

Ballet Arts Theatre Christmas season program set tonight

The Ballet Arts Theatre will present its third annual benefit performance for the Indian Wells Valley Spay and Neuter rebate program tonight at 7 o'clock in the Burroughs High School lecture center.

This year's program will feature Terrie Jacks and Lyle Gregory in the "Nutcracker Suite." Music for the "Nutcracker" was composed by Peter Tchaikovsky.

The ballet opens in a pine forest with the "Waltz of the Snowflakes." After a "March of the Candy Canes," there are dances by dolls from China, Arabia, Spain and Russia. These are followed by a lively "Tarantelle" and a dance by the Sugar Plum Fairy.

The ballet concludes with a Grand Pas de Deux performed by professional dancers Terrie Jacks and Lyle Gregory.

Miss Jacks is a member of the American Guild of Musical Artists and Gregory is a member of the American Federation of Theatre Arts and Screen Actors Guild.

Also on the program is Ballet Arts Theatre's version of the original Christmas story, entitled "It Came To Pass."

The price of admission is \$3 for adults; \$2 for senior citizens and high school students, and \$1 for children.

Tree lighting slated at Inyokern tonight

All residents of the Indian Wells Valley are invited to join with residents of Inyokern and the area covered by the West-side Civic Association at the third annual Christmas tree lighting ceremony tonight at Inyokern Park at 7:30.

While traditional ceremony will accompany lighting up a large, live evergreen tree, an added element this year will be the relighting of a giant candle that was originally set aflame at the service held in honor of the Americans held hostage in Iran.

Those present at tonight's ceremony will partake in tying yellow ribbons to the tree to symbolize that the hostages have not been forgotten. The carol-singing by all assembled and musical entertainment provided by the Sweet Adelines will be taped and mailed to the hostages in Iran.

Open house set Dec. 24

The Interactive Graphics facility now located in Rm. 1014 of Michelson Laboratory will hold an open house on Wednesday, Dec. 24, from 11:30 a.m. until 3 o'clock.

All personnel on the Center who are interested in the capabilities of interactive graphics are invited to attend the open house and see demonstrations of the different kinds of equipment now in operation.



BALLET ARTISTS — Terrie Jacks and Lyle Gregory will be the featured artists in tonight's Ballet Arts Theatre performance of the "Nutcracker Suite" at the Burroughs High School lecture center.

Special holiday hours slated at business, recreational activities

All business and recreation facilities on board the Naval Weapons Center will be closed on Christmas and New Year's Day — Thursday, Dec. 25 and Jan. 1 — except Hall Memorial Lanes which will be open holiday hours of 1 to 9 p.m. for bowling.

The gymnasium will observe special holiday hours of 7:30 a.m. to 4:30 p.m. on Dec. 24 and 31, and from 7:30 a.m. to 7 p.m. on Dec. 26, 29, 30, and Jan. 2. There will also be special weekend hours of 9 a.m. to 6:30 p.m. on Saturday, Dec. 27, and 12 to 5 p.m. on Sunday, Dec. 28.

The Navy Exchange (main retail store and service station) will be open on Dec. 24 and 31, from 10 a.m. to 3 p.m. and the Mini-mart will also be open on Friday, Dec. 26, from 10 a.m. to 5 p.m. All three facilities will be closed on Christmas Day and New Year's Day.

The Commissary Store will be closed on Thursday and Friday, Dec. 25 and 26, and also on Jan. 1. Holiday hours of 8:30 a.m. to 2 p.m. will be in effect on Wednesday, Dec. 24, but the store will resume its normal hours of operation (8:30 a.m. to 4 p.m.) on Saturday, Dec. 27.

Special hours for the school holiday season will be maintained by the Youth Center and skating rink on Richmond Rd., starting on Monday, Dec. 22.

The Youth Center and skating rink will be open during the Christmas/New Year

school vacation from 1 until 5:30 p.m. every day except for Wednesday and Thursday, Dec. 24, 25, and 31, and Jan. 1, when they will be closed.

The China Lake golf course will be closed on Christmas and New Year's but will remain open from 7 a.m. to 4:30 p.m. on all other days except Mondays, when it is closed.

Regular hours of operation for all business and recreational facilities will be resumed on Monday, Jan. 5.



Commissioned Officers' Mess

Just a reminder that the Commissioned Officers' Mess main dining area will be closed tonight and tomorrow night for private parties. However, there will be regular dinner and bar service in the new Sidewinder Room from 6 to 10 p.m.

The COM will be closed for the Christmas holidays from Wednesday, Dec. 24 through Tuesday, Dec. 30.

On Wednesday evening, Dec. 31, the COM will re-open with a bang for a gala New Year's Eve Party.

Dancing from 9 p.m. to 1 a.m. at the "Sounds of Country" will put everyone in attendance in a jolly mood to welcome in the new year at midnight with free champagne for all.

Preceding the dancing, at 6 o'clock, a no-host social hour will start off the festivities, followed by a happy hour from 7 to 9 p.m. Dinner will include a tossed salad, prime rib of beef, baked potato, and vegetables, and will be served from 7:30 to 9:30 p.m.

The price for this New Year's extravaganza of \$17.50 per person, also includes breakfast from 1 to 2 a.m.

Tickets will continue to be on sale at the COM office until Dec. 23. Late reservations will be accepted on Monday and Tuesday, Dec. 29 and 30.

Chief Petty Officers' Club

New Year's Eve at the Chief Petty Officers' club will be highlighted by the versatile sounds of "The Tiger," a 4-piece group from the Los Angeles area.

The Tiger will provide music for listening and dancing from 9 p.m. to 1 a.m. Dinner on this festive occasion will include prime rib, wine and champagne, and will be served starting at 7 o'clock.

Tickets priced at \$15 per person are available now through Monday, Dec. 29, at the CPO Club office.

MOVIES

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

Regular starting time—7 p.m.

FRIDAY, MONDAY	DEC. 19, 22
"THE BLUES BROTHERS" (Comedy, rated R, 133 min.)	
SATURDAY	DEC. 20
"HERO AT LARGE" (Comedy, rated PG, 98 min.)	
SUNDAY	DEC. 21
"FIDDLER ON THE ROOF" (Musical-drama, rated G, 149 min.)	
TUESDAY	DEC. 23
Matinee—2 p.m. "LADY AND THE TRAMP" (Animated, rated G, 98 min.)	
WEDNESDAY	DEC. 24
CLOSED FOR CHRISTMAS	
FRIDAY, MONDAY	DEC. 26, 29
"LITTLE DARLINGS" (Comedy-drama, rated R, 89 min.)	
SATURDAY	DEC. 27
"WINTER KILL" (Drama, rated R, 97 min.)	
SUNDAY	DEC. 28
"1941" (Comedy, rated PG, 119 min.)	
TUESDAY	DEC. 30
Matinee—2 p.m. "DARBY O'GILL AND THE LITTLE PEOPLE" (Fantasy, rated G, 97 min.)	
WEDNESDAY	DEC. 31
CLOSED FOR NEW YEAR'S	
FRIDAY	JAN. 2
"COAL MINER'S DAUGHTER" (Drama, rated PG, 125 min.)	
SATURDAY	JAN. 3
"THE ISLAND" (Adventure-thriller, rated R, 114 min.)	
SUNDAY	JAN. 4
"THE LAST FLIGHT OF NOAH'S ARK" (Adventure, rated G, 98 min.)	
MONDAY	JAN. 5
"FAME" (Musical-drama, rated R, 134 min.)	
WEDNESDAY	JAN. 7
"AND JUSTICE FOR ALL" (Drama, rated R, 119 min.)	
FRIDAY	JAN. 9
"HERBIE GOES BANANAS" (Comedy, rated G, 94 min.)	

Preteen dance on tap this evening at Community Center

Preteen-aged youngsters of the community are reminded of a disco and rock dance to be held tonight from 6 to 9:30 at the Community Center. Admission is 50 cents per person, with parents accompanied by a child being admitted free.

Prizes will be given to winners of a dance contest, and other prizes will also be available.

The dance is sponsored by the IWV Chief Petty Officers Association. Anyone wishing further information should contact ABHC John Price by calling 446-5837, after working hours.

Parents who do not accompany their children to the dance are asked to pick up their youngsters promptly at 9:30 p.m.

Dr. King to be honored

A special memorial concert honoring the late Civil Rights leader Dr. Martin Luther King will be held on Sunday, Jan. 11, at the All Faith Chapel. The concert will be held from 3 to 6 p.m., and will feature music by three church choirs.

It is co-sponsored by the NWC Equal Employment Opportunity Office and the Union Baptist Church of Ridgecrest.

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From: _____

PLACE STAMP HERE

To: _____



NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

December 19, 1980

Vol. XXXV, No. 50

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AT2 Robert C. Ross

AT2 Ross picked for Bluejacket of Month honor

Aviation Electronics Technician Second Class Robert C. Ross has been selected as Bluejacket of the Month for November for the Naval Weapons Center.

Lt. D. B. Watkins, in his letter of nomination for AT2 Ross, says that he has shown a high degree of professionalism and personal initiative in voluntarily assisting the personnel of Contract Work Center 172 and VX-5 in their A-7 aircraft Integrated Weapons Team maintenance and the NWC Ordnance Work Center in the A-7 weapons release system checks, as well as lending his time and expertise in assisting the Avionics Work Center when his own work assignment load was low.

The letter continues, "the dedication displayed by him has been instrumental in the excellent full systems capability rate of NWC A-7 aircraft. Petty Officer Ross's devotion to duty, enthusiasm and professionalism in the execution of his duties are extremely noteworthy and in keeping with the highest standards of the Naval Service."

AT2 Ross has spent 2 1/2 of the 3 1/2 years he has been in the Navy at China Lake. When he enlisted in the Navy from his home town of Delavan, Wis., he hoped to be able to travel. China Lake was one of his choices as a duty station, even though he couldn't find out where it was, because he was interested in seeing California.

"I've enjoyed my stay here," he said, "especially because this is where I met my wife, Debbie."

He and Debbie, who is also in the Navy, are proud parents of Donna Lee. Christmas will be a lot of fun this year, says AT2 Ross, because young Donna Lee will be able to open her own packages.

His spare time has been spent in camping with his family, hiking with friends, and in playing baseball with the Tigers. Quieter hours are spent in reading science fiction and preparing to take CLEP tests to qualify

(Continued on Page 5)

Test of parachute system scheduled for use in Jupiter probe is nearly perfect

Perfection is hard to attain — but last week's test of the parachute system that will lower a probe through the atmosphere of the planet Jupiter came close to it, according to Wally Fung, head of the Test Engineering Division of the Parachute Systems Department.

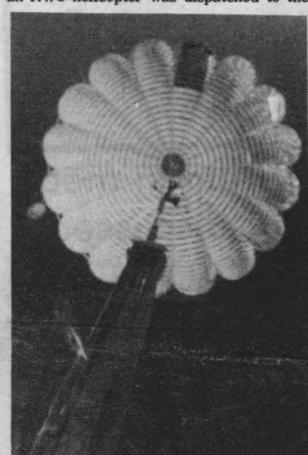
This third and final test of the 2-year series took place Thursday, Dec. 11, over the parachute drop zone on NWC's ranges when the test vehicle was launched from a TF-4J aircraft piloted by Lt. Michael F. Sweeney. The test vehicle, an aluminum cylinder 18 inches in diameter, 76 inches long and weighing 650 pounds, was released at 8:15 a.m. from the aircraft which was at a pressure altitude of 48,800 feet. The aircraft was traveling at a true air speed of 590 knots (Mach. 1.05), at exactly the scheduled altitude and air speed.

One second after release, the vehicle door opened; at launch plus two seconds, the NASA pilot chute was deployed and at launch plus 2.8 seconds, the pilot chute was released and the main parachute was deployed.

This main parachute, the test item, is made of DuPont kevlar, which will survive the rigors of the Jovian atmosphere. Because the parachute's diameter of only 12.6 feet allowed the test vehicle to drop toward the ground at a high rate of speed, an NWC-designed recovery system took over at 14,000 feet mean sea level. A drogue parachute pulled out the 35-foot canopy of the main parachute that then slowed the rate of descent sufficiently so that the test

vehicle was lowered safely to the desert floor for a normal touchdown.

As soon as the test vehicle was launched, an NWC helicopter was dispatched to the



BLOSSOM IN THE SKY — The flower-like appearance of the main NASA parachute for the Jupiter probe (as seen from the test vehicle) doesn't show the strength of its kevlar construction. Shortly after this picture was taken, the NWC designed recovery system deployed to lower the test vehicle gently to the ground.

site to recover both NASA parachutes; they also were picked up undamaged to result in a 100 percent successful test.

Test conditions were designed to be 50 percent above normal for conditions expected on Jupiter.

The Galileo mission to Jupiter for which the parachute was tested will be launched from a space shuttle in March 1984. A probe will be released to drop toward the surface of the planet, and the test parachute will delay the descent of that probe sufficiently to ensure that as much data as possible is gathered about the Jovian atmosphere before the cylindrical probe is crushed by atmospheric pressure.

FINAL TEST SET IN '82

This final test of a two-year parachute test program completes the NWC Parachute Systems Department's involvement with the Galileo program. In 1982, a fully-equipped probe will be dropped from an Air Force Geophysics Laboratory balloon at 100,000 feet over the White Sands Missile Range in New Mexico. Once released, the probe will descend onto the test range in a flight similar to the impending Jovian descent.

The Galileo probe development is under the management of the NASA Ames Research Center; Hughes Aircraft Co. of El Segundo, Calif., is prime contractor for the system. The descent module is manufactured by General Electric Co. of Philadelphia, with the Pioneer Parachute Co. of Hartford, Conn., responsible for the parachute system.

Hybrid Target Acquisition System tested here

What do you do if you need a sensor that can search wide areas and also home in on a small area to give great detail? And, of course, that has to be relatively inexpensive and small as well?

"We combined two sensors," says Bob Hintz, a physicist in the Carbon Dioxide Laser Technology Office. "We use a low-resolution coherent RF sensor to search a wide area, and then hand off to a higher resolution and smaller field-of-view, coherent infrared laser sensor."

When fully developed, the Hybrid Target Acquisition System (HYTAS) should be able to provide precision fire control for rockets, guns and ordnance, and can be carried in an aircraft to give close air support for Navy and Marine Corps personnel when low-level ingress in a moderate-to-high threat environment is needed.

HYTAS began three years ago, funded by NWC Independent Exploratory Development money. The first flight tests were conducted in September 1980, and the program is now funded under the Air Weapons Technology Block.

The RF sensor gives wide-angle coverage of plus or minus 30 degrees ahead of the aircraft. The angular resolution is 2 degrees and the range resolution is 10 feet. The RF

sensor will scan the field of view looking for reflections with the characteristics of a valid target. These characteristics are the Doppler frequency (target velocity) and

Doppler frequency characteristics (target vibration, etc.). Once the RF sensor detects a potential target, it gives the range, angle off boresight, and velocity information to the laser sensor.

The laser sensor consists of a coherent carbon dioxide laser that produces imagery of moving targets. These images can be used to classify targets. The information from the RF sensor and IR sensor can be effectively used by the weapon fire control system.

The IR sensor was developed by the Raytheon Company under two separate contracts. The first was the detection system, which is a coherent Doppler detector. The Doppler detector was originally built for the Army Missile Command. The second contract was for the two-axis scanner that provides two-dimensional images by rapidly scanning the field of view. The scanner was developed under NWC contract specifically for HYTAS.

The first version of HYTAS was assembled from available equipment as much as possible, with both key sensors tested separately and combined only in the final year of the IED program. The combination

(Continued on Page 3)



TARGET'S EYE VIEW — The two sensors in the hybrid target acquisition system peer alongside the test helicopter as final preparations were being made for initial flight tests of the system.



MATURANGO MUSEUM MILESTONE — Bob Berry (at left) accepts the lease from Kern County for land in the East Kern Regional Park that is earmarked as the site where a new building to house the museum will be built. During a ceremony held on Wednesday morning of last week, County Supervisor Gene Tackett handed the lease to Berry, an NWC employee who is president of the museum's board of directors. Among others present for this occasion were Capt. W. B. Haff, NWC Commander, and Harold Hockett, Mayor of the City of Ridgecrest. Nearly \$170,000 has been raised for the museum building fund, and museum directors intend to seek another \$80,000 in contributions before they begin seeking grants that require matching funds to cover the museum's estimated total cost of \$1,184,000.

**PEACE
GOOD WILL
TOWARD
MEN**

**SPECIAL
FAMILY
SERVICES**

CATHOLIC CONGREGATION
Mass Schedule

Sunday, Dec. 21, All Faith Chapel 8:30 and 11:30 a.m.
Wednesday, Dec. 24, Small Chapel 11:35 a.m.
Wednesday, Dec. 24, All Faith Chapel Midnight
Thursday, Dec. 25, Main Chapel 10 a.m.
Sunday, Dec. 28, All Faith Chapel 8:30 and 11:30 a.m.
Thursday, Jan. 1, All Faith Chapel 10 a.m.

PROTESTANT CONGREGATION

Wednesday, Dec. 24 Main Chapel, Christmas Eve service 7 p.m.

HEBREW CONGREGATION

Friday, Dec. 26, Religious Service, East Wing 7:30 p.m.

New graduate program in mech engineering at NWC discussed

A new graduate level external degree program in Mechanical Engineering was the topic of discussion when Dr. Roy Hickman, chairman of the Mechanical Engineering Department at the University of California Santa Barbara, spent the day at NWC recently.

During his visit Dr. Hickman discussed aspects of the program with B. W. Hays, head of the NWC Laboratory Directorate, and with several NWC department heads to determine what aspects of mechanical engineering would be most appropriate for courses to be taught at NWC's Training Center by UCSB faculty members.

The first course, under the proposed program, will be taught by Dr. Hickman starting Thursday, Jan. 15, from 10 to 11:30 a.m. each Thursday for the 10-week winter quarter. Dr. Hickman will be available for consultation each of those days from 1 to 2 p.m. before returning to Santa Barbara.

Although the graduate-level external degree mechanical engineering program has not yet completed its approval cycle, the course will grant full credit through the Extension Program and can be applied toward a graduate degree.

The proposed program will replace the certificate program that had been carried

on in cooperation with the Davis campus of the University of California, and will result in the awarding of a Master's degree on successful completion of requirements. All requirements can be met at China Lake.

Engineers who are interested in this graduate program are asked to contact Vicki Munro at the Training Center by calling NWC ext. 2359.

Workshop to help smokers kick habit to begin on Jan. 12

A 16-hr. Stop Smoking Workshop will be held on Mondays and Thursdays from 3:30 to 5:30 p.m. starting on Monday, Jan. 12. The workshop, sponsored by the Employee Assistance Program, will be conducted by Hazel Barber and Brenda Burnett, who successfully completed a previous Stop Smoking Workshop.

Training requests are not required to attend the course. Those who wish to register may do so by telephoning Carol Corlett at NWC ext. 2574. Supervisors are encouraged to grant released time for those who participate.

All civilian and military personnel are welcome.

The Rocketeer

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China Lake, California

Captain W. B. Haff
NWC Commander

R. M. Hillier
Technical Director

S. G. Payne
Public Affairs Officer

Don R. Yockey
Editor

Mickey Strang
Associate Editor

Beverly Becksvort
Editorial Assistant

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Photographs Tuesday, 11:30 a.m.
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Phones



Promotional opportunities

Applications (Standard Form 171) should be put in the drop box located at the Reception Desk of the Personnel Department, Bldg. 24. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current appointable (i.e., career/career conditional and VRA) NWC employees only. All others desiring employment at NWC may contact the Employment-Wage & Classification Division, Code 092, Ext. 2049. 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 alternate 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. 09-18KLC, Fabric Worker Helper, WG 3105-5, Code 6421 — Temporary position. Applications received in response to this ad will be used to establish a register from which selection to the temporary position of Fabric Worker, Helper, WG 3105-5 will be made. The position will be filled for a period not to exceed one year. The duties include initial preparation of materials, basting, fabrication of component (canopy panels, containers, harnesses, deployment aids, etc.) and fabrication of pilot chutes. The incumbent will learn to use blueprints and sketches. A variety of materials including leather, rubber, canvas and textiles are used as are various hand and powered tools for working these materials. Applications will be accepted from status eligibles, VRAs, those on Civil Service registers and those not presently on a register who possess the required knowledge, skills and abilities. **Job Relevant Criteria:** Reliability and dependability; shop aptitude and interest; ability to follow directions in a shop; dexterity and safety; ability to work as a member of a team. **Supplemental Qualifications Statement** may be picked up from Reception Desk, Bldg. 34, Rm. 100.

Announcement No. 24-048, Machinist, WG 3414-11, JD No. 322N, Code 24421 — Position is located in the Machine Shop of the Maintenance and Utilities Division, Public Works Department. Incumbent will perform all types of general machine work involving machine tool operations on castings, forgings, weldments, and bar stock, as well as assembly, installation, and bench work required in the construction, repair, and overhaul of mechanical parts and assemblies. Fabricates tools and fixtures to hold or machine complicated parts. Works from blueprints, sample sketches, and verbal instructions. **Job Relevant Criteria:** Set-up and operation of machine tools; trade theory and technical practices; shop drawings; layout work, and measuring devices; handtools and fittings; materials; ability to do the work of the position without more than normal supervision. **Supplemental Qualifications Statement** is required and may be picked up in Bldg. 34, Reception area or Rm. 210. Previous applicants need not reapply.

Announcement No. 25-030, Procurement Clerk, GS-1104-5, PD No. 8025051, Code 252 — This position is located in the Contracts Division, Supply Department. The incumbent performs post award reviews of data input to the Federal Procurement Data System. Serves as RIMS Coordinator for the Division. Reviews input to RIMS and system reports for accuracy. Responds to questions from Center personnel on RIMS. Incumbent is also responsible for the Contracts Division Automated Document System. Includes development of procedures, handbooks or forms. **Job Relevant Criteria:** Knowledge of Defense Acquisition Regulations; ability to safely perform the work of the position without more than normal supervision; technical practices, knowledge of trade theory and instruments; ability to use handtools and power equipment; ability to use electrical drawings; maintenance and troubleshooting. **Supplemental Qualifications Statement** is required and may be picked up in the Personnel Department Bldg. 34, Rm. 210.

Announcement No. 26-045, Electrician (High Voltage), WG 2819-08, JD No. 517, Code 2445 This position is located in the Maintenance Utilities Division, Public Works Department. The incumbent installs, maintains and repairs electrical transmission and distribution lines, equipment and accessories connected with power transmission. This includes overhead and underground power lines, transformers and street lighting systems. Installs and repairs poles, crossarms, insulators, guy wires and anchors to support power lines; locates and repairs breakdown and trouble spots on overhead and underground lines; splices cable, bends conduit. Must have a fundamental working knowledge of electricity and safety practices used in working electrical power distribution lines and equipment. Position has promotion potential to WG-10; however, promotion is not guaranteed. **Job Relevant Criteria:** Ability to safely perform the work of the position without more than normal supervision; technical practices, knowledge of trade theory and instruments; ability to use handtools and power equipment; ability to use electrical drawings; maintenance and troubleshooting. **Supplemental Qualifications Statement** is required and may be picked up in the Personnel Department Bldg. 34, Rm. 210.

Announcement No. 26-046, Pneumatic Tools Operator, WG 5732-4, JD No. 319, Code 24451 — This position is in the Maintenance-Utilities Division of the Public Works Department. The incumbent operates various pneumatic tools to break up or drill hard surfaces such as concrete, asphalt, and masonry. Drives truck on which air compressor is mounted to work site. Starts, stops and adjusts air compressor. Operates jackhammer or paving breaker. Uses hand tools and operates pneumatic rotary drill. Makes minor repairs and adjustments to air compressor. Assists in shoveling of earth or concrete. **Job Relevant Criteria:** Ability to operate motor vehicle safely, work practices; ability to interpret instructions; operation of pneumatic tools with various attachments and air compressors; reliability and dependability; ability to do the work of the position without more than normal supervision. **Supplemental Qualifications Statement** is required and may be picked up in the Personnel Department Bldg. 34, Rm. 210.

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Announcement No. 26-049, Air Conditioning Equipment Mechanic, WG 5304-5, JD No. 531N, Code 24422 — This position is located in the Maintenance and Utilities Division of the Public Works Department. Incumbent will assist journeyman mechanics using common hand tools to repair air conditioning and heating components. Incumbent also repairs minor equipment, gear motors, dump valves, flimers, and does minor shop bench work. Must maintain records of this, reports and material requests. **NOTE:** Position has promotion potential to WG-10; however, promotion is not guaranteed. **Job Relevant Criteria:** Reliability and dependability; shop aptitude and interest; ability to follow directions in a shop; dexterity and safety; and ability to work as a member of a team. **Supplemental Qualifications Statement** is required and may be picked up in the Personnel Bldg. 34, reception area or Rm. 210. Previous applicants need not reapply.

Announcement No. 31-013, Supervisory Computer Specialist, DA-324-3; Supervisory Mathematician DP-1520-3; (Interdisciplinary), PD No. 783124E, Code 3109 — This office is that of head, Instructional Systems Program Office, of the Aircraft Weapons Integration Department. This position supports the development and operation of

(Continued on Page 7)



DIVINE SERVICES

PROTESTANT
Sunday Worship Service 1000
Sunday School—All Ages 0830
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 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 "Home" Discussion Groups and Youth Rallies
Contact Chaplain's Office for specifics.

JEWISH SERVICES
EAST WING — ALL FAITH CHAPEL
Sabbath Services every Friday
UNITARIANS
CHAPEL ANNEX 95
Sunday Services—(Sept.-May) 1930

Nearly 100 boys, girls sign up for youth basketball

Nearly 100 boys and girls between 7½ and 12 years of age have registered for the Youth Basketball League program at China Lake.

Earlier this week, tryout sessions at which players' skills were evaluated were held in order to determine each youngsters' playing ability, and then to form teams that are evenly matched.

The Youth Basketball League is divided into an Instructional Division for players 7½ to 8 years of age, an Intermediate Division for those 9 through 10 years of age, and a Junior Division for youngsters 11 through 12.

Team practice sessions will be held in the youth gym, and games will be played on Friday nights and Saturday mornings in the Center gym, starting on Jan. 2.

Basketball...

(Continued from Page 6)

points each, and Mike Graham, who added 11.

Against the Floorburners team, P & C's Antiques got a 21-point scoring effort out of Jim Spencer, but the Floorburners, who led 21-18 at the midway point in the game, kept the pressure on and won by a 9-point margin of 43-34. Joe Barnes led the Floorburners with 11 points.

The Chicken Hawks salted away a convincing win over the Pizza Villa Poochies by rolling up a 25-10 halftime lead, and then cruising to a 38-25 victory. Carl Peacock and Rick Noland led the Chicken Hawks with 10 and 9 points, respectively, while the Poochies' top scorer was Scott Smith with 9.

In another lopsided tilt, CSC deflated the Gasbags 50-22, with top scoring honors going to Faris Bandak of CSC, who tallied 14. The Gasbags led 28-12 at the half.

Registration now open for racketball tourney

Registration is now being taken at the Recreation Coordination Office for an open doubles racketball tournament that will be held Jan 24-25 on the Center's racketball courts.

There is registration fee of \$10 per team that is payable at the time of registration. The number and type of awards winners will be determined by the number of entrants.

The entry deadline for this tourney, which is being coordinated by Les Saxton and Ron Derr, is Jan. 21.



CHRISTMAS SPIRIT — In keeping with the Christmas spirit of giving, Don Tilford, an NWC employee, offers his services free of charge as Santa at parties on weekends and during the evenings. Tilford, who works as an electronics technician in the Electronic Warfare Department's RF Development Division, can be contacted after working hours by calling him at 375-2564 if there are still those who would like to have a "Santa" present to add to the enjoyment of their Christmas party.

employee in the spotlight

"Anybody who can't find an answer to a question usually calls here"



Natalie Harrison

By Mickey Strang

If Natalie Harrison, Community Liaison Assistant in the Public Affairs Office, wanted to give herself a new title, she could list herself as "Ms. Cellaneous."

"Anybody who can't find an answer to a question usually calls here," says she. Very appropriately, too, because her responsibilities include a wide and varied assortment of tasks that don't quite fit into any other organization.

For instance, she makes up a community-wide master calendar so that groups or organizations planning events can determine that their activity will not conflict with any other major community event.

"Since there are so many people in the local area who belong to several groups or have varied interests," Natalie says, "it's a shame if they have to decide between several special events all occurring at the same time." (The bulletin board at the traffic circle being her responsibility, she can also help publicize the events scheduled.)

The calendar fits in well with her other duties. Community liaison involves people living on-Center, NWC relationships with local townspeople, and NWC relationships with special interest groups.

Contact for clubs and organizations

The Community Liaison Assistant is the contact for clubs and organizations that need to deal with Command. For instance, any club or group that wants to stage a fundraising event on-Center must clear the plans through her.

She has also spent many hours trying to help the clubs and organizations that had meeting places in the abandoned Bishop huts try to relocate when the decision was made to tear those buildings down.

Currently she is serving as coordinator for Project Community Pride, the Center-wide clean-up day scheduled for Jan. 17, and schedules the activities of the Center's Clean-Up Squad.

Contacts between off-Center groups and their counterparts on-Center go through her, as well as school affairs (which can be extensive occasionally because several Sierra Sands Unified

School District schools are located at China Lake). She notes that she'll not miss having to schedule gate guards for the Burroughs access gate for late night events now that the new gate access procedures are being tried.

She's performed many of these tasks since she was first appointed Community Liaison Assistant in 1974, when the position was located in what is now the Safety and Security Department. When the billet was moved to the Public Affairs Office, additional responsibilities have come her way.

Member of numerous committees

"In the hodge-podge of things I do," Natalie says, "I also handle requests for information for surveys—other than technical ones. And I serve as a member of a number of ad hoc committees such as the Armed Forces Day Committee, as well as being the Code 003 representative on the Energy Coordinating Council."

Her service on the Indian Wells Valley United Way board of directors however, is strictly her own thing. She was elected as a member because she has been active in many community affairs since she first moved to the local area in November 1962.

Natalie feels that raising six sons (two of whom were twins, and their younger brother, born just a year later) helped her develop the patience and psychology required to handle the myriad requests that come her way. "If your work is highly fragmented and you need to be able to make a variety of decisions quickly," says she, "raising six kids is excellent training."

With her boys now all grown, her off-duty time is much more serene than in the past. She moved into a new adobe home in College Heights in Ridgecrest last August, and is enjoying the quiet and comfort brought by its 16-inch thick walls. She designed the place herself, and then had a contractor build it. Although the house contains 2,400 square feet, it is easy to heat and cool because of the thick adobe walls.

"With the three acres of land that I'm trying to plant with fruit trees and all the things that a new house and yard call for," Natalie says, "I never seem to get done with the variety of chores. Reminds me of work—because the phone never stops ringing, and there's always something else that needs to be done."

Rec. Services Dept. schedules lifesaving, water safety classes

The NWC Recreational Services Department has scheduled Advanced Lifesaving and Water Rescue and Basic Water Safety and Rescue classes to be held from Jan. 12 through 31.

Individuals who wish to take the basic course must be 11 years old; while those 15 years of age and over will be accepted for the advanced class.

At the first class in the NWC indoor pool, instructor Adrienne Swinford will discuss the class schedule and try to make arrangements for class members who find it difficult to attend all of the classes on the current schedule of Monday, Wednesday and Thursdays from 7 to 9 p.m. and some Saturday mornings.

Students must sign up at the Recreation Coordination Office by Monday, Jan. 12. A \$12.50 fee will be charged to cover the cost of the textbook, materials and facility usage.

Navy lab to make use of photovoltaic, wind power

The Department of Energy has selected a Navy project for \$500,000 of funding under its Federal Photovoltaic Utilization Program.

The project, at the Navy Undersea System Center Laboratory at South Hampton, Bermuda, is planned to utilize a combination of solar (photovoltaic) cells and wind generators to provide all electricity needed at the lab.

This hybrid system will replace diesel generators at a significant savings of petroleum fuel. The project is part of the Navy's continuing efforts to adapt new energy technologies to its military needs, particularly at remote sites such as this laboratory.

Promotional Opportunities

(Continued from Page 2)

Versatile Training System (VTS). The VTS is a computer based training system utilizing mini-computer hardware with developmental and operation efforts involving computer programming, hardware integration and lessonware development. The incumbent provides technical and administrative direction for all phases of work. **Job Relevant Criteria:** Ability to supervise a subordinate staff; support of the Center EEO program; knowledge of computer applications involving real-time digital systems; knowledge of the design, maintenance, and procurement of computer equipment; knowledge of tactical avionics.

Announcement No. 31-014 Supervisory Physicist, DP-1310-4; Supervisory Electronics Engineer, DP-855-4; Supervisory Mathematician, DP-128-4; Supervisory Computer Scientist, DP-155-4; (Interdisciplinary), PAC No. 8031443E, Code 31091—This position is that of associate head, Tactical Software Engineering Division. The division provides a broad range of software engineering functions in support of the development of Operational flight Programs (OPFs) for the Aircraft Weapons System Support Activities (WSSA). These functions include tactical system design, algorithm development and functional analysis; tactical software design and implementation of the various tactical computers; aircraft simulation and flight test data acquisition and analysis; and software development tools for management, tactical software development and data reduction and analysis. **Job Relevant Criteria:** Ability to manage and supervise a multi-disciplinary work force; support of the Center's EEO Program; knowledge of tactical avionics systems and software design; ability to communicate effectively both orally and in writing.

Announcement No. 41003, Supervisory General Engineer, DP-801-4, PAC 8061200E, Code 413—This position is that of head, Targets Division, Aircraft Department, Selective Factor. To qualify for this position, ability to fly tactical jet aircraft is required. Incumbent manages the Center's drone T&E program and will have major responsibilities in the development of an Integrated Target Control System for the Range Control Center which will serve as the central ground control facility for the drone T&E program. **Job Relevant Criteria:** Knowledge of air weapons systems, related ground based and aerial target control systems; ability to manage flight and flight control operations; knowledge of EEO principles and practices. (Applications will be accepted from status eligibles.)

Announcement No. 62012, Secretary (Typing), GS-318-4/5, PD No. 8062081N, Code 6204 — This is a temporary position which will be filled for one year. The position serves as secretary to the head, Range Control Center Program Office. Major duties include receiving visitors, mail and telephone calls; maintaining the supervisor's calendar; scheduling travel and conferences; typing official correspondence and travel orders; providing office services for the RCC office staff. Applications from status and appointment eligibles will be accepted. **Job Relevant Criteria:** Must be a proficient typist; knowledge of the Center's clerical procedures; ability to deal with a variety

of administrative and clerical procedures.

Announcement No. 62013, Secretary (Typing), GS-318-4, PD No. 8062047N, Code 6202 — This position will be filled on either a full time temporary or part time permanent basis. The position provides clerical support to the Office of the Head of Staff for the Range Department and serves as secretary to the head of staff. Major duties include preparation of official correspondence; receiving incoming telephone calls and mail; timekeeping; maintaining files. Applications will be accepted from all status eligibles. **Job Relevant Criteria:** Must be a proficient typist; knowledge of the Center's clerical procedures; ability to deal with administrative and clerical procedures.

Announcement No. 38-012 Secretary, GS-318-4/5 PD No. 746011, Code 381 — (Part Time - 32 hours a week) This position is that of Division Secretary in the Physics Division, Research Department. The incumbent is responsible for the review and referral of incoming correspondence and review and release of all outgoing correspondence. The incumbent is responsible for preparation, release of the liaison of all division travel matters such as: clearance arrangements, travel claims, and travel budget estimates. The incumbent's duties as secretary to the division head include receiving visitors, maintaining supervisor's calendar and arranging division meetings and seminars. **Job Relevant Criteria:** Ability to deal effectively with a variety of personnel; knowledge of NWC and Navy correspondence procedures. Applications and accepted from reinstatement eligibles.

Announcement No. 66, Lifeguard, PS-0189-3, China Lake Gymnasium—This is a permanent, full-time position paying \$3.70 per hour plus benefits. This is not a Civil Service position. Monitors activities in pool area, rescues swimmers in danger, prepares necessary reports. **Job Relevant Criteria:** Must possess valid Advanced Lifesaving Certificate; Water Safety Instructor's Certificate desirable.

Announcement No. 67, Waitress Leader, NL-7420-2, Entitled Mess (Open)—This is a permanent, part-time position paying \$3.67 per hour plus benefits. This is not a Civil Service position. Supervises and instructs waitresses and food service workers; inspects facility; schedules employee meetings; handles complaints; acts as cashier on occasion. **Job Relevant Criteria:** Must be knowledgeable of dining room techniques; able to follow oral directions and deal with the patrons in a tactful and diplomatic manner.

Apply for the above positions with Betty Cheatah, Bldg. 34.

FOR NAVY NEWS

X 2345



Recreation Roundup

Winners announced in last weekend's racketball tourney

A racketball tournament sponsored by the Recreational Services Department was held last weekend at the Center's racketball courts.

A total of 36 players vied in three divisions of the tourney, and the results were as follows:

Advanced Division—won by Tim Jenkins, who defeated Craig Rae, 21-4, 21-3 in the finals.

Intermediate Division—won by Thomas Derr, who defeated William Hayworth 21-7, 21-7 in the final match. Third and fourth place runners-up were Curt Johnson and Richard Dominguez, respectively.

Novice Division — first place went to Barbara Foremaster, who outscored Claudia Kleinschmidt 21-19 in their first match, lost the second 21-12, and won the third game 11-5. Third and fourth place went to Eddie Thomas and Alex Quezada, respectively.

Gift certificates good for use at Recreational Services Department facilities were awarded to the above-listed winners.

BASKETBALL COURT CLOSED

The Center gym basketball and racketball courts are now closed and will remain so through Jan. 4 while the work of refinishing the wooden floors is being done.

No one will be permitted on the gym floor or racketball courts while this work is in progress, or for several days after the work has been completed in order to allow time for the curing process to take place.

REDUCED RATES FOR GOLF

New, low fees are now being charged for an afternoon of golf on weekends and holidays (when the golf course is open) at the China Lake golf course.

The green fees have been set at \$3 per person for unlimited play after 1 p.m. In addition, the cost of golf cart rentals has been reduced to \$4. These fees will be in effect through March 31, 1981.

HOLIDAY BREAK

The women's physical fitness class, held regularly on Mondays from 7 to 9 p.m. at the Center gym, has been canceled on Dec. 22 and 29.

The next session of this class, which is taught by Kelly Moulton, will be held on Jan. 5.

Scrimmage planned tonight between BHS, adult soccer teams

Another scrimmage to help prepare the Burroughs High School soccer team for the opening of Golden League soccer competition on Jan. 6 at Canyon High School will be held this evening, starting at 5 o'clock, at the Burroughs High School athletic field.

The opposition for the local high school's first soccer team will be provided by members of the China Lake Soccer Club, led by Dave Pavares, team coach, who holds down one of the midfield posts.

Other standout players for the adult soccer team are goalie Robert LeCavelier, Claude Schadow, forward, and defenseman John Piri and Steve Bollenbaugh.

Top players for the high school squad are forwards Larry Trovinger and Frank Ortiz, and midfielders Mike Oliver and Mike Gunther. At the present time, Jeff Simolon has the edge over other prospects for the goalie position, Coach Karl Kauffman said.



BOWLING TOURNEY PRIZE WINNERS — From an entry list of 46, these men placed first through fifth in the Men's Masters Bowling Tournament that concluded last Sunday at Hall Memorial Lanes. The prize winners are (l.-r.) John Therning, 4th, Dave Stein, 2nd; Ernie Lanterman, 1st; Jim Bowen, 3rd; and Vic Black, 5th. Lanterman, a mechanical engineering technician in the Ordnance Systems Department's Systems Technology Branch, had a high game of 254 in tourney competition, and finished with a 207 average. He bowls on Monday nights in the Premier League, in the Friday Night Mixed League, and also is a member of the Naval Weapons Center's traveling team that vies in Mojave Desert Interservice League bowling. —Photos by PHAA Mark Reinhard

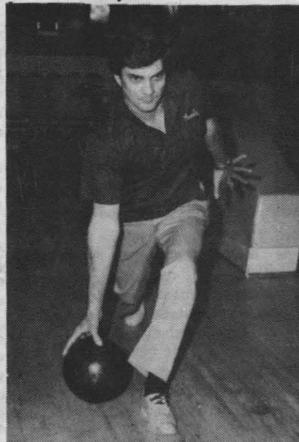
Lanterman wins Men's Masters Bowling Tourney

Ernie Lanterman won the first annual Hall Lanes Men's Masters Bowling Tournament Sunday when he defeated Dave Stein 219 to 185 in a head-to-head match.

Stein gained the final round by defeating Jim Bowen 200 to 174. Bowen, the third place winner, had previously taken on and beaten John Therning (fourth place) 188 to 171, and Vic Black (fifth place) 222 to 217.

Trophies were awarded to the winners by Ken Dalpiaz, president of the Ridgecrest/China Lake Bowling Association. No. 300 games were rolled; the highest total achieved by any of the 46 entrants was a 279 rolled by Stein in the last qualifying round.

The final matches of the tournament were televised on Channel 3, the local TV channel.



Ernie Lanterman

Intramural Basketball League pace setters win 2 games each

Two wins apiece by the Charlton-Simolon team in Division A and by the Loewen's B squad highlighted last week's Intramural Basketball League action at the Center Gym.

The Charlton-Simolon cagers got off to a slow start and trailed We Party 22-14 at the end of the first half in their Division A tilt. It was a different story during the final 15 min. of play, however, as the Charlton-Simolon team outscored We Party by a margin of 27-16 and swept to a 41-38 victory.

The winners were led in the scoring department by Mason Bazemore and Scott Robbins, who pumped in 14 and 10 points, respectively. Top scorers for We Party were Roosevelt Reed (10) and Glen Polk and Garry Wallace (8 points each).

Bazemore also was the high point man with 12 for the Charlton-Simolon cagers team in their 46-32 win over Desert Motors. After rolling up a 9 point halftime lead of 19-10, the Charlton-Simolon squad outscored Desert Motors 27-22 in the second half.

In two other Division A tilts, We Party posted a 44-37 win over Loewen's A, and Desert Lakes outscored the KMCC Piranha 39-33.

Millard Bell racked up 16 points to lead We Party to its win over the Loewen's A squad, while Tiny Clark chipped in 10 for the losers in this contest. We Party held a halftime lead of 25-18.

A 16-point scoring performance also was turned in by Al Sorenson, who was instrumental in the 39-33 win by Desert Lakes

over KMCC Piranha. Gary Barnes backed up Sorenson with 9 points for Desert Lakes, while the high point man for the KMCC Piranha was Terry Pangle with 8.

In Division B competition, the Loewen's B hoopers ambushed F Troop by a score of 50-43, and whizzed past the Zephyrs 61-27.

Joe Esparza of F Troop was the high point man in the game against Loewen's B as he tallied 28, but Loewen's had a better balanced offense and finished the game with three players in the double-figure scoring column. They were Ken Dorrel (15), Dale Christensen (12), and Mel Miles (11).

Loewen's B trailed 27-23 at halftime in the game against F Troop, but had a 27-16 advantage in scoring during the final 15 minutes of play.

In their game against the Zephyrs, the Loewen's B hoopers had an easy time of it as they piled up a 28-13 halftime lead and then won, going away, by a difference of 34 points.

P & C's Antiques blasted the Supply Bombers 45-14, but then came out on the short end of a 43-34 contest in another game played last week against the Floorburners. Scores of other Division C games were Chicken Hawks 38, Pizza Villa Poochies 25, and CSC 50, Gasbags 22.

The Supply Bombers were no match for P & C's Antiques as they fell behind 20-5 in the first half, and matters went downhill from there. Top scorers for P & C Antiques were Edward Brooks and Jim Spencer, with 12

(Continued on Page 7)

Results reported of OTHTC's 5-mile prediction run

In spite of a smaller turnout than sponsors of the event had hoped for, a successful 5-mile prediction run was held last Saturday by the Over-the-Hill Track Club (OTHTC).

This event, the final one of the fall season for the OTHTC, started and finished at the entrance to the Desert Empire Fairgrounds in Ridgecrest, and runners followed a double loop course along paved and unpaved roads in the vicinity of the fairgrounds.

This was not a speed contest, but one in which runners had to announce their finish time before the start of the event. The competition was stiff as there were 10 runners who finished the 5-mile run within 30 sec. of the times they had predicted for themselves.

The most accurate judge of his pace was Larry Meyer, who hit it right on the button as he covered the 5-mile distance in 37 min., 30 sec., the exact time that he had predicted.

Tom Rindt placed second in 30:58, which was just 2 sec. off his 31 min. prediction and also the second fastest time of the day.

Two other runners finished within 10 sec. of their predicted times for this event. They were Dave Lehmann and Mike Mumford, who covered 5-mile distance in 38:25 and 35:06, respectively, compared to their pre-race forecasts of 38:30 and 35:15.

The swiftest time for the 5-mile run was turned in by Mike Hartney, who was clocked at 30:18. This earned him ninth place in the prediction run.

Triangle Mobile Homes team retains Premier League lead

The Triangle Mobile Homes team continued to set the pace Monday night in the Premier (scratch) Bowling League by increasing its lead to seven games over the Buggy Bath, and also rolling the league's high team series for the night—a total of 2,863.

The Triangle Mobile Homes keggers won two of three games from the Raytheon Sidewinders, while Fisher Plastering turned back the second place Buggy Bath squad two games to one. By doing so, Fisher Plastering gained sole possession of third place, just a game behind the Buggy Bath.

High team game for the night was the 1,033 posted by Fisher Plastering.

Seven Premier League Bowlers equalled or exceeded the 600 series mark on Monday night at Hall Memorial Lanes. The bowlers and their scores are: Ernie Lanterman (627), Thad Brightwell (622), Warren Turnbaugh, Jim Bowen and Jeff Mattick (613), Roger Rivest (602), and Mike Dowd, 600.

Those who had single game scores better than 220 were Lanterman (234), Brightwell and Rivest (232), Turbaugh (225), John Salyers and Loy Espiritu (224), Earle Roby and Dowd (223), and Ed Ranck and Bowen (222).

Current standings in the Premier League are:

Team	Won	Lost
Triangle Mobile Homes	34	11
Buggy Bath	27	18
Fisher Plastering	26	19
Clancey's Claim Co	24	21
The Place	23	22
Raytheon Sidewinders	21	24
Parlow Construction	21	24
Hideaway	20	25
Elks Lodge	17	28
E.R.I. Hustlers	13	32

NWC varsity hoopsters to take on Marine team

The NWC varsity basketball team, led by Skip McIntosh, an all-Navy player during the 1980 season, will tangle with the Camp Pendleton Marines in two games following New Year's Day.

Tip-off time for the first tilt is 8 p.m. on Friday, Jan. 2, while the second contest is scheduled at 1 p.m. on Saturday, Jan. 3. Both games will be played at the Center gym.



READY FOR TAKEOFF — The first model of the hybrid target acquisition system (HYTAS) mounted on the side of the helicopter seems to be peering at flight test crew members with both its RF and its IR sensors. Crew members, (l. to r.) are Ken Wetzel, Greg Urban, and Dan Morris.

HYTAS undergoes tests . . .

(Continued from Page 1)

of the two sensors means that much longer target detection and recognition ranges may be achieved in a smaller package and with less power consumption.

A similar IR sensor was tested in fiscal year 1979 at NWC by being mounted in a van with targets (tanks, trucks, jet aircraft and flying helicopters) moved through its field-of-view and imaged. That test showed that not only could a good target image be achieved by the sensor, but also that background features would be rejected as well. Once this crucial test had been passed, flight testing could proceed.

For the FY 80 HYTAS flight test both sensors were mounted on a special platform, attached to a helicopter and boresighted. The tests were flown in mid-September. Two of the tests were conducted from the NWC helicopter and two from the VX-5 helicopter.

The helicopters flew along one of the range access roads down which an Army 2½-ton truck, an M-48 tank, a 1-ton truck and a ½-ton truck traveled.

The sensors showed a distinct insensitivity to the background clutter, and ground vehicle velocities were determined. HYTAS personnel are still working on improving target imagery — some of this

was disturbed by helicopter vibration.

Hintz (who has worked primarily with the laser sensor) says that the idea for HYTAS and its development has been the result of a large number of people working closely together. The RF sensor was the work of Ray Magorian, Mits Hata, and Ken Wetzel of the Fuze and Sensors Department. Ideas to help make both sensors work well and to coordinate the system have come from a large group of technical personnel from both the Aircraft Weapons Integration Department and the Fuze and Sensors Department.

"A tremendous amount of help was forthcoming from the personnel at the airfield," says Hintz. "In the last stages of the program when the NWC helicopter was not available, Major Richard Peasley and Staff Sergeant Alexej Borissenko of VX-5 made their helicopter available for testing. This was really the key to getting the flights off."

The flight tests were most challenging. Helping to make these successful (in addition to the skill of the pilots) were Tom Loftus, who served as project engineer; Lee Humble, whose technical skills proved to be essential; and Dan Morris, who developed the electronic Doppler processing.

An exploratory development program has now begun to produce second generation hardware that will include optimized sensors for test flights on attack aircraft. HYTAS promises to provide a solution to many current Navy and Marine Corps deficiencies in the critical area of target acquisition in close area support.



SICK BAY MOVED — A ribbon cutting ceremony, followed by a cake cutting by LCDr. Greg Waddington, officer-in-charge of the Navy Regional Medical Center's Branch Medical Clinic at China Lake, was held Monday morning to call attention to relocation of the sick bay at Armitage Airfield to a new location in a building next door to the airport passenger terminal. The sick bay is manned by a hospital corpsman and a SAR corpsman, who are on duty on weekdays (except for holidays) Monday through Friday from 7:30 to 11:30 a.m., and from 12:30 to 4:30 p.m.

GOOD WISHES AT CHRISTMAS

With the approach of the holiday season, with its festivities and good cheer, and with its emphasis on giving and sharing, it is appropriate for each of us to pause and reflect on the enduring, spiritual aspects of our lives.

Our hope for peace on earth remains strong and unshakable, but we have learned from history that in order to preserve peace, our nation must be strong, and in order to be strong, we must have a powerful Navy and Marine Corps. Our strength is very real, it is a great force for good in the world, and this is possible only because of the efforts and sacrifices you make—you, the men and women of the Navy-Marine Corps team and your families.

So wherever you are today, whether at home or far away, on the sea, under the sea, over the sea or ashore, may you have a happy holiday season and the satisfaction of knowing you are doing a vital job, and doing it superbly. Your sacrifices are deeply appreciated by a grateful nation. Merry Christmas to all of you and your families.

Edward Hidalgo, Secretary of the Navy

The advent of the holiday season causes us to set aside our day-to-day concerns and reflect on our position in life, accomplishments, opportunities and future. We have much to be thankful for: freedom, national prosperity security and a potential for an even more prosperous future. Also, many of us will be reunited with friends and family members giving us still more cause for celebration.

But, during this festive time, let us also take time to reflect on troubled areas of the world: Iran, Afghanistan, Poland . . . Remember, too, those Americans who are not able to be with their friends and families because duty requires their presence at stations and on ships throughout the world. In particular, let our thoughts be with the American hostages of Iran, now enduring their second holiday season in captivity, and with naval personnel serving extended sea duty on the Indian Ocean.

To all Naval Weapons Center personnel, their families, and friends we extend our best wishes for a safe and happy holiday season and a prosperous and peaceful New Year.

R. M. Hillyer, Technical Director

Capt. W. B. Haff, USN, NWC Commander



NOTABLE ACHIEVEMENTS — Rear Admiral Glen W. Lennox, Commander, Light Attack Wings, Pacific Fleet, flew here Monday to present awards denoting excellence in BEQ operations and at the Enlisted Dining Facility during a ceremony held in the Michelson Laboratory auditorium. In the top photo, RAdm. Lennox presents the 1979 second place Admiral Zumwalt Award for BEQ excellence to Master Chief Jerry Cook, Chief Petty Officer of the Command, and to MSC James Poindexter, BEQ officer. In the lower photo, Lt. John Martin (in center) Food Services Officer, accepts the second place 1980 Ney Award in the small shore station dining facility category from RAdm. Lennox; as Capt. William B. Haff, NWC Commander, looks on. Both RAdm. Lennox and Capt. Haff congratulated the Navy men and women who were responsible for the winning of these two awards, which reflect the outstanding manner in which BEQ and Enlisted Dining Facility personnel have done their part in improving the overall quality of living quarters and food service available to enlisted military personnel at NWC.





SELECTED— Sandra T. Hepburn, who was a Yeoman Third Class during the July to September period for which she was chosen as Bluejacket of the Quarter by Air Test and Evaluation Squadron Five, has since become a Yeoman Second Class.

YN2 Sandra Hepburn picked as Bluejacket of Quarter by VX-5

Yeoman Third Class Sandra T. Hepburn has been selected as Air Test and Evaluation Squadron Five (VX-5) Bluejacket of the Quarter for July through September.

Originally selected as Sailor of the Month for July, YN3 Hepburn's exemplary qualities of professional competency, consistently good appearance showing her obvious pride in wearing her uniform, and her superb "can-do" attitude led to her recognition as Bluejacket of the Quarter.

Capt. N. B. Nash, acting Commanding Officer of VX-5, in a letter of commendation to YN3 Hepburn states that "your exemplary performance has been most impressive and has contributed significantly to the overall effectiveness of this command. My congratulations and 'Well Done.'"

Since her selection as Bluejacket, she has been promoted to second class.

YN3 Hepburn now becomes eligible for the Bluejacket of the Year competition held under the sponsorship of the Indian Wells Valley Council of the Navy League.

She will be appropriately honored and recognized by the Military Affairs Committee of the Ridgecrest Chamber of Commerce, joining the local chamber as a guest for either a breakfast or lunch meeting. She will also have the use of a rental car from Hucek's Travel Service for the weekend of her choice, plus a \$25 gasoline allowance from the Chamber of Commerce. In addition, she will receive a gift certificate worth at least \$25 from the CofC.

Presentation of Michelson Lab Awards set Jan. 9

The Michelson Laboratories Awards will be presented on Friday, Jan. 9, during a luncheon in honor of the recipients. The luncheon will be held in the Mojave Room of the Commissioned Officers' Mess, starting at 11:30 a.m.

The Michelson Laboratories Award is designed to recognize technical and professional excellence based on an individual's singular efforts in performance of duties that are outstanding in nature and serve to further the mission of the Naval Weapons Center.

This award, established in 1966, is complementary to the Center's highest local award — the L. T. E. Thompson Award.

Reservations for the awards luncheon may be made by calling NWC ext. 3105 before 11:30 a.m. on Jan. 7.

Interactive Graphics contract worth \$60 million is up for grabs by highest bidder

The earnest-looking group of people thronging into Cactus Hall at the Community Center yesterday represented computer companies from throughout the nation. They were at China Lake to attend a pre-proposal conference to answer questions that they might have about the Navy's interactive graphics program before they submitted bids on a contract potentially worth at least \$60,000,000 to the successful bidder.

The initial contract would cover \$10,000,000 for interactive graphics hardware for Naval Material Command R & D centers, \$20,000,000 for interactive graphics hardware for other Navy activities, and \$30,000,000 for software and support activities.

Turnkey engineering interactive graphics is a growing and exciting field that has electronic, mechanical and manufacturing applications. While currently only two Navy laboratories have interactive graphics expertise, many private sector concerns have been heavily involved in the field for several years.

The pre-proposal conference was held at NWC because the Center is the Navy's lead laboratory for interactive graphics. The local interactive graphics program has been in operation for some time, and a new group to support lead laboratory capability is now being formed.

The contract on which the vendors are bidding will be signed by September 1981, with initial hardware due the following month for acceptance testing. The first production hardware will be delivered to NAVMAT R&D centers beginning the following March.

The NWC Navy Laboratory Support Group will receive hardware and software configuration under the new contract in October 1981.

A group to support the lead laboratory capability is being organized now to help with the planning that is necessary before hardware is selected, as well as with the myriad of support activities required once delivery begins.

Open positions in this new group include those of electronic engineering, mechanical engineering, industrial engineering, and computer science. These positions will be advertised by Code 3306 and filled during the first half of fiscal year 1981.

Police reports . . .

A Command-authorized search of vehicles Monday afternoon near the entrance to Armitage Airfield turned up an unloaded .38 calibre pistol in the trunk of a car driven by an NWC civilian employee.

The driver told police he had forgotten that the gun, which belonged to a friend of his, had been left in the vehicle trunk.

After running a check to determine that the weapon wasn't stolen, the police returned the gun to the driver of the vehicle and reminded him that no personal firearms are permitted in restricted areas of the Naval Weapons Center, except during such designated times when a portion of the range recreation area is open for hunting.

WALLET TAKEN

Theft of a wallet, inadvertently left on the seat of a government vehicle while it was parked at Armitage Airfield, was reported Tuesday afternoon to China Lake police.

The victim, a Navy enlisted man, had gone into one of the shops at the airfield for lunch, and returned to find that his wallet containing \$360 in cash was gone.

2 THEFTS AT AIRFIELD

China Lake police last week received reports of two thefts that occurred at Armitage Airfield.

In one instance, a large fire extinguisher valued at more than \$600 was taken. It had been stored on a cart parked on the north ramp of the aircraft parking area.

On the same day, a flight bag was stolen from Rm. 3206 in Hangar 3. The bag contained a flight jacket, a set of dungarees, a winter hood and a knife. The loss was estimated at \$178.

TOOL BOX STOLEN

Theft of a tool box and tools valued at \$400 was reported last week to China Lake police by a Navy enlisted man.

The tool box disappeared from the theft victim's truck while it was parked in the Bachelor Enlisted Quarters' parking lot.

Be alert for road work enroute to Randsburg Wash

Drivers who travel the Randsburg Wash Road en route to Echo Range are cautioned to be alert for road work starting this week and lasting until approximately Jan. 12, 1981.

A new crossing is being built across the Trona rail lines, with a detour required from Jan. 3 through Jan. 12. The approach will be worked on before the detour is needed, and traffic will be reduced to one lane at various times until the detour is in operation.

Adequate signs will be posted to warn drivers.

AMHAN Gentry selected NWC Sailor of Month for November

Aviation Structural Mechanic Airman Michelle Gentry has been selected as Naval Weapons Center Sailor of the Month 1 November.

She is presently assigned to the NWC H Line as an A-4 plane captain. Her supervisor, Lt. M. D. Backes, in his letter of

curately carried out."

He also notes that "her total devotion to duty along with her willingness to work with and assist others has set a most favorable impression on all she came in contact with. Her immaculate personal appearance coupled with cheerful and polite personality continually set a most outstanding example for all others to follow."

AMHAN Gentry enlisted in the Navy a little over two years ago from her home town of Havelock, Iowa. Although her father is now a farmer, he served in the Armed Forces as a military policeman, and her brother is in the Army, so her family approved her decision to join the Navy.

She enjoys small town living, especially because this means that she will be able to have a lot of pets and small animals. She and her fiancé, whom she met after reporting to China Lake, jointly own a dog, cat, turtle, and guinea pigs. The tarantula in the household, says she firmly, however, is definitely his alone.

When AMHAN Gentry leaves the Navy she hopes to work as a nurse's aide in a hospital, and eventually become a registered nurse.

As a result of her selection as Sailor of the Month, AMHAN Gentry will receive a 96-hour liberty and no duty status for 30 days. She will also receive an NWC plaque, and an official letter of commendation signed by Capt. W. B. Haff, NWC Commander, will be placed in her service jacket.



AMHAN Michelle Gentry

nomination says that "she quickly proved to be a most highly reliable and competent individual who ensured all her assigned responsibilities were promptly and ac-

100-jump milestone logged by 2 women parachutists at NWC

Two new Centurions are aboard the Naval Weapons Center. These aren't Roman soldiers, but Navy test parachutists who have successfully completed 100 jumps. Qualifying as Centurions are two of the Navy's three female test parachutists—PR2 Anne Mooney and PRAN Lisa Arsenault; both qualified on Monday, Dec. 15.

PR2 Mooney qualified as the Navy's first female test parachutist last Jan. 31; PRAN Arsenault made her qualifying jump as a test parachutist on March 26.

PRCS Ron Allen says that both women are at least as proficient as their male counterparts, although petite and feminine.

The third qualified Navy female test parachutist, PRAN Nancy Schrankel, who was injured during the opening shock of her parachute while completing her 25th and final qualifying jump, is back on-center and will be on limited duty for a couple of months until she is completely recovered

from her freak injury. As soon as she is cleared for regular duty, she plans to resume her career as a Navy test parachutist.

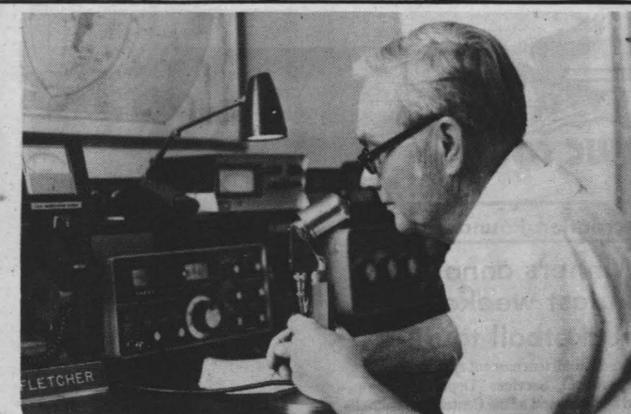
During the past month, two of the male Navy test parachutists have also achieved a milestone. PR1 Marshall Hager and PR1 Harvey Hartman have qualified as jump masters.

To become a jump master, a test parachutist must be an E-6 or above, must have completed at least 100 jumps, must meet all requirements for a Master Naval Parachutist, and must also successfully complete the jump master syllabus from the Parachute Systems Department.

Since the Parachute Systems Department arrived on-center from El Centro, Calif., seven test parachutists have been trained and qualified, and more than 1,300 jumps have been completed.



MILESTONE REACHED — PR2 Anne Mooney (l.) watches as PRCS Ron Allen congratulates PRAN Lisa Arsenault on completing 100 parachute jumps. PR2 Mooney also completed her first 100 jumps earlier the same day.



GETTING THE WORD OUT — Bob Fletcher, a local amateur radio operator who is a member of the Military Affiliate Radio System (MARS), gets set to relay a message to a serviceman stationed overseas.

Amateur radio operators supply link between military, families

Thanks to the amateur radio operators who comprise the Military Affiliate Radio System (MARS), a lot of service personnel and their families and friends will be able to wish each other happy holidays.

"Message traffic always picks up a lot around the holidays," says Bob Fletcher, head of the EMC/RF Systems in the Electronic Warfare Department, who is the chief local operator, "but we relay messages between those stationed overseas and local families all year."

Roughly 90 percent are not emergency messages, according to Fletcher. They often deal with requests for letters, with word that service personnel have arrived safely at a new duty station (and giving the address of the station), with word that leave has been granted and a request to meet a certain plane at LAX, and even messages to or dealings with the local credit union.

Messages can be originated at either end of the line. Service personnel overseas are often the originators, but the local MARS operators will relay messages originating here from families or friends of service personnel from any of the military services—just as long as a complete military address is available.

Through MARS, families of NWC civilian personnel who are on travel to military bases throughout the world can also get in touch with the traveler.

Local MARS operators with home stations besides Fletcher are Ed Sefel, Larry Backer, Bobby Weaver, Cdr. Errol Reilly, and Mike Santone. All are unpaid volunteers, putting in their own time to man the MARS network.

Class on explosives safety slated for field level workers

Enrollment is now open in an explosives safety course that will be held from 8 a.m. to 4 p.m. Jan. 19 through 22 at the Training Center.

This course is for field level employees, such as explosives workers, ordnancemen and firemen. It is not intended for engineers and other professionals.

Employees interested in attending this course must submit a training request and authorization form via proper department channels in time for it to reach Code 094 no later than Dec. 30.

Information available on summer employment

Application forms and information about summer employment at the Naval Weapons Center are now available from the receptionist in the Personnel Department Building for the convenience of students who are home for the holidays.

A description of each of the summer employment programs and criteria for each will appear in the ROCKETEER in January.

"We don't really have the amount of traffic to warrant having that number of MARS stations locally," Fletcher says, "if serving as a communication link between service personnel and home was all that we did. The real reason for MARS, however, is that the organization of amateur radio operators will be available to help the Navy in times of disaster or emergency."

About two years ago the Naval Weapons Center also got interested in having a MARS station; RMC Lonnie Duggins in the Communications Division of the Military Administration Department is contact point for this station as collateral duty.

The station is currently not functional because it is located in one of the Bishop huts and the tower and equipment must now be moved to new quarters in a quonset hut adjacent to the Earth and Planetary Sciences Building.

The Navy station will serve as primary contact for the "afloat" traffic through which service personnel stationed on any of 150 to 200 Navy ships in the Pacific would be able to make calls anywhere in the United States by means of telephone patches.

Potential MARS operators who helped build the antenna and tower (that now must be moved) are Bob Huckins, Bill Maraffio, Elvy Hopkins, Lloyd Brubaker, Larry Sires, George Kreager, Bill Burns, Ed Sefel, Mike Santone, Chief Duggins, Moe Furrow, Mark Hibberts and Fletcher.

Anyone who wishes to reach military personnel who are out of the country (or civilians who are on travel to overseas military establishments) only need get in touch with one of the local MARS operators to initiate a message.

Incoming messages are received only for the local area with the sole exception of the "afloat" messages, which are then patched through by collect long distance calls to the recipients. In cases where no telephone connection can be made, the messages are sent on by mail with government franking to cover the cost of the postage.

Bluejacket . . .

(Continued from Page 1)

for college credit. AT2 Ross hopes to take some college classes at Cerro Coso Community College before leaving China Lake ("I'll be able to study now because I've just passed my tests as a Second Class," he notes, "so I'll feel freer to work on college courses rather than studying strictly work-related materials.")

He plans to complete college and try for a commission in the Navy because he intends to make the Navy his career.

For being selected as Bluejacket of the Month, AT2 Ross will get a 96-hour liberty and no duty status for 30 days. He will also receive an official letter of commendation signed by Capt. W. B. Haff, NWC Commander, and an NWC plaque with his name on it.

Use of seat belts underscored during traffic safety program

In more than 99 percent of all automobile accidents, there is room inside the main body of an automobile for driver and passengers to survive—if they are seat-belted into place.

This was the basic message of the film "Room to Live" shown at the annual traffic safety program that was presented three times last Tuesday at the Center theater.

The film not only underscored that remaining inside a car instead of being thrown out in an accident was dramatically safer, but destroyed other myths that are common excuses used by individuals for not using either shoulder or lap belts when in an automobile.

"I never had to unbuckle a dead man from a seat belt" was also the basic message of Lt. Al Irwin, who commands the California Highway Patrol for the local district, and of Sgt. Jack de Coup-Crank, a veteran of 21 years with the Los Angeles Police Department.

Sgt. de Coup-Crank also startled the audience by announcing himself as a recovering alcoholic who spent the first 15 of

his 22 years on the police force as an after-hours drunk. He gave vivid examples from his own experience of driving while under the influence before he went for help for his alcoholism.

Sgt. de Coup-Crank told the audience that he was available to talk to anyone who was concerned about his alcohol intake, and said that both Billy Hise from the NWC Safety and Security Department and Dorothy Carlo from the Council on Alcohol Awareness had a telephone number through which he could be reached to provide a listening ear or council.

"You can put a cop on every corner, but that still wouldn't prevent all accidents," said Lt. Irwin. "Don't anticipate that the other driver will obey the law—or that he is sober," he warned.

Drunk driving is a misnomer, according to Lt. Irwin, who explained that the law carefully defines driving while under the influence of an intoxicant, which might be considerably different than what is commonly seen as being drunk.

"Alcohol and automobiles have a place in society, but not together," he noted.

As well as defensive driving, he also recommended strongly that all drivers and passengers always use seat belts.

"All California Highway Patrol members are legally required to use their belts at all times. We're convinced beyond all doubt that they do save lives."

Lt. Art Edmunson of the China Lake Police Division reminded all members of the audience that accidents are not preventable after they happen, that alertness before a possible accident is the only way to avoid such a crunch.

The well-attended programs were chaired by Capt. Jim Doolittle at 10 a.m., Capt. John Patterson at 1 p.m., and Capt. N. B. Nash at 3:30 p.m. Each of them expressed the concern of Center Command for the safety and well-being of all military and civilian personnel on board, and recommended that it was necessary to be as alert and cautious while driving as it was necessary for a pilot to be alert and cautious in the air.

Project Community Pride



Jan. 17, 1981

Turn in timecards early for week ending Dec. 27

All personnel who are responsible for the submission of timecards are reminded that because of the New Year's Day holiday on Thursday, Jan. 1, timecards for the regular work week ending on Dec. 27 must be turned in by 4:30 p.m. on Tuesday, Dec. 23.

This is necessary in order to meet the regular payroll on Friday, Jan. 2. No timecards are to be held out, since failure to provide the Payroll Office with an accurate timecard by the Dec. 23 deadline may result in a delay in pay for employees.

In order to meet the Dec. 23 deadline, it will be necessary for departments to project or estimate what will occur on Wednesday, Thursday and Friday, Dec. 24, 25, and 26, and submit timecards by 4:30 p.m. on Tuesday, Dec. 23.

On Wednesday afternoon, Dec. 24, if it is discovered that the timecard projections are in error as submitted, the errors can be corrected by departments, which are asked to send their payroll representatives to the Payroll Office to make any corrections between 8 a.m. and 1 p.m. on Dec. 24.

Any timecard errors discovered after Dec. 24 should be remedied by sending a memorandum to the Payroll Office, Code 08641, during the following week.

Any overtime worked after 4:30 p.m. on Tuesday, Dec. 23, through midnight on Saturday, Dec. 27, should be submitted on a supplemental timecard for payment the subsequent pay period.