 833601N, Code 3621 — This position serves as secretary to the head, Mechanical Systems Branch, Systems Engineering Division, Engineering Department. Promotion potential: GS-4. Status eligibles may apply. This is a reassignment and previous applicants need not reapply.

Announcement No. 38-022, Secretary (Typing), GS-318-4/5, PD No. 8038073N, Code 3871 — This position is located in the Computer Services Branch of the Computer Sciences Division, Research Department.

Announcement No. 00-025, Secretary (Typing), GS-318-4/5, Code 03 — This is an intermittent position located in the Office of the Laboratory Director and provides support to that office.

Announcement No. C-42-45, Secretary (Typing), GS-318-4/5, PD No. 824591N, Code 4235 — This position is in the Range Department's Range Development Branch. Status eligibles may apply.

test systems. Other responsibilities include product improvement analysis, technical liaison on contracts, and engineering validation of missile documentation packages. **Job Relevant Criteria:** Knowledge and skills in design, analysis, test, and production practices of electromechanical servos and components; knowledge and skills in test instrumentation and writing and executing computer programs; ability to interface with program office, sponsor, and contractor personnel; ability to communicate effectively, both orally and in writing; and knowledge of computer control of test and measurement equipment, reliability, and quality assurance. Promotion potential: DP-3.

Announcement No. 36-90, Quality Assurance/Electronics Technician, DS/DT-1910/856-3, PAC No. 8436534/8436535, Code 3681 — This position is located in Soldering Technology Branch, Product Assurance Division, Engineering Department. The incumbent of this position will apply and implement quality assurance/quality control techniques and principles to ensure that supplies and services delivered to the government meet quality functions throughout the product life cycle. **Job Relevant Criteria:** Knowledge of procedures, standards and instructions applicable to Government Soldering Programs; ability to communicate effectively, both orally and in writing; ability to perform contractor quality assurance surveys and audits, report the findings and determine any corrective action to be taken. Status eligibles may apply.

Announcement No. 33-045, Electronics Engineer, DP-455-1/2, Code 3327 — This position is located in the Short Range Missile Vase Branch. Incumbent plans and directs static and dynamic field tests including data reduction for the EX-412 Target Detector program. Tests will include sea surface measurements at Scripps Institute and the Navy tower off the coast of San Diego. **Job Relevant Criteria:** Ability to plan and direct field tests. Knowledge of data acquisition and reduction. Experience with infrared detectors is desirable.

Announcement No. 38-023, Computer Operator, GS-332-7, Code 3872, PD No. 8238037/8238038, Code 3872 — (Permanent) Two vacancies, both for Second Shift (1600-2400 with no lunch hour). Positions are located in the Computer Services Branch, Computer Sciences Division, of the Research Department. Will serve as a computer operator in the operations of major on-line peripheral equipment and associated devices. **Job Relevant Criteria:** Knowledge of data processing; ability to make sound decisions; ability to work under pressure. Promotion potential to GS-9. Promotion to higher level is not guaranteed.

Announcement No. 12-009, Operations Research Analyst, DP-1515-1/2/3, PAC No. to be assigned, Code 12 (Multiple Vacancies) — These positions are located in the Weapons Planning Group. The incumbent will be assigned to one of the program areas and will be involved in analysis studies covering a wide range of subjects. Typical duties involve: analyzing performance of existing and proposed designs of weapons and components of weapons; investigating weapon requirements; projecting probable threat responses; or determining the future course of naval aviation and the Center. The results of these efforts are reported both in writing and oral presentations. **Job Relevant Criteria:** Facility for developing clear logical arguments; ability to gather relevant information to create analytical models, and to draw useful, supportable conclusions. Some familiarity with operations research, costing, programming and military operations and tactics is helpful. This position could be filled from a broad range of engineering, scientific, or management disciplines.

Announcement No. 31-158, Computer Specialist, DS-1, PAC No. 8431533, Code 3115 — This position is in the Software Engineering Environment Branch, Avionic Facilities Division, Aircraft Weapons Integration Department. Incumbent will assist in the design, development, analysis, installation and management of computer-based hardware/software systems. The incumbent's duties will be in support of the two VAX 11/780 and one IBM 4341-based facilities residing in Code 3115. The implemented systems are used as aides for the development of aircraft embedded operational flight programs (OFF), software tools for OFF development, and analysis and presentation of flight data. **Job Relevant Criteria:** Experience in the use and operation of a computer support center; knowledge of and skill in VAX EDT editor and command language; knowledge of ADPE facility operational procedures; ability to interact effectively with facility users; knowledge of supply procedures for the procurement of ADPE; knowledge of NWC ADP equipment security, control, and procurement

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DIVINE SERVICES	
PROTESTANT	
Sunday Worship Service	1000
Sunday School (Annexes 1, 2 & 4)	0830
Bible Study (East Wing, Wednesdays)	1130-1230
ROMAN CATHOLIC	
Sunday Mass	0830
Daily Mass (except Sunday)	1135
Confessions	1630-1700 Friday
Religious Education Classes (Annexes 1, 2 & 4)	0745-0815 Sunday
	1000 Sunday
JEWISH	
Friday (East Wing)	1930
UNITARIAN	
Sunday (Annex 95, as announced)	1930

BHS boys 2nd in SLO tourney . . .

(Continued from Page 6)

13; and John Kirchner, the tourney's "most valuable player," with 12.

Means scored 23 points, 14 of them in the second quarter, to lead the Burros' boys to their 64-60 overtime win over the San Luis Obispo tourney host team.

Due to large part to the effort by Means, the Ridgecrest team outscored SLO 18-7 in the second period and left the floor at halftime leading 29-21.

The 8-point difference was made up by the SLO cagers in the third and fourth periods of play, and the two teams were locked in a 56-56 tie at the end of regulation playing time.

With the game's final outcome on the line, the Burros outscored SLO 8-4 in the overtime period to win it 64-60.

In addition to Means, leading scorers for the Ridgecrest team were Mike Bailey (11), Monty Zarlingo (9) and Joe Day (8).

Adam Gross, 6 ft., 5 in., center for SLO,

Exercising is a sound investment in good health

Exercising is a sound investment in good health. And the first step to starting an exercise program is a thorough medical checkup.

If you haven't had an exam in the past year, or if you are past 30, a checkup is



always recommended before starting an exercise program.

To help you find out what shape you're in, and at what level to start a fitness program, the President's Council on Physical Fitness and Sports recommends taking the wal test—that is, finding out how many minutes you can walk at a brisk pace without undue difficulty or discomfort.

If you can't walk briskly for five minutes without discomfort, then start exercising with a very basic walking and resting routine.

If you can walk more than five minutes, but less than ten, you can begin walking at a brisker pace and for a longer period of time.

If you can walk for the full ten minutes, but are somewhat tired and sore as a result, you should start with a gentle combination of walking and jogging. Set aside at least 30 minutes a day for warm up activities and planned exercise.

Youth Basketball League coaches to meet Dec. 15

A meeting of Youth Basketball League coaches has been scheduled next Thursday, Dec. 15, starting at 5 p.m. in the conference room of the Recreation Services Department's office building at Bennington Plaza.

All coaches are required to attend in order to pick up their team rosters and schedule of games.

The first round of play in the Youth Basketball League will begin on Saturday, Jan. 7. Prior to that time, team practice sessions, which are limited to one hour per week, will be held Monday through Thursday.

Energy conservation tip

Let your dishes air dry after the rinse cycle if you dishwasher does not have an automatic dry switch. Turn off the control after the final rinse and prop the door open a little.

led his team with 23 points and one of his teammates, Leonard Lowndes tallied 12.

The tourney opener between Burroughs and East Bakersfield was close well into the third period of play with the Burros clinging to a 3-point lead.

The major turning point in the contest came when back-to-back 3-point plays by Means and Bailey fattened the BHS lead to nine, and from there the Ridgecrest team expanded its lead to as much as 15 points late in the game.

With a comfortable advantage, Coach Larry Bird substituted freely to give his reserve players a chance to see action, and the East Bakersfield Blades were able to cut the BHS lead to 6 points with less than a minute of time left to play. By the final buzzer, however, the Burros had opened up a 10-point lead of 62-52.

Means was the game's high-point man with 8 field goals and 5 of 7 free throws for a total of 21. Allan Celestine, who scored all 11 of his points in the second half, helped to the Burros to break the game open, while Dan Gratton also hit 11 for the Ridgecrest team in the East High game.

Elks Lodge bowlers move into 1st place in Premier League

Another team, the Elks Lodge, has moved into first place in the Premier (scratch) League, following Monday night's action at Hall Memorial Lanes.

The Elks moved into the top spot, a single point ahead of the Raytheon Sidersiders, and 6 points in front of last week's leader, the Thrifty Wash kegler squad.

High team game for the night—a total of 1041—was posted by the Thrifty Wash Laundry keglers, while the Elks Lodge came through with the high team series score of 2972.

The two top individual bowlers were Allen Smith and George Bowles, who tied for high series honors with identical scores of 660. Others with 3-game totals over the 600 mark were:

George Barker (659), Jim Bowen (651), Brad Royer (617), Ron Jackson (613), Larry Nolan and Gene Lish (611), Randy Morris (607), and Eddie Davis and Ted Zissos (602).

Those with single games scores over 220 were Bowen (276), Nolan (254), Barker (253), Bowles (243 and 225), Smith (241 and 237), Mike Good (240), Earle Roby (236), Morris (235), Floyd Hoisington (233), Tim Herbstreit (226), and Lish (223).

Current standings in the Premier League are:

Team	Won	Lost
Elks Lodge	192.5	132.5
Raytheon Sidersiders	191.5	133.5
Thrifty Wash Laundry	186.5	138.5
Buggy Bath	170.5	154.5
Hideaway	168.5	156.5
Modern Trophy	154.5	170.5
Joseph's Italian Gardens	145.5	179.5
Sport Shack	144	181
Olympia Beer	141.5	183.5
The Place	130	195



FLU SHOTS ADMINISTERED — Military personnel assigned to the Naval Weapons Center and to Air Test and Evaluation Squadron Five (VX-5) recently received flu shots that were administered by HM2 Doris Berry, a preventive medicine technician assigned to duty at the Branch Medical Clinic of the Navy Regional Medical Center, Long Beach. The sailor shown being inoculated with a flu-preventive vaccine is ATAA Louis Coates.



Anyone who has information that could lead to the apprehension and conviction of those committing any of the following crimes is asked to either telephone the Secret Witness number, 446-3949, or to write to the Secret Witness, P. O. Box 192, Ridgecrest, CA 93555.

The caller will be given a code number; if the lawbreaker is caught and convicted, the code number is the basis for the caller's being able to claim the reward offered.

On Oct. 25 between 8:05 and 9:15 a.m., an unknown male telephoned the Naval Weapons Center Communications Center and made three false bomb threats. The individual indicated that a particular warehouse at NWC was going to blow up before noon on that day. Reward for Secret Witness: \$100.

On Nov. 27 or 28 the residence of Gregory W. Landeck on Johnson Street was burglarized. A television set, video cassette recorder, stereo receiver, turnable and guitar were taken. Reward for Secret Witness: \$100.

Sometime during the night of Nov. 25-26 an illuminated sign in front of A-1 Realty on South China Lake Boulevard was damaged by vandals. Reward for Secret Witness: \$50.

During the night of Nov. 12-13 the United Methodist Church on North Norma Street was burglarized and vandalized. Reward for Secret Witness: \$50.

Arson damage was done to a park bench in Kern Regional Park at 9:25 a.m. on Nov. 15. Reward for Secret Witness: \$50.

During the night of Dec. 1-2, Cates Recycling Center at 1500 N. Inyo "A" was burglarized and tools were taken. Reward for Secret Witness: \$100.

On the night of Dec. 1-2, Williams Import Auto Service at 1500 N. Inyo "C" was burglarized and automotive tools were taken. Reward for Secret Witness: \$100.

A series of auto burglaries has occurred when the automobiles were parked in driveways and car stereos and speakers taken. Reward for Secret Witness: \$50.

On Dec. 3 during a burglary at 527 W. Church St., credit cards, money, and a nylon tote bag were taken. Reward for Secret Witness: \$50.

Rain, snow bring game birds to lower level of desert canyons

The rain and snow brought some chukar down into the Jawbone Canyon area last weekend, where a couple of happy hunters were able to bag the birds. Other hunters in pursuit of quail and bear were also out in force.

Department of Fish and Game wardens suggest that anyone who plans to hunt along the road between Jawbone Canyon and Kelso Valley travel with great care; Satur-

day's storm just about wiped out all traces of the road.

Bear hunters will probably have some success if they hit the Landers Meadow and Grouse Meadow area, and, road and weather permitting, Lamont Valley, Long Valley and Rockhouse Basin.

Quail and chukar can be found in some of the eastside canyons of the Skodie Mountains such as Sage and Cow Heaven. The snows have brought the birds down where they can be found more readily.

Duck hunters who braved the elements on Saturday came back with a bag of mallards and teal if they hit the potholes around the south fork area of Lake Isabella.

Opportunities . . .

(Continued from Page 2)

approval requirements. This position has promotion potential to the DS-2 level; however, promotion is not guaranteed.

Announcement No. 32-091, Interdisciplinary, Chemical/Mechanical/Industrial/General Engineer, Physicist, Chemist, DP-801/820/892/1318/1320-3, PAC No. 843281E15, Code 3245 — This position is located in the Explosives Branch, Conventional Weapons Division, of the Ordnance Systems Department. Incumbent is head of the Explosives Processing Section and will supervise the revitalization of an experimental process development and explosives loading capability. Responsibilities include the maintenance, management and modernization of an explosives plant. Must have engineering knowledge and skills necessary to operate a processing plant and be familiar with specification processes used in explosives procurement and warhead development loading. **Job Relevant Criteria:** Knowledge of explosives chemistry and processing techniques. Ability to design and supervise the implementation of tooling, fixtures, and processes. Ability to supervise and interact with all levels of employees. Interest and support of the Federal Equal Employment Opportunity policies and goals. Ability to communicate orally and in writing. Experience in fiscal management and manpower planning.



Bakersfield High knocks off Burros boys' varsity 72-59

The early season for the Burroughs High School boys' varsity basketball team dropped to the .500 mark Tuesday night as the result of a 72-59 loss to the Bakersfield High Drillers in a game played at Bakersfield.

The game was a toss-up with the Burros leading 34-32 at the half, after falling behind 20-11 in the first quarter.

A switch by the Drillers late in the third quarter to a man-to-man defense, coupled with a lack of patience in shot selection and an outbreak of turnovers on the part of the Burros, did in the Ridgecrest team, Coach Larry Bird reported.

Bakersfield outscored Burroughs 24-16 and 16-9 in the third and fourth periods of play to win by a 13-point margin.

Daniel Means and Mike Bailey were the top scorers for Burroughs with 16 each, while Monty Zarlingo chipped in 10.

The Drillers' second half charge was led by Clem Dixon and William Campbell, who tallied 10 points each and ended up with 19 and 12, respectively. Other Bakersfield players in the double-figure scoring column, and their totals, were Grover Perry (13), and Jeff Garrett and Larry Moore (10 each).

The BHS boys' varsity will be home tonight for a game against Victor Valley. Tip-off time is 8 o'clock.

Meet your

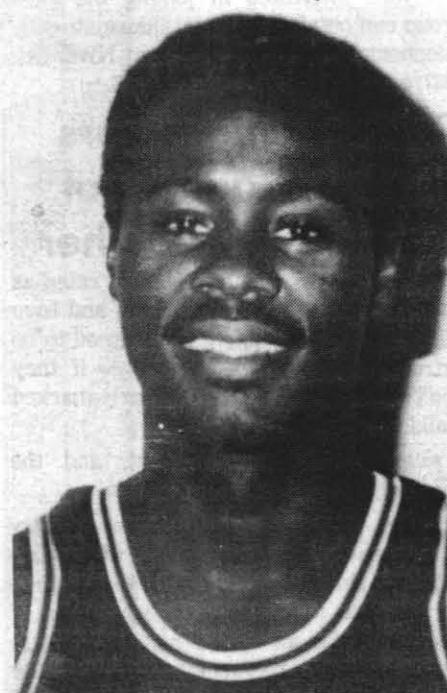
NWC varsity basketball team

Back for another season (his fourth) as a member of the NWC varsity basketball team is Basil Robinson, who is assigned to duty with Air Test and Evaluation Squadron Five (VX-5).

Fans who attend basketball games played at the Center gym by the NWC varsity will be able to quickly spot Robinson, the team's point guard who calls out the offensive formation while bringing the ball into the forecourt of the opposing team.

Robinson's interest in playing basketball is linked to his active duty military service, which is approaching a total of five years. A sprinter, he favored track and field competition while in high school and first began playing basketball on a military team while attending the Naval Technical Training Center at Memphis, Tenn.

Robinson, an Aviation Structural Mechanic (Environmental Systems) 3rd Class, scored 19 points and played a leading role in the China Lakers' 93-89 over the Barstow Marines last Saturday.



Basil Robinson

NWC varsity cagers defeat Barstow team 93-89

The NWC varsity basketball team broke into the win column for the first time in the 1983-84 season by posting a 93-89 win over the Barstow Marines in a game played last Saturday afternoon at the Center gym.

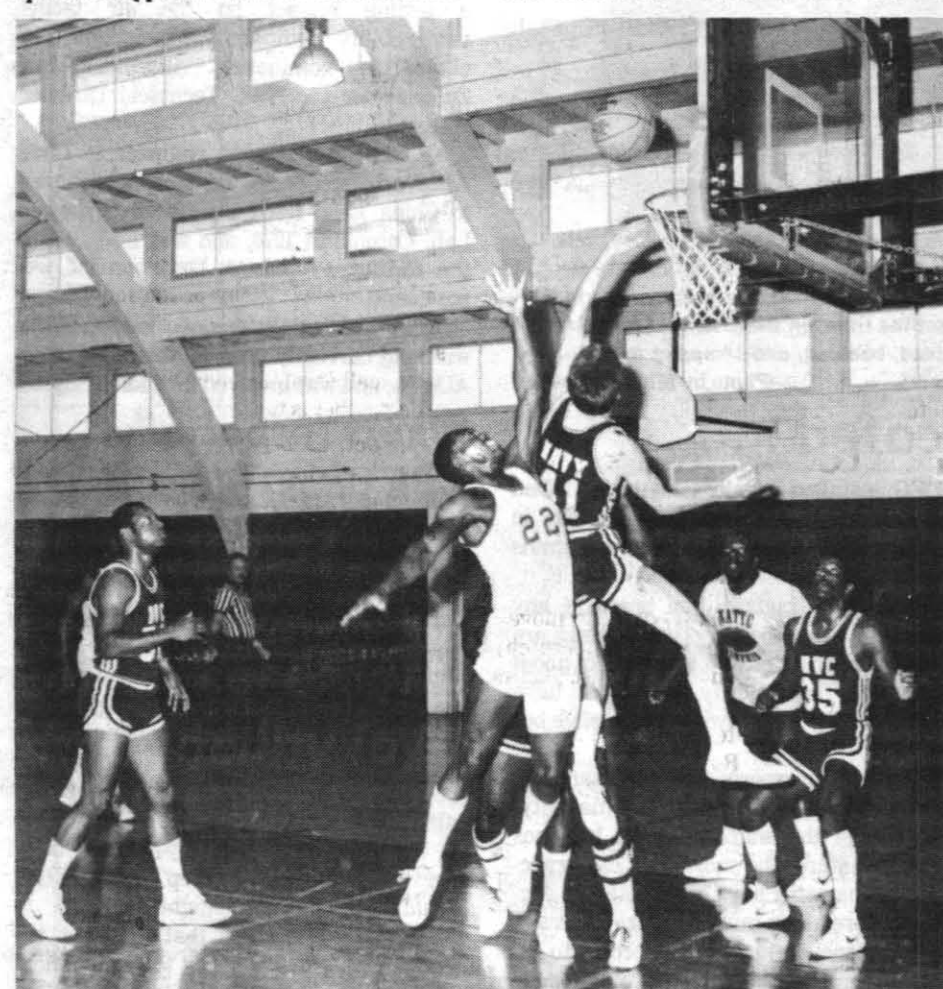
The China Lakers started off strong and built up a 17-point halftime lead of 53-36. The NWC hoopsters led from the opening tip-off and built up a 14 point advantage of 28-14 midway through the first half.

Better all-around team play by the Navy squad was apparent in the first 20 minutes of

action, during which the top scorers for China Lake were Phil Patton with 15 and Basil Robinson, who tallied 12.

Dominant player for the Barstow Marines in the first half was Melvin Hall, the Barstow team's 6 ft., 7 in., center, who was the tallest player on the floor. He had 16 points at the mid-game break.

The lethargy that had marked the Marines' play in the first half changed suddenly after the halftime intermission. The visitors from Barstow came out and



BATTLE FOR BALL — Phil Patton, of the NWC varsity basketball team, has the inside position as he jousts for possession of the ball with B. J. Potts (No. 22) of the Barstow Marines. Waiting to go for a possible rebound is Darren McPherson (at right), who led the China Lakers with 25 points in their 93-89 win over the visiting Marines.

rattled off 10 unanswered points in the first two minutes of play to cut the NWC team's lead to 7 points (53-46).

The two teams traded baskets, with the Marines having slightly the better of it until they tied the score at 61-61 with 11½ min. left to play in the game.

The score was tied two more times during the next 3 minutes of action before Darren McPherson got a hot hand and ran off 9 points for the Navy to 2 for the Marines during a surge that boosted NWC into an 82-75 lead.

The momentum then switched back to the Marines, who took the lead for the first time in the game on a basket by Melvin Hall that gave the Barstow team the edge by a slim margin of 85-84.

With the game's outcome on the line, McPherson hit two baskets and Otis Fisher pumped in one for the NWC varsity, and the China Lakers were back on top 90-87 with 2½ minutes left until the final buzzer.

Strategy called for going to a slow-down, ball control type of offense, which the Barstow Marines were unable to disrupt and began to go the intentional foul route in order to have a chance at getting their hands on the ball after the free throw attempt.

The game's final three points were tallied for the NWC varsity by Basil Robinson, who clicked on three out of four free throws as the China Lakers held off the Marines to win by a 4-point margin of 93-89.

The Navy team was led in the scoring department by McPherson, who tallied 16 points in the second half to go with 9 in the first half for a total of 25. Other China Lakers in the double-figure scoring column were Basil Robinson, Otis Fisher and Phil Patton, with 19, 17, and 15 points, respectively.

The game's high point man was Melvin Hall of the Barstow Marines, with 30, while his teammates B. J. Potts and Keith Reddock came through with 20 and 12 points.

Next action for the NWC varsity basketball team will be a rematch with the Barstow Marines at 12 noon tomorrow at Barstow.

SLO tourney runner-up spot goes to BHS boys

Burroughs High School's varsity boys' basketball team garnered second place last week in the San Luis Obispo Tournament, and two of the Burros were chosen on the all-tourney team.

Daniel Means, stellar guard for Burroughs, was picked for the second year in a row on the tourney all-star squad — being joined as well by teammate Mike Bailey this year.

The Burros (a CIF 2-A Division School) were defeated 58-52 in the tourney tilt at San Luis Obispo by Crespi High, a Division 4-A school from San Fernando.

Before losing to Crespi in the tournament

finals, the Burros boys knocked off East Bakersfield High 62-52 in the opening game of tourney play, and downed San Luis Obispo High 64-60 in overtime in the semi-final round.

A 16-8 first-quarter deficit proved costly to the Ridgecrest team in the tournament championship clash against Crespi, as the Burros were unable to gain enough ground in the remaining three periods of play to win the game.

The Burros trailed 32-24 at the start of the second half, and fell behind by as much as 15 points in the third period before battling back with clutch free-throw shooting (6 out

of 7) to cut the Crespi team's lead to 8 points (46-38) as the fourth quarter got underway.

The Crespi team failed to hit a field goal in the final 8 min. of action, but instead scored all of its points (12) at the free throw line. On the other hand, the Burros were unable to collect on any of their charity tosses in the fourth period, but did chalk up seven field goals for 14 points.

Means led the Burros with 23 points on 10 field goals and 3 free throws in the Crespi game. The tourney champs had three players in the double-figure scoring column. They were Hunter Knapp, 24; Mike Yost,

(Continued on Page 7)

Burroughs girls lose tourney title in overtime

A 2-point loss in overtime to Palmdale denied the Burroughs High School girls' varsity basketball team the championship of the Antelope Valley Tournament staged last week in Lancaster.

Although they didn't win their first tourney of the 1983-84 season, three of the BHS girls were chosen on the AV Tournament all-star team. They are Kristel Kinkennon, "most valuable player," and Charlene Kessler and Connie King.

The championship tilt with Palmdale, one of the Burros' Golden League foes, saw the BHS girls forge ahead 27-21 at the half, after the score was tied 13-13 at the end of the first quarter.

The Burroettes maintained a 6-point advantage of 39-33 after three periods of play, but then hit a fourth quarter slump in which they were outscored 12-6. This left the score tied 45-45 at the end of regulation playing time.

In a loosely-played 3 min. overtime period, the BHS girls missed a couple of lay-ups, while the Palmdale Falcons tallied the only 2 points that were chalked up to win the game 47-45.

Leading scorers for Burroughs in the Palmdale game were Kessler, Kinkennon and King, who tallied 12, 11, and 10 points, respectively. High point honors went to Stacy Preter, the Falcons' 6 ft., 2 in., center, who scored 15. Close behind her in the scoring department were Jackie Weddle and Linda Staley, with 13 and 11 points.

Enroute to the tournament championship clash with Palmdale, the BHS girls' varsity basketball team defeated Antelope Valley 63-41 in the semi-final round and trampled Hart High School 45-21 in the first of three games.

The less-experienced team representing Antelope Valley did a commendable job of staying within range of the Burroettes during the first stages of the game, which saw the BHS girls on top by a margin of 32-27 at the half, after leading 16-10 following the first 8 min. of play.

After that, the Antelope Valley girls got themselves into foul trouble, particularly in the fourth quarter when they lost some of their starters and were outscored 19-6.

Kinkennon's 19 points were tops in the AV game, while Cecilia Scanlan, with 15, and

Kessler, who tallied 12, also played major roles in the Burros' win over the Antelope Valley girls.

The Lancaster team's top scorer was Stephanie Hightower, who chalked up 10 points.

The tourney opener was a breeze for the BHS varsity girls' basketball team against Hart, as the Burroettes got off to a 15-3 lead in the first quarter and were never seriously challenged.

The superiority of the BHS girls showed up not only on the scoreboard, but also in rebounds — one of the key facets of the game. The Ridgecrest team snagged 52 caroms, compared to 20 for Hart.

Kessler was unable to play, and Andrea Veatch, a starter at guard, was used only sparingly in the game against Hart. The scoring burden for the BHS girls was carried by Kinkennon, who hit on 5 of 13 shots from the floor for a total of 15 points, and also picked off 11 rebounds.

Also impressive in the rebounding department for the Burroettes was Connie King, who had 11 to go along with 3 field goals and 1 free throw for 7 points.

The Skipper sez



All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. K. A. Dickerson. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.

QUESTION

Civilian — We've been receiving a lot of advertising through the mail and in the paper regarding options for health insurance open season. If there is such an open season, I would appreciate finding out about it from the Navy.

ANSWER

Each November the Office of Personnel Management (OPM) schedules an Open Season for health benefits. During that open season all eligible employees who are not currently registered in a FEHB plan are allowed to enroll and enrolled employees may change from one plan or option to another, or from self-only to self and family, or a combination of both.

The Office of Personnel Management contracts annually with approximately 160 carriers who offer health benefit plans for Federal employees (14 plans are available to NWC employees). Negotiations between OPM and the carrier are usually completed by the end of August at which time most health benefit carriers begin their advertising campaign for the November open season. Traditionally, it's been much later before Activities receive official notification of the open season dates, changes in rates, and open season informational material for employees. When the information is received it is immediately distributed to all employees on-center and is published in the Rocketeer.

This year the open season has been extended through Dec. 16, 1983. Any employee wishing to make a change should go to the Personnel Department, Room 100. Employees who do not want to make any change in their enrollment need take no action during this time.

QUESTION

Civilian Employee — Recently a bike path was added to both sides of South Knox Road between the Public Works compound and the Capehart B housing area. This paving of the bike path and grading the land next to the bike path must have cost a great deal.

The question is why, after two weeks, the bike path was dug up at three locations and not paved over again. This condition makes it difficult for a bike rider because he has to enter into the lanes of traffic to go around the sand pits, which is hazardous. Also, there has been no cleanup maintenance done to the bike path, which is littered with glass, rocks, and debris.

I would like to see if a schedule for street sweeping could be arranged, the sand pits paved, and a wide lane designated "bike path," to separate it from vehicle traffic. Thank you very much.

ANSWER

It does seem ridiculous to tear up new pavement, but we had to do so in three spots to make repairs to existing utilities. As a temporary fix, the holes were backfilled to grade with dirt. A change order is pending (awaiting price quote from contractor) to perform the paving work, which we are not able to accomplish in house. Work accomplishment is tentatively planned during December.

A change order to our street sweeping contract will include sweeping of the bike path. The "sand pit" areas have been repaired through a contractor change order. In addition, the words "Bike Only," indicating the wide lane is a bike path, has been painted at each street intersection.

Change in availability of personnel clerks

In an effort to enable the Personnel Department to more efficiently provide service to all codes and employees, a change in the day-to-day operating hours of the Personnel clerks and assistants (Codes 096 and 097) will occur.

Beginning on Dec. 21, personnel clerks

and assistants will be unavailable for routine business (telephone and walk-in) from 7:30 to 11:30 a.m. on Wednesdays. This uninterrupted work time will enable personnel clerks to provide quicker turnaround time on merit promotion packages, as well as timely processing to pay actions.

To ensure access to the Personnel Service Division, the division secretary will take telephone messages and will refer calls to PMAs or the division head in an emergency situation.

Cooperation with this change in hours for personnel clerks and assistants is requested. The purpose of this move is to enable the Personnel Department workers to better meet the needs of all employees on the Center.

Dr. Derr cited for combustion technology work

Dr. Ronald L. Derr, head of the Engineering Sciences Division in the NWC Research Department, was the recent recipient of a Certificate of Recognition that was presented for his outstanding contributions to combustion technology and service to the Joint Army, Navy, NASA, Air Force (JANNAF).

The presentation took place during the annual meeting of the JANNAF Combustion Subcommittee held at the Naval Postgraduate School in Monterey, Calif.

The purposes of this group are to solve propulsion problems, effect coordination of technology programs, and promote an exchange of technical information in the area of missile, space and gun propulsion.

Since 1970, Dr. Derr has been a member of the steering group for the JANNAF Combustion Subcommittee. This 8-member group oversees all activities within the Combustion Subcommittee, whose mem-



NORTHROP FACILITY DEDICATED — Bill Porter (at right), NWC Test and Evaluation Director, joined Ross Miller, senior vice-president of the Northrup Services Group, for a ribbon-cutting ceremony during last week's dedication of the Northrup facility at the Inyokern airport. Looking on are Les Robison (at left), QF-86 program manager for NWC, and Bob Berghorn, manager of the QF-86 conversion program being conducted by Northrup Services, Inc., at Inyokern. — Photo by PHAN Greg Hogan

Dedication ceremony held at Northrup facility in Inyokern

A brief ceremony for the purpose of dedicating the Northrup Services, Inc., Full Scale Aerial Target Facility at the Inyokern airport was held in the hangar-like structure on Nov. 29.

Converting out-of-service F-86 Sabrejet aircraft of Korean War vintage to pilotless targets for use in missile test work is the purpose of this activity on behalf of the Navy by NSI, a subsidiary of the Northrup Corp.

Ross Miller, senior vice-president for the Northrup Services Group, expressed his pleasure at being able to participate in the dedication program for the facility at Inyokern, which is now fully operational.

"We have a first class crew, a first class facility, we like it here, and we intend to stay here," Miller said about the aircraft conversion program at Inyokern.

W. B. Porter, the Naval Weapon Center's Test and Evaluation Director, represented Capt. K. A. Dickerson, NWC Commander, and B. W. Hays, Technical Director, at the building dedication.

Porter stated that the technology work which has led to what are now referred to as "all attitude targets" began in the 1960s, and it was in the early 1970s when conversion of F-86 aircraft to target drones began.

Mentioned by Porter were some of the NWC employees who played leading roles in this effort, including Curt Bryan, Don Hart and Jay Bornfleth, as well as Harlan Reep, the Navy's premier drone controller who

currently is sharing this effort with Dick Wright. Les Robison, of the Aircraft Department, is the current NWC program manager of the QF-86 program.

"This facility is a testimony to the Northrup effort, and we're pleased the NSI decided to build this facility at Inyokern," Porter said, noting that delivery of the first two full-scale aerial targets was made before the building had been completed.

NSI is under contract to deliver 65 of the aerial targets to NWC over the next five years — some of which will go from here to the Pacific Missile Test Center at Point Mugu.

In addition to Porter, NWC was represented at the building dedication by Capt. J. T. Phaneuf, head of the Aircraft Department, and Loretta King, from the Public Affairs Office.

The Inyokern facility of NSI has 24 employees headed by Robert Berghorn, program manager. Those present for the dedication ceremony could see work in various stages of progress on a half dozen of the full-scale aerial targets.

Northrup Corp. officials, in addition to Miller, who were present for the facility dedication at Inyokern included D.A. McInnis, and W.C. Armstrong, president and vice-president, respectively, of Northrup Services, Inc., in Anaheim, and J.E. Crowmover, Jr., manager of NSI's Applied Technology Center in Sunnyvale, Calif., who served as master of ceremonies.

liaison technologist in the London, England, branch of the Office of Naval Research as a missile propulsion specialist.

As head of the Engineering Sciences Division in Code 38, Dr. Derr is in charge of a multidisciplinary group of research scientists who are involved in conducting fundamental and applied research studies in the general areas of combustion detonation of energetic materials, missile propulsion, explosives ordnance, warheads, and terminal effects.

A prolific writer of published technical papers, Dr. Derr also was a member of both the Propellants and Combustion Technical Committees, and is presently serving on the Solid Rockets Technical Committee of the American Institute of Aeronautics and Astronautics — the nation's largest professional society of aerospace scientists and engineers.

Downed flier taken from wreckage of craft by helo crew

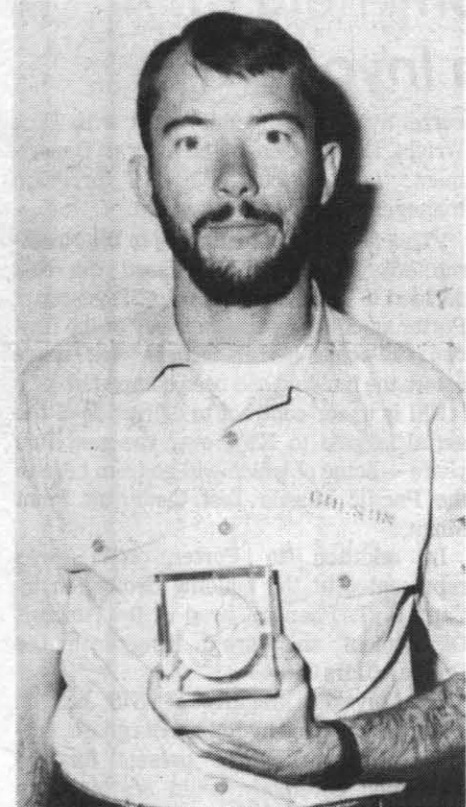
On Wednesday, Nov. 30, the NWC Search and Rescue helicopter crew was called on by the Inyo County Sheriff's office to assist in searching for Hans Nilson, 44, from Los Altos, who was missing following a flight in his ultralight aircraft. He had been missing since Monday, Nov. 28.

Thursday morning the wreckage was spotted by a helicopter from Rocky Mountain Helicopter Service, which had also been called in on the search. The wreckage was located at the 6,500-foot elevation of Happy Canyon in the Panamint Mountains.

NWC's SAR helicopter flew to the site where Nilson was trapped, face-down, in the wreckage. He sustained two broken legs, spinal injuries, internal injuries, and broken ribs. In addition, there were burns on his legs from the gasoline in his ultralight and he suffered from exposure.

He was removed from the wreckage, given emergency medical treatment at the scene, and then flown to the Ridgecrest Community Hospital where he was landed at 1:25 p.m. on Thursday, Dec. 1.

The helicopter was piloted by Lt. Greg Friedrichsen, with crewmen AEAN Mark Keenan, ADAN Larry Clark, and HM3 Mike Bucklew. They were accompanied by Bill Moore, a paramedic from Tri-County Ambulance Service.



RE-ENLISTMENT AWARD — AD1 Kenneth J. Colson, who has been in charge of the Navy helicopter search and rescue (SAR) crew, holds the medal that he received at the time of his recent re-enlistment for another four years in the Navy. The medal is presented to those who re-up if they have less than 12 years of service, but their re-enlistment puts them over the 12-year mark. AD1 Colson was approaching his 12th year of active duty in the Navy at the time of his re-enlistment. He is scheduled to leave NWC for a tour of duty with Helicopter Combat Support Group 11 at the Naval Air Station, San Diego. — Photo by PHAN Rebecca Gill

MAKES LAB by Bill Erwin



THANKS EXPRESSED BY RED CROSS — Cdr. G. F. Herbster and Lt. Dave Feldman, department head and associate department head, respectively, of the Military Administration Department, were the recent recipients of certificates of appreciation for their part in the local fund-raising campaign (held in August) to assist the American Red Cross Disaster Relief Campaign. Caleb N. Wall (at left), station director at George Air Force Base for the American Red Cross, presents the certificate to Cdr. Herbster, while Vivian Heuker, administrative assistant for the Red Cross at China Lake, makes a similar presentation to Lt. Feldman. The two Navy officers were the chairman and co-chairman of a drive that raised more than \$4,000 here to help replenish Red Cross disaster funds that were depleted by the many natural disasters which occurred earlier this year within the continental U.S. — Photo by PHAN Rebecca Gill

Anniversary of Firing Officer Program to be observed Tues.

The 10th anniversary of the Firing Officer Program will be observed at a ceremony to be held on Tuesday at 3 p.m. in the Michelson Laboratory auditorium (Rm. 1000D).

During the ceremony individuals will be recognized for the contributions they have made towards establishing a safety record of a decade without a death or injury in any operation at NWC for which a Firing Officer has been responsible.

All Firing Officers, their supervisors and co-workers are invited to attend. Spouses of Firing Officers are also specifically invited. Badges will not be required to attend the ceremony.

A highlight of the occasion will be the presentation by Capt. K. A. Dickerson, NWC Commander, of a new Center-wide award, the Kit Skaar Award. This award is in recognition of outstanding accomplishment in the safe and effective conduct of test operations while furthering Center objectives.

What's new with telecommunications topic at STC meeting

Everyone who is puzzled about what is really happening in the telephone industry and how it will affect telephone users is invited to attend an open meeting of the Sierra-Panamint Chapter of the Society for Technical Communication (STC) to hear a discussion entitled "Telecommunications Tomorrow." The meeting will be held at the Commissioned Officers' Mess on Tuesday evening.

A social hour begins the evening at 5:30, with the dinner (from the menu) at 6:30, and the program to begin at 7:30 o'clock.

Speakers for the evening will be Ed Hood, Customer Services Manager, and Chuck Horton, Network Systems Superintendent, for the Continental Telephone Company in Ridgecrest.

No advance reservations are required. John Kern, phone 446-2589 or 377-4472, can be contacted for additional information.

The award honors Kit Skaar, former head of the Safety Department, who is now retired. Skaar, himself a chemist, spearheaded the establishment of the Firing Officer training and certification program that has been so dramatically successful.

Firing Officers who have served either five or ten years in that capacity will be honored during the program.

China Lake Police reports . . .

Theft of a wallet containing \$235 from one of the rooms in BEQ-3 was reported on the morning of Dec. 1 to China Lake police.

There was no sign of forced entry into the room where the theft victim had left his wallet in the pocket of a pair of trousers lying on a bed.

COMPOSITE DRAWING MADE

The China Lake Police Division provided assistance to the Kern County Sheriff's Department on Dec. 1 by preparing a composite drawing of a suspect who is sought on a charge of indecent exposure.

CAR HUBCAP STOLEN

Theft of a hubcap from a car parked last week for three hours at night outside the Training Center was reported to China Lake police.

The victim, who owns a 1978 Chevrolet, is out \$35 to pay for the cost of a replacement hubcap.

RIDGECREST POLICE ASSISTED

China Lake police assisted Ridgecrest police officers in administering breathalyzer tests twice in the early morning hours last Saturday, and once at 3:24 a.m. on Sunday.

FALSE REPORT ALLEGED

A young girl faces a possible misdemeanor charge after calling China Lake police last Friday afternoon and falsely stating that she was the victim of an attempted rape.

Police investigation into the matter failed to substantiate the claim, and consideration is being given to filing a misdemeanor

ADP contract . . .

(Continued from Page 1)

data) continued.

The contracting officer for the ADP services contract is Carroll Lambton, a Supervisory Contract Specialist in Code 25243, who is receiving major assistance from a staff of four Supply Department employees headed by Donnette Cappello. Ann Penn, Code 31B, is the Contracting Officer's Technical Representation (COTR) and is the leader of a four-member staff in the Aircraft Weapons Integration Department. She is responsible for the day-to-day technical aspects of the contract and provides the technical review of all the statements of work.

Every requirement for a delivery order under this contract must be reviewed by Wertenberger and his staff to determine whether it meets ADP regulations.

Ordering of the work is done at the CSC facility in Ridgecrest. This firm has made major organizational changes and extensive documentation procedures to ensure that NWC users contract services get what they need.

Plans call for CSC to construct a temporary building at Armitage Airfield that will be large enough to house up to 165 of its employees.

Equipment in this building will include government-owned computers that will enable contractor employees and their Civil Service counterparts in the technical community at NWC to do a lot of work that, until the building is completed next September, will continue to be performed at the CSC facility in Ridgecrest.

charge that could result in a fine if she is found guilty of filing a false police report.

MAN'S DEATH INVESTIGATED

Police were called to 1610 E. Inyokern Rd. shortly after 4 p.m. Monday when a woman employee returned home from work to find that her husband, age 34, had died during the day.

China Lake police contacted the Kern County Coroner's Office and a representative of that office reached the scene at around 7 p.m. to assume jurisdiction over an investigation into the cause of death.

SALESMEN MOVED OFF BASE

Three door-to-door salesmen were invited by China Lake police to leave the Naval Weapons Center on Monday morning, after police learned of their activities in the Capehart housing area.

The trio was informed of the content of the NWC Instruction that makes it necessary to obtain prior approval before carrying out any such sales effort within the boundaries of NWC.

OBSCENE TELEPHONE CALL

A woman employee at the Coastside Cable TV office on South Knox Road called China Lake police at 12 noon Monday to report an obscene telephone call incident.

5 DUI ARRESTS MADE

During the month of November, China Lake police made five arrests of motorists who were charged with driving under the influence (DUI) on the Naval Weapons Center.

PARKED MOTORCYCLE DAMAGED

A motorcyclist reported to the police at 10:30 p.m. Saturday that someone had vandalized his motorcycle while it was parked at the BEQ No. 1 motorcycle parking lot.

CAR BURGLARIZED

At 4:20 p.m. Sunday, a victim reported that unknown persons had entered a locked vehicle parked at 1511 Essex Circle and removed a tape deck and battery.

THEFT ATTEMPT REPORTED

On Sunday, also, at 6 p.m. unknown persons entered Hangar 3 and attempted to steal the money from the coffee mess fund for the Aircraft Department. Although the area was ransacked, nothing was taken.

TRAFFIC TICKET ISSUED

Late Sunday evening, police stopped a 17-year-old female driver traveling westbound on Inyokern road for a traffic violation and discovered that she did not have a driver's license. She was cited.



HEAVY LOAD — Department of Fish and Game personnel carry a groggy ram to the base camp from the site where the helicopter set the litter on the ground. The animals were flown to base camp tranquilized, blindfolded, hobbled, and strapped to the litter which is slung beneath the helicopter. — Photo by Mickey Strang

Bighorn sheep relocated . . .

(Continued from Page 1)

different locations will be mixed during future transfers.

Each animal also was ear-tagged, and, for those with horns large enough to hold a collar in place, telemetry collars were fastened around their necks.

Throughout this operation, the animal's vital signs were monitored to ensure that it was not overly stressed and that it was also not overly tranquilized.

Each sheep was then backed into a wooden crate for shipment by the Center's Search and Rescue helicopters to its new home.

The Center's two SAR helicopters landed at the base camp each day, loaded the crates aboard, and then chugged skyward to the Eagle Craggs where the animals could be released.

Flying the helicopters on all four days were LCDr. Buz Massengale and Lt. Greg Friedrichsen. Serving as aircrew on Friday were ADAN Larry Clark and ATAN Richard Johnston, while on Saturday and Sunday the aircrew members were AEAN Barry Beavers and AEAN Mark Keenan. On Tuesday HM2 Bill Lewis joined LCDr. Massengale's aircrew.

Once the helicopters landed near the Eagle Craggs, the crates were off-loaded, each animal was medicated by Dr. McGill to remove any internal parasites from its system and then was permitted to bound up the slopes to its new home.

If close monitoring of these bighorn sheep indicates that transporting them had no ill effect and that they reestablish themselves successfully, another group will be moved to the Argus Mountains in 1986.

The desert bighorn is a protected species of nongame animal. Each stands about 36 to 40 inches at the shoulder with rams weighing about 180 to 200 pounds when fully grown. Ewes weigh a little less.

The animals are ruminants with exceptionally large rumens, making it possible for them to thrive on a wide range of forage. They don't have to drink each day, but thrive where water is plentiful.

DFG installed guzzlers in the Old Dad Mountains, and the resultant increase in herd size made the moving of some animals practical.

While desert bighorn can breed at any time of the year, the majority of lambs are born in the spring after a gestation of about six months. The majority of ewes will have only one lamb a year; twins are possible but rare.

According to experts, life expectancy of the bighorns is tied to their sexual maturity. The younger the animal when it becomes sexually mature, the shorter its life expectancy. Some rams have been noted as sexually mature at six months of age. Average life expectancy is 10 years, according to experts, but a few attain considerably longer life. At least one ram found elsewhere was determined by his horns to be 17 years old.

Both rams and ewes grow horns. Ram horns may measure from 30 to 40 inches along the outside of the curl, while the horns of ewes are generally 10 to 13 inches long.

Rams use their horns for fighting and self protection as well as for food gathering. Bighorns, for instance, have been reported to butt trees or cactus to dislodge nuts or fruit.

The high and rocky sites on which the animals live are their main protection from predators. The animals tend to gather in small herds — experts guess that this is because more eyes are thus available to watch for predators — for feeding during the daytime. At night they bed down in high and rocky places where they cannot be easily reached by predators.

Experts believe that most desert bighorn sheep spend their entire lives within about 20 miles of the site where they were born, so the newly transported animals are expected to remain in the Eagle Craggs.

Navy Hotline

for Fraud, Waste and Abuse
Call: (800) 522-3451 (toll free)
288-6743 (Autovon)
(202) 433-6743 (commercial)



READY TO MOVE — A four-wheel-drive truck from the Department of Fish and Game brings crates containing the captured bighorn sheep to the Center's Search and Rescue helicopter parked far enough back from base camp so that the turbulence created from its rotor wouldn't blow down tents. Once the crates are aboard the helicopter, it flies to the release site where the animals are removed from the crates and turned loose.

Technical Director Award . . .

(Continued from Page 1)

could be implemented in formulating a warhead design, and validating its effectiveness against real targets.

Zulkoski's efforts were culminated in a series of four experiments that demonstrated the vulnerability of an aircraft engine to multiple fragment impacts, when the single fragment model indicated the engine was invulnerable.

"It is anticipated that the technical contributions of these two individual will have a lasting impact on the air target vulnerability community," Schaniel concluded in nominating Alexander and Zulkoski for the NWC Technical Director Award.

Alexander, a general engineer in Code 32's Warhead Development Branch, moved to China Lake from the Naval Ordnance Lab, Corona, in 1970, and was assigned to the former Propulsion Development Department.

He worked initially on development of the warhead currently used on the Sidewinder AIM-9L, and was involved in studies related

Hikers (especially with dogs) alerted; trapping season on

Joggers, hikers and others who like to roam California forests are warned that it is unlawful to disturb legally set traps. California has more than 3,000 trappers, who pay a \$10 fee each for the privilege.

Traps are usually set near animal trails and off the beaten track so there is relatively little danger of a person being caught in such a trap. (Anyone who heads to the forest accompanied by a pet dog, however, is cautioned to keep an eye on the animal so it won't get caught.)

Those who find traps that may not be legally emplaced, are asked to get in touch with Department of Fish and Game personnel so that the poachers can be apprehended.

Next Rocketeer will be final issue of 1983

The Rocketeer to be issued next Friday, Dec. 16, will be the final publication of the year. The Center newspaper will resume publication in 1984 with the issue dated Jan. 6.

In view of this, all clubs, organizations, and other groups interested in publicizing special holiday activities are reminded to submit their information to the Rocketeer office no later than Tuesday, Dec. 13, and earlier if possible.



to how certain metals (like magnesium and titanium) can improve the damage-producing capability of missile warheads.

Over the years, Alexander's work also has involved him in such things as studies of the damage-creating effect of a missile's kinetic energy coupled with the explosive power of the warhead itself. More recently, he has been directing his attention to warhead design as a means of improving the lethality of weapons, and a spinoff from this has been the development of vulnerability models.

Alexander serves on a Technical Cooperation Program panel composed of engineers and scientists from the U.S., Canada, Australia and the United Kingdom that looks into the terminal ballistics aspects of warheads.

In addition, he presented papers on terminal ballistics during a symposium held in Toulouse, France, in 1980, and at an International Ballistics Symposium held last April at The Hague in the Netherlands.

Zulkoski joined the Civil Service work force at NWC as a junior professional in 1967, after receiving a bachelor's degree in physics from San Diego State University.

He, too, was assigned to the Propulsion Development Department, and has been involved continuously in exploratory development efforts related to guided missile warheads — particularly advanced intercept air-to-air missiles.

Although he has concentrated on warheads for anti-air applications, Zulkoski also has worked on some anti-surface weapons, as well as undersea anti-submarine weapon warheads.

Emphasis of this work is on improving the terminal performance of guided missile warheads without increasing their size.

Skipper installs new officers of military comptrollers for '84

Officers for 1984 of the China Lake Chapter of the American Society of Military Comptrollers (ASMC) were installed by Capt. K. A. Dickerson, NWC Commander, at a recent dinner meeting of the organization.

Serving as president next year will be Jo A. Cherry. Other officers and their positions are Patty L. Lawson, vice-president; Linda E. Long, secretary; and Joan E. Crista, treasurer.

The American Society of Military Comptrollers is a non-profit educational professional organization for persons involved in the fields of financial, general, and resource management; accounting; finance; budgeting; auditing, cost and price analysis; and similar operations as designated by the National Council of the group.

Membership is open to all military and civilian personnel actively employed or who have been employed in the military comptrollership field, or to those interested in that field.

Anyone interested in joining the local group can obtain additional information by telephoning either Joan Crista, NWC ext. 3537, or Linda Long, NWC ext. 6222.

Cross country skiers alerted to danger of avalanches, weather

Snow for cross country skiers is rated as phenomenal in the Sierra, White, and Inyo Mountains, but all skiers are warned to be extremely careful where they go if they head off onto any other than clearly marked trails.

Avalanche danger is great, and the weather can also pose real hazards.

Skiers venturing forth across country should leave word with a friend where they intend to ski, and at what time they plan to be back so that they can be tracked if necessary. Skiers should also be sure to carry adequate emergency supplies in case of a sudden storm or for any other type of emergency.

ESSENTIAL INFORMATION — Department of Fish and Game personnel weigh a ram to help determine the general condition of the animals captured. The gauze face mask on the animal helps to keep it quiet, and so does the tranquilizer given to it as soon as it was netted.