



HOLIDAY JOY SHARED — Rahdsma Henderson, wife of AMS3 Jack Henderson, receives congratulations and a check from Cdr. D. A. Rein, Assistant Public Works Officer, for the outstanding Christmas decorations of her Capehart housing as five-year-old daughter, also Rahdsma, watches. Other winners for their fine holiday decorations were Peggy Vanskike and Russell and Bobbie Sanford.

Hobby classes offered by Rec. Services Dept. to begin Monday

China Lake personnel, both military and civilian, and their dependents who resolved that they would spend their spare time in constructive hobbies will have a chance to exercise their New Year's resolutions promptly. The Recreation Services Department Craft Center is offering a series of classes that will start next week.

Registration for any of the classes is \$12 for DoD civilians or their dependents, and \$10 for military personnel or their dependents. Students can register by telephoning NWC ext. 3252. Students are also required to furnish all their own craft supplies.

All classes run for a total of six weeks (12 hours of instruction) and are taught at the

NEX automotive garage doors being replaced

To improve both safety and service, the Navy Exchange automotive garage is replacing the overhanging doors on the west side of the service station.

Automotive repair service to patrons will not be interrupted, but patrons are asked to take their cars to the east side of the building for service or to telephone 446-5044 for information or for an appointment.

How time flies . . .

This week's "Remember When..." personality is Sonja Tucker Guiliani, special security officer in the Weapons Planning Group.

She began work for Carl Schaniel in Code 12 in 1964 and "found a home" in the group she has been with for the past 18 years.

The ex-Marine she married is Bill Guiliani, now head of the Defense Property Disposal Office, and the family includes a daughter, Gia, who is a freshman at Cerro Coso Community College, and a son, Deron 15, who is a sophomore at Burroughs High. Deron also is a disc jockey for radio station KLOA in Ridgecrest.

Far from being an armchair athlete, Sonja has recently taken what her husband describes as a "fanatical interest" in golf. She also plays racquetball and has been a member of women's softball teams here.

Sonja's father and mother, David and Verna Tucker, are long-time residents. They will be celebrating their 50th wedding anniversary this month.

Topics of individual improvement offered at college workshop

Cerro Coso Community College is holding a free all-day workshop tomorrow designed to present information and inspiration to those who have not attended college or who may be interested in going to school and furthering their education.

The program begins at 9:30 a.m. at the college campus with a discussion on returning to college and how well the returning student fares. Workshops to be presented in the morning include "Self Awareness," "Time Management and Goal Setting: Establishing Priorities," and "Dress for Success."

After a free lunch, the afternoon workshops include "Stress Management: Balancing the Conflicting Roles," "Child Care: Problems and Solutions," and other sessions on financial planning, activity ideas for 1983, and career exploration.

Free child care is offered by Cerro Coso Community College for those who attend. Free transportation will also be provided for anyone who needs it; those who wish transportation are asked to telephone the college as soon as possible at 375-5001, ext. 202.

Reno's MGM Grand Hotel has discounts for DoD personnel

A special, low-cost vacation package is available to military personnel, federal government Civil Service employees, and their dependents at the MGM Grand Hotel in Reno, Nev.

The offer, which is good until Jan. 31, includes luxury accommodations for one night at \$19.50 per person (double occupancy), or \$29 for a single person.

Also, a part of this special package is a cocktail performance of Donn Arden's musical extravaganza "Hello Hollywood Hello." Two complimentary drinks are included as a part of the offer.

For those arriving on Friday and Saturday, this offer is open on a two-night basis only and the charge for accommodations is \$34.50 per person (double occupancy), or \$59 each for singles.

Reservations at the MGM Grand Hotel can be made by calling the toll-free number 800-648-5080.

Flutist, harpist paired up for concert program Monday night

Featured musicians in the third concert of this season's Indian Wells Valley Concert Association program are flutist Carol Wincenc and harpist Heidi Lehwalder.

The concert will be held on Monday at 7:30 p.m. at the NWC theater. Individual admission tickets for those who do not hold season seats are \$5 for general admission, and \$3 for students under 21, senior citizens and enlisted military personnel. These are available at the Music Man and Medical Arts Pharmacy in Ridgecrest, and at the Maturango Museum. Any unsold tickets will also be available at the theater box office at 1:45 p.m. on the day of the concert.

A student program by Carol Wincenc and Heidi Lehwalder will be held at the Burroughs High School lecture center on Tuesday at 10 a.m. for junior and senior high school instrumental music students. A few seats will be available for the general public to attend this free concert. This free program is presented as an educational service of the IWW Concert Association, made possible by contributions to the Student Education Fund.

Ms. Wincenc is the winner of the Naumburg Solo Flute Competition, and Ms. Lehwalder won the distinguished Avery Fisher Prize. Both have led outstanding careers as performers separately as well as the two years that they have been touring together.

They will perform Bach's "Sonata in C Major;" "Narthez," by Andres; "Serenade

No. 10," Persichetti; "Fantasy for Flute and Harp, Opus 124," Saint Saens; "Le Tambourin," Gossec; "Song," Faure; and "Entracte," by Ibert, during their program.

Ms. Lehwalder will also play the "Scintillation for Solo Harp" by Salzedo and Ms. Wincenc will play "Echoes for Solo Flute" by Romain.

A native of Buffalo, New York, Ms. Wincenc made her debut in 1979 after winning first prize in the 1978 Naumburg flute competition. She has been principal and solo flutist with the St. Paul Chamber Orchestra and has appeared with orchestras throughout the United States and Canada.

As well as collaborating with Jean-Pierre Rampal, Bella Davidovich, Jessye Norman and Elly Ameling, she has been guest artist for three seasons in Lincoln Center's Great Performers Series. Ms. Wincenc records for Musical Heritage Society and CRI.

Ms. Lehwalder is a rarity in that she has achieved a career as a solo harpist.

She began studying the instrument at the age of seven, made her concert debut with the Seattle Symphony at nine, and earned honors in the Tel Aviv International Harp Competition at the age of 12.

She has toured America with a number of groups and has appeared as a guest with the New York Philharmonic, the Cleveland Orchestra, and the National Symphony.

Several harp concertos have been composed for and dedicated to her. Ms. Lehwalder records for the Nonesuch label.

MOVIES

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

Regular starting time 7:00 p.m.

FRIDAY	"HANKY PANKY"	JANUARY 7
	Starring Gene Wilder and Gilda Radner (Comedy, rated PG, 109 min.)	
SAT., SUN.	"ROBIN HOOD"	JANUARY 8, 9
	Starring Roger Miller and Peter Ustinov (Animated, rated G, 83 min.)	
MONDAY	"THIEF"	JANUARY 10
	Starring James Caan and Tuesday Weld (Crime/Drama, rated R, 123 min.)	
WEDNESDAY	"PRIVATE LESSONS"	JANUARY 12
	Starring Sylvia Kristel and Howard Hesseman (Comedy/Drama, rated R, 87 min.)	

Martin Luther King memorial service scheduled Jan. 16

The Naval Weapons Center, the local chapter of the National Association for the Advancement of Colored People, and the Union Missionary Baptist Church of Ridgecrest will join in a service honoring the memory of Dr. Martin Luther King, Jr., at the All Faith Chapel on Sunday, Jan. 16, at 3 p.m.

The community effort will recognize the principles of peace and brotherly love that Dr. King tried to promote during his lifetime.

The Union Baptist Church Choir will be joined by the Young People's Choir of the Hebrew Congregation, and by the Rev. Ezra Turner and the Pleasant View Baptist Church Choir of Bakersfield.

The services will include dedication of a bust of Dr. King sculpted by Frank Varga that will then be placed in the art gallery of Cerro Coso Community College.

Tenants' group to elect officers at meeting Mon.

New officers for the tenants' Community Council during 1983 will be elected at the regular monthly meeting for all tenants in Center housing. The meeting will begin at 7 p.m. Monday in the East Wing of the All Faith Chapel.

Other business to be considered includes a question-and-answer session involving what has happened with Center housing during the past year and what is planned for this year.

All residents of Center housing are invited to attend.

CL Players tryouts set

Tryouts for the China Lake Players first production of 1983 will be held on Monday, Tuesday and Wednesday, starting at 7:30 p.m., at the Playhouse (corner of Blandy Avenue and Lauritsen Road).

The play is a comedy-mystery entitled "Catch Me If You Can," and there are parts for five men and two women.

AFGE to meet Monday

The American Federation of Government Employees, Local 1781, will have its regular monthly meeting on Monday at 7 p.m. at 520 E. Inyokern Road.

U.S. Government Printing Office:
1983—No. 8

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To: 	



NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

Owens dust control study nearly complete

A two-year, state-funded study of methods to control dust emissions from Owens Dry Lake is nearing completion, and decisions will need to be made by the end of May whether to continue or extend the operation into a pilot program or whether to terminate the study.

The Owens Dry Lake Task Force, of which the Naval Weapons Center is a member, contracted with Westec Services, Inc., to study three methods of controlling dust rising from the lake bed that has been dry since the 1930s following construction of the Los Angeles aqueduct.

The most promising of dust control methods involves constructing 3-foot snow fences at intervals across the lake surface. The fences reduce ground-level wind velocities and cut down the amount of sand particles moving across the salt-crust surface of the lakebed. When the surface is abraded, the smaller dust particles rise into the air where they can be carried throughout the region by the wind.

A secondary method of dust control (especially around the perimeter of the lake) is to spray the surface with a stabilizing compound like those used to stabilize helicopter pads. The spraying would need to be repeated at regular intervals, the interval determined by the substance used as a stabilizer.

The third method of controlling dust involves planting hardy plants or shrubs on the man-made sand dunes and gradually withdrawing the irrigation required to establish them until they can survive on natural precipitation.

Alternatives that must be considered by the Owens Dry Lake Task Force include bringing the study to a halt when the initial \$250,000 funding runs out, continuing to study the three methods of dust control, or proceeding with a pilot program to control the dust.

The decision hinges on being able to identify funding to continue.

First goal of the Task Force is to provide support for lobbying efforts by Assemblyman Phil Wyman and State Senator

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Civilian rental rates on Center to go up Feb. 1

Information on the annual adjustment of civilian rental rates for Naval Weapons Center housing facilities has been received from the Western Division of the Naval Facilities Engineering Command in San Bruno, Calif. The new housing rental rates will go into effect on Feb. 1.

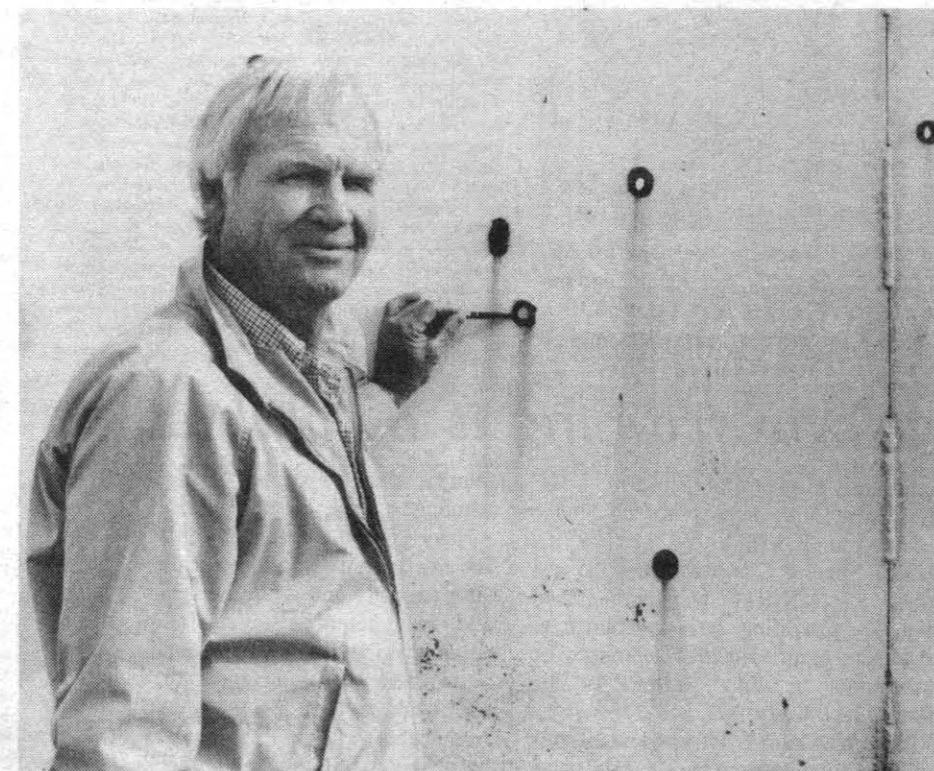
A rise in the Consumer Price Index (CPI) requires an adjustment to the shelter rents established in the appraisal report of September 1979. The CPI is used for rental adjustments on all military family housing that is occupied by civilians.

The average increase is between 4 and 5 percent, which is lower than last year's boost of about 6 percent. Utility rates remain the same at this time.

Active duty military personnel assigned to public quarters for which Basic Allowance for Quarters (BAQ) is deducted are not affected by this change in rental charges.

See rental rate chart on Page 1.

Test program conducted to provide more fire power for Marine attack helicopters



ARMOR PLATE DAMAGE INSPECTED — Jack Bates, Gun Systems program manager, inspects damage to a 5/8th in. thick section of armor plate that was used as a target during helicopter firing tests of the MK-149 Phalanx 20mm armor-piercing, discarding sabot rounds. The penetrator not only pierced the armor plate, but also put holes through metal braces used to support the target.

Police sgt. gets Commander's Award for drug program work

Superb police work in undercover investigation of drug traffickers that led to their arrests earned Sgt. John Pracchia of the China Lake Police Division the Commander's Award for Excellence in Mission Support.

When Capt. Lahr presented the award in the Commander's meeting held on Monday morning, he commented that a "magnificent job was done" on a cooperative basis with the China Lake Police Division and the Ridgecrest Police Department that really hurt the drug dealers by hitting them in the pocket book, and therefore made the community a better place in which young people can live.

Burrell Hays, NWC's Technical Director, added that he offered his congratulations for the civilian community as well as the military one.

Sgt. Pracchia's undercover operation began in February 1982 and culminated in September 1982 with a total of 31 arrests for narcotic sales. His investigation took him to areas and suspects employed at the Naval Weapons Center, in the City of Ridgecrest, and areas of Kern County.

Working with Command, city and county approval, he was able to set the undercover operation in motion using a newly-hired China Lake police officer and several civilian and military citizen informants. He and his group were able to purchase narcotics from dealers within the area.

The investigation, which was conducted night and day over the seven month period, concluded only after he felt that his undercover agent could be in danger of discovery and that those suspected persons could not be brought to justice until the undercover officer's identity was revealed.

In addition, Sgt. Pracchia's skill and initiative in presenting dangerous drug and

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A test program to provide added firepower for the Marine Corps AH-1J and AH-1T Cobra attack helicopters has recently been completed by personnel of the Ordnance Systems Department's Gun Systems Branch.

These tests were undertaken to determine the adaptability of the MK-149 Phalanx 20mm armor-piercing, discarding sabot (APDS) rounds, and certification of these rounds by the Naval Air Systems Command (NAVAIR) for limited use — namely, forward fixed-firing — has resulted.

The MK-149 ammunition is currently in the Naval Sea Systems Command inventory where it is used aboard ship in the Phalanx Close In Weapons Systems.

Marine Corps attack helicopters are equipped with an M197 20mm gun system, and can carry 20mm gun pods, but they are in need of ammunition that is capable of defeating armored targets such as personnel carriers, self-propelled tracked vehicles of the kind used to transport missiles, and light tanks.

In searching for a way to upgrade the effectiveness of Marine Corps AH-1J and AH-1T attack helicopters against light armor targets, there was the choice of a long, costly program of developing a new, armor piercing round, or determining if the Phalanx 20mm round could be certified for helicopter use, according to Jack Bates, Gun System Program Manager in Code 3247.

The primary concern of tests carried out here at the Aircraft Survivability Range and G-1 Range was whether any part of the helicopter would be damaged when the discarded sabot fragments were encountered in flight.

During the initial phase of testing to determine the feasibility of firing Phalanx 20mm APDS rounds from AH-1J/T helicopters, ballistic damage tests were conducted on the ground at Aircraft Survivability.

In the Phase 1 ground tests, an air gun was used to fire sabot fragments against rotor blades, helicopter canopies, and the rigid foam shields used on the front of the Tube-launched Optically Tracked Wire-

(Continued on Page 4)



LOADING 20mm AMMO FOR TEST — In preparation for a test, a box containing belts of MK-149 Phalanx 20mm armor-piercing, discarding sabot rounds is loaded aboard a AH-1J Cobra helicopter by AO2 Swelling Lippwe (at left) and AO2 Mark Jalonen. Holding an inert sample of this same round is Marine S/Sgt. Alex Borissenko, who assisted in planning and conducting the helicopter engine injection tests.



Results reported of Over-Hill Track Club orienteering run

A band of hearty outdoor enthusiasts braved the morning chill on Dec. 31 to test their skill at running and map reading in the Over-the-Hill Track Club's orienteering run.

Participants start at timed intervals, spaced at two-minutes, and proceed first to a master map where they mark their copy of the map with flag locations, bearings, and distances to flags. Next, they head out on the course to find each flag in the numbered order of the flags.

Proof that one has found a flag requires copying a unique symbol given at the flag on a route verification card. Clue cards aid the participants with such hints as: "on rock pile, near road, facing north."

Normally, orienteering runs are held in wooded country where trees help hide flags and participants are unable to follow the runner ahead of them. Dan and Dave Rugg, course designers, overcame the need for trees by placing the flags behind hills and in gullies in the rugged desert south of Cerro Coso Community College.

Glenn Roquemore completed the 4 plus mile course in 37 min., 40 sec., which was more than 7 min. faster than Mike Mumford. Roquemore and Mumford placed first and second in the men's 30- to 39-year old age category, with Tom Marshall third.

Kathy Martin won overall honors in the women's division with a time of 78:30. Pacing her was her son, Eric, who at 8 years of age was the youngest entrant. He posted an 80:29 for first place in his age group.

The men's division for runners over 40 years of age was won by Bob Westbrook, who was clocked at 69:50, while Jerry Banister and John Anderson placed second and third, respectively.

Glen Banister placed first in the men's under 30 category and David Tipler was the winner in the 11- to 15-year-old division for boys.

Scotty Broyles, who competes in the over 50 years of age division, scoured the hills but was unable to find the No. 2 and 3 flags. When he finally stumbled over the fourth flag on the course he decided to complete the remainder of the race, even though he was two flags shy of the required total.

Youth basketball League play opens at NWC gym tonight

The 1983 season of Youth Basketball League competition gets underway tonight with games at the Center gym between teams entered in the Junior Division.

Tip-off time is 6 p.m. for a contest between the Pacers and Bucks, and it will be the Hawks vs. Spurs in the nightcap at 7:30. The Trailblazers, another team in the Junior Division for 11- and 12-year-old players, have drawn a bye during this opening round of play.

The six teams that make of the Intermediate Division for boys and girls 9 and 10 years of age will clash on Saturday morning, also at the Center gym. It will be the Celtics vs. the Nuggets at 8 a.m., the Bulls vs. the Rockets at 9:30 a.m., and the Nicks vs. Pistons at 11 a.m.

The four-team Instructional League for 7- and 8-year-olds will begin action at 8 a.m. tomorrow in the Youth Center gym with a tilt between Bulls and the Mets, and it will be the Stars vs. the Suns at 9:30.

A total of 15 teams and 180 players make up the Youth Basketball League. Games will be played on Friday nights and Saturday mornings for nine weeks — through March 4-5.

Burros girls win Edison basketball tourney title

A chance to make up for their only defeat of the season comes up tonight for the Burroughs High School girls' varsity basketball team, which will travel to Palmdale for the Golden League opener. Tip-off time is 8 p.m. for the varsity tilt.

The Burroettes are starting league play with a 12-1 record that includes a pair of hard-fought victories last week over Mater Dei (39-38) and Ocean View (54-52) while winning the championship of the 16-team Edison High School Tournament played in Huntington Beach.

The BHS girls' only loss of the season was to Palmdale (44-42) in a double overtime thriller during the Antelope Valley Tournament in early December.

In final preparation for tonight's start of the 1983 Golden League basketball season, the varsity girls' basketball team from Burroughs was in action Dec. 27 through 30 at Huntington Beach, where the Burros swept to the tourney title by defeating Huntington Beach 39-35 and Long Beach

Wilson 53-43, in addition to the previously-mentioned wins over Mater Dei and Ocean View.

Two players from Burroughs, Cecilia Scanlan and Charlene Kessler, were chosen on the all-tournament team, and Scanlan was singled out as the most valuable player during the tourney at Huntington Beach.

In the championship game between Burroughs and Ocean View High School of Huntington Beach, the Burros led all the way in a game that was close from the opening tip-off. The BHS girls got off to a 10-9 first quarter lead and led 18-17 at the half. The score was 33-32 in favor of Burroughs after three periods of play before the Burros opened up a 9-point lead in the final 8 min. of action.

Foul trouble, which had plagued the BHS girls throughout the contest, eliminated two of the BHS starters with 2 min. still left to play until the final buzzer and Ocean View rallied to cut the Burros' lead to just 2 points in the pressure-packed closing moments of the game.

Top scorers for the Ridgecrest team in the tourney championship tilt were Charlene Kessler (14), Cecelia Scanlan (12), and Kris Kinkennon and Andrea Veatch (10 points each).

Ocean View was led by Karen Chase, a guard, who tallied 19, and Tammy Webb, whose 16 points were all tallied in the second half.

In the semi-finals of the Edison Tournament, a 13 ft. jump shot by Scanlan with 8 sec. left to play enabled the Burroettes to pull out 39-38 win over Mater Dei of Santa Ana in a game that was a tough, defensive battle.

"Defense was the key all the way through the tournament for us," Jack Clark, coach of BHS girls' varsity basketball team, remarked as he summarized the results of the Mater Dei game.

The Burros opened up a 6 pt. lead of 15-9 in the first quarter, but from that time on the game was up for grabs. At halftime, the BHS lead was 23-20, and there was a 1-pt. margin of difference (31-30) in favor of Burroughs as the fourth period of play began.

Mater Dei led 38-37 with 21 sec. left in regulation playing time, but missed a free throw that was rebounded by the Burros. A time out to plan whom to get the ball to on what would probably be their last scoring chance was called by Burroughs. When action resumed, the ball was worked in to Scanlan, who hit a jumper that won the game when a last second shot by a Mater Dei player missed the mark.

In the scoring department, the Burros were led by Scanlan, who hit 6 field goals and 1 free throw for a total of 13, while Charlene Kessler tallied 10 points on 4 field goals and 2 charity tosses.

Kris Kinkennon played a vital role in the BHS victory as she grabbed 16 of the 31 rebounds picked off by BHS players in the Mater Dei game, and also scored 8 points.

Enroute to the tournament championship, the BHS girls outscored the host Huntington High School team 39-35 in the opening game, and posted a second round 53-43 win over Long Beach Wilson.

The Burros got off to a slow start against the Huntington Beach team, but got rolling in the second period of play and left the floor at halftime with a lead of 19-18. The Ridgecrest hoopers outscored their opponents 10-2 in the third period of play, but then showed some lapses on defense in the fourth quarter and had to hold off a scoring surge by the Oilers to win by a 4-point margin of 39-35.

Scanlan and Kessler were the top scorers for Burroughs with 14 and 10 points, respectively. Kessler was 6 for 6 and Scanlan was 4 for 4 at the free throw line.

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INTRAMURAL PLAY RESUMES — Larry Haack, of the Butler Vending quintet, puts up a shot at the hoop during Tuesday night's Intramural Basketball League game at the Center gym. Hoping for an opportunity to snap up the rebound if the shot misses are Tom Frederick (at left), another player for the Butler Vending team, and Garyl Smith and Dale Christiansen (at right) of the opposing Pearson/Loewen's squad. Top scorers for the Loewen's team, which won the game 64-47, were Smith, with 19 points, and Mel Miles and Pat Warden, who tallied 14 points each. Butler Vending was led by the 22-point scoring effort of Larry Haack.

— Photo by PH1 Benita Tetreault

BHS boys drubbed in San Berdoo cage tourney

The Burroughs High School varsity boys' basketball team, which ran into rough going last week in the San Bernardino Kiwanis Tournament, will embark tonight on the defense of its Golden League and Class 2A CIF championship tonight against Palmdale.

The Falcons vs. Burros varsity contest is slated to get underway at 8 p.m., following freshman and junior varsity tilts at 4:45 and 6:15, respectively.

Victories in their first two tourney tilts in San Bernardino were no consolation for the Burros, who were manhandled in their final two outings of the tournament that was held Dec. 27 through 30.

The Burroughs High boys' varsity knocked off Redlands 80-71, and followed that with a 66-60 win over Las Vegas before being humbled 76-53 by San Geronio and crushed 84-58 by Western High of Las Vegas.

The Burros got off to an early lead of 14-4 in the game against Redlands and then kept the pressure on to remain on top, 39-31, at the halftime intermission.

The Redlands Terriers led briefly in the third quarter, but Dan Means tallied 12 points and Danny Grattan hit 6 that helped the Burros to regain the lead, 62-51, after

three periods of play.

Another surge by Redlands in the fourth quarter enabled the Terriers to cut the BHS lead to 66-63, but three unanswered field goals by the Burros got them out of trouble and on their way to an 80-71 win.

Means was the game's high point man with 30 as he hit 12 out of 20 field goals and also looped in 6 free throws. Other players for Burroughs who made it into the double-figure scoring column in the Redlands game were John Fry (16), Grattan (12), and Mike Bailey (11).

The Terriers were led by Jon Hansen, who scored 29, and Mark Smith, who chipped in with 11.

The Burros also left the starting gate fast in their second round tourney tilt against Las Vegas — getting off to a 6-0 lead. The Nevada team rallied to take a brief 13-10 lead in the first period of play, and the shoot-out was on.

Las Vegas led 21-20 after 8 min. of play, but the Burros offense was up to the task and a 19-point effort in the second quarter resulted in a 39-32 halftime lead for the Ridgecrest team.

Las Vegas had the best of it in the scoring department by a margin of 14-10 in the third

quarter, which ended with the Burros clinging to a 49-46 lead.

Early in the fourth period, Las Vegas cut the Burros' lead to 49-47, but the momentum then shifted to the Burros who rattled off three quick field goals to surge ahead 55-47.

For the remainder of the game, the Burros succeeded in frustrating their opponents from Las Vegas by going to a ball control type of offense as they wrapped up a 66-60 win.

Means again was the top scorer for Burroughs with 20, while John Fry had 18 and picked off 12 rebounds. In addition, Bobby Bruce tallied 10 for the Burros.

Eric Johnson, the leading scorer for Las Vegas, pumped in 20 points, and Dale Major had 14 for the Wildcats.

In the semi-final of the San Bernardino tourney, the Burros found themselves outplayed in a game against the San Geronio High School hoopers, who went on from that victory to win the tournament title.

In a fast-moving game, San Geronio extended its 17-12 first quarter lead to a 35-21 advantage at halftime. In the third period of play, San Geronio outscored BHS 20-19 to

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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. Lahr. 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 employee — On a recent Friday, I asked my supervisor about attending a security briefing and was told that it was for supervisors only. Shortly thereafter, the general foreman came by and I again asked him and was told the same thing.

Why is it in the Engineering Department they tend to change the instructions to their own liking? I have not had a security briefing in at least five years. So, I was just wondering if security is for the other people and not for Engineering. Thank you.

ANSWER

In response to your question, the Engineering Department and its supervisors do not change or circumvent Center instructions or requirements, nor is the need for security lightly taken. The Center requirement was understood to have all personnel attend a security briefing, not necessarily the security briefing at the Center theater.

It was decided to send only supervisors from the Machine Shop to the security brief at the Center theater. They would then conduct shorter security briefings at the branch level highlighting key areas.

This action was based on the following considerations: (1) Machine shop personnel are rarely involved with, or exposed to, classified information and job duties, and (2) review of the security briefing's agenda revealed little information relative to Machine Shop security.

I'm told that security briefings to all machinists are now complete. All other Engineering Department personnel were required to attend the scheduled briefing at the Center theater.

QUESTION

Civilian employee — We have a large cloud of black smoke every Sunday morning and every time I have visitors, people ask me what it is and I give them the answer that I think is correct, but I would like to know more specifically what the correct answer is.

Are they burning JP-5 fuel for firefighting purposes? Maybe I'm not up to date on what is really going on. Is that the best use of our short petroleum supplies and what is it doing to the ecology of the atmosphere? I would appreciate your answer on that.

I've got faith that we are doing the right thing, but I think it would be good for everyone to know what it really is. Thank you.

ANSWER

Very good question! You are correct that the large clouds of black smoke are from fires that are set by the crash crew and extinguished with aircraft crash/rescue personnel and equipment. The purpose of the fires is to train fire fighters in extinguishing aircraft fires and practicing forcible entry and rescue from burning aircraft. These training fires are held two to three times a month.

The fuel used is contaminated aviation jet fuel that cannot be reused in aircraft. You will be interested to know that there is a program underway where contaminated JP-5 might be used in the boilers on Center. The remaining contaminated JP-5, JP-4 and Avgas fuel, which can't be used in the boilers, will continue to be used by the Fire Division for training fires.

Insofar as ecology is concerned, I guess the answer is obvious. But we must train and it can't be done without releasing pollutants. I hope this answer helps to bolster your faith that we are indeed doing the right thing.

QUESTION

Civilian employee — Through "The Skipper Sez," I would like to pat ourselves on the back for having the good sense to use simple courtesies during this time when the clogged roads are being repaired. Because we did something as basic as take turns merging, we avoided what could have been a horrible mess.

Similarly, every morning at the Main Gate, common courtesy allows the orderly merging of China Lake Blvd. and Inyokern Road traffic. For this, too, we should congratulate ourselves.

ANSWER

I agree. I know how upsetting the road repair, which seems interminable, has been, but we are almost done now and I'm sure we'll all agree the end product justified the inconvenience. China Lakers have handled the problem the same way they handle others — with class.

Volunteers sought for community cleanup day scheduled Jan. 15

Volunteers from throughout the local area are being sought to pitch in and help clean up the community on the third annual Project Community Pride Day, Saturday, Jan. 15.

Last year 765 men, women, and children spent three hours picking up 1,994 bags of litter on the base and in town before adjourning to Schoeffel Field for a free lunch of hot dogs and soft drinks. (Organizations and businesses donated the food as their contribution to the event.)

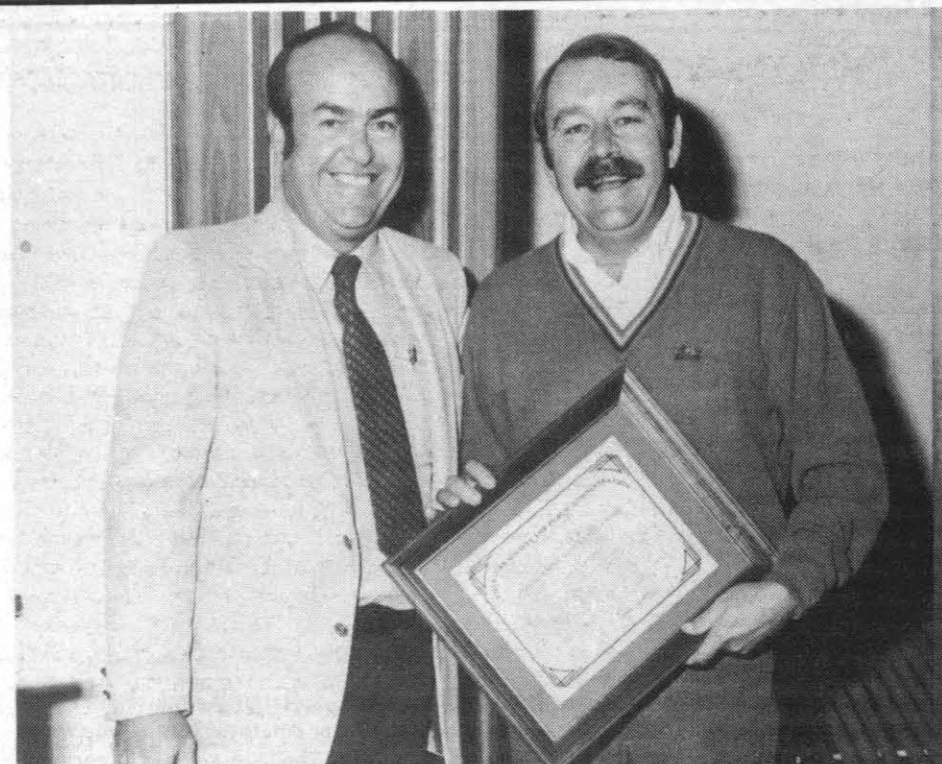
Volunteers for this event, which is sponsored by the Naval Weapons Center and the City of Ridgecrest, will gather at Schoeffel Field between 8:30 and 9 a.m. on Jan. 15. There, they will register, pick up their litter bags, get their assignments, and, if they need transportation, get on one of the

five buses that will be used to transport the volunteers to assigned clean-up areas. (Free coffee and doughnuts will be available at the registration desk.)

At noon, the buses will return the volunteers to Schoeffel Field for a free lunch of hot dogs and soft drinks before they head for home. Various businesses and organizations are again donating food or money to purchase food.

Volunteers of all ages are being sought. Those who wish to help are asked to telephone Natalie Harrison, NWC ext. 3180, to let her know so that appropriate assignments can be worked out.

"Worker bees" are asked to wear long pants and sturdy shoes. While some gloves will be available, anyone who has gardening gloves is asked to bring them along.



AWARD WINNER — Burrell W. Hays, NWC Technical Director, shows his pleasure at being able to present Steve Sanders with the certificate showing that Sanders won the Bjorklund Management Innovator Award.

— Photo by PH1 Benita Tetreault

Management Innovator Award for '82 presented to Sanders

The 1982 winner of the Bjorklund Management Innovator Award was Steve Sanders, who is now head of the Technical Information Department.

Sanders received the prestigious award from the East Kern Chapter of the American Society for Public Administration (ASPA) for his work in helping develop and implement the Civil Service Reform Act Demonstration Project at NWC and the Naval Ocean Systems Center, San Diego.

B. W. Hays, NWC Technical Director, commented as he presented the award to Sanders at a luncheon meeting of ASPA that "The award is most appropriate for Steve because he has been a risk taker whose performance has always been of high quality. He had a lot to do with getting the Demonstration Project accepted in Washington."

Hays added that the flexibility possible at China Lake has made the system work well.

Aerosystems Dept. employees present paper at symposium

Four employees of the NWC Aerosystems Department presented papers during the annual SAFE Symposium that was held in Las Vegas.

The participants in the symposium, and the subjects of their papers, were:

Tom Bozack, an aerospace engineer, "Computerized Parachute Data Base System," and David Gold, an engineering technician, "A Look at the Eagle Parachute — an Interesting and Unique Personnel Parachute of the 1940s."

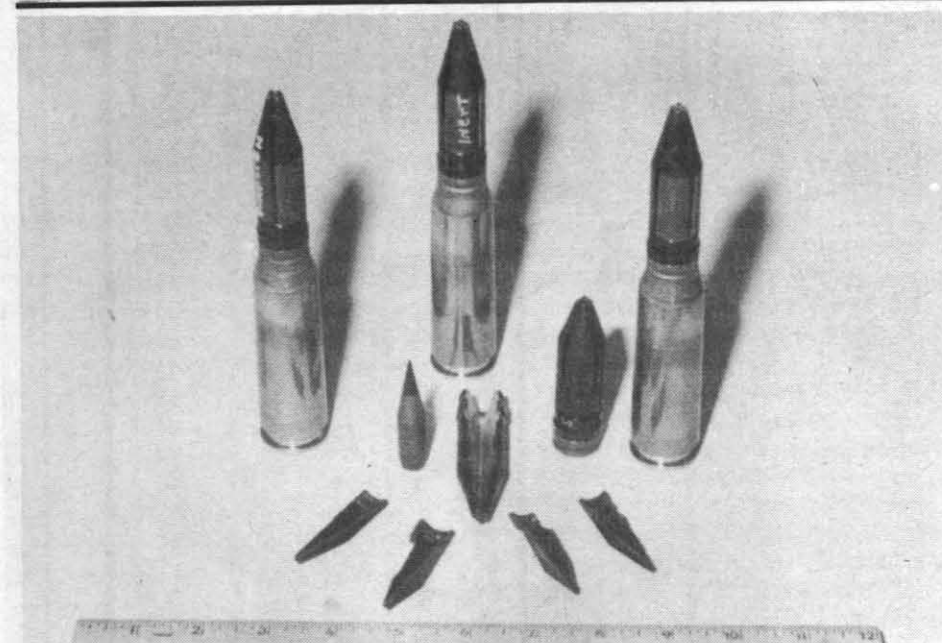
In addition, a paper entitled "A Study of Post-Egress Procedures and Techniques Conducted to Increase Aircrew Survival Following Emergency Escape Over Water" was presented by Foster Richards, an aerospace engineer; and Wally Fung, Code 64's modernization projects manager, provided information on "Future Parachute Test Capability at NWC."

Curt Bryan, head of the Aerosystems Department, attended the various sessions of the symposium during which papers on a variety of subjects were presented. He reports that, compared to others that were given, those authored by NWC employees were of the highest quality.

A booth was set up by the Aerosystems Department during the 3-day SAFE Symposium held in Las Vegas. It features still photos of project work carried out by the personnel of Code 64, as well as a continuously running video tape describing the work.

Equipment in the display booth was operated by Ms. Johnnie Maschhoff of the Aerospace Department's Documentation Section.





MORE FIREPOWER — The penetrator (small, pointed object) of the Mk-149 Phalanx 20mm armor-piercing round, is enclosed by plastic sabots or petals that break free when the business end of this round leaves the muzzle of the gun. The 12-in. ruler in foreground provides some idea of the size of the three inert rounds that are standing upright in the background. Tests were carried out to determine if the plastic sabots could cause damage if this armor-piercing round was fired from Marine AH-1J and AH-1T Cobra attack helicopters.

— Photo by PHAN Rebecca Carpenter

Ammo for helicopter tested . . .

(Continued from Page 1)

guided Anti-armor Weapon (TOW). The velocities of these fragments were set to represent what these components would realistically endure if they encountered such fragments during forward flight.

Test results indicated that there was no danger to the rotor blades or the canopy. However, the plastic foam covering over the front of the TOW missile tubes was damaged. It was also determined that the main rotor blades could be damaged by high speed, out-going sabot fragments if the gun was fired to the side while elevated to its maximum position.

In Phase II ground tests, sabots were ingested into the inlet of an AH-1T helicopter to determine if the engine by-pass and particle separator would protect the engine. The engine was operated at varying speeds from flight idle to full power. In all cases the fragments were either expelled through the by-pass or held in the separator.

Based on the results of the ground tests, it was decided to conduct flight tests in which the MK-149 20mm Phalanx ammunition, with a tungsten penetrator, would be fired from an AH-1T helicopter flying at various speeds. A helicopter and crew from Medium Attack Helicopter Squadron 169 at Camp Pendleton was brought to the Center for the flight tests. The target was an M-113 armored personnel carrier.

Although the helicopter encountered sabot fragments on their downward flight path, there was no damage to the helicopter.

Further, the ammunition was able to easily penetrate the target's armor.

Two recommendations were made for modifying the gun to widen the field of fire for Marine Corps attack helicopter 20mm guns using the MK-149 Phalanx APDS ammunition. These have been included in an NWC Technical Memorandum, as well as in the report submitted by Bates to NAVAIR, and consist of either limiting the elevation stops on the gun or attaching a simple sabot deflector to the muzzle of the gun.

The tests were funded by the Armament Division of the Naval Air Systems Command (AIR-511), and project coordination was provided by Lt. Col. William S. Smith, USMC, former Marine Corps Liaison Officer assigned to NWC.

Major Hal Reeves, USMC, S/Sgt Alexej Borissenko, USMC, both of the Air Test and Evaluation Squadron Five, assisted in planning and conducting the helicopter engine ingestion tests, while Capt. J. J. Cooney, USMC, and 1st Lt. C. M. Gangas, USMC, were the pilots from Medium Attack Squadron 169 involved in the flight tests.

Russ Van Devender, a general engineer in the Fuze and Sensors Department's Weapons Survivability Lab, planned and conducted the ballistic damage tests and target damage assessment and effectiveness analysis was handled by Rex Randolph, a physicist in the Weapons Department's Weapons Effectiveness Branch.

NRMC branch clinic selects Sailor, Civilian of Quarter

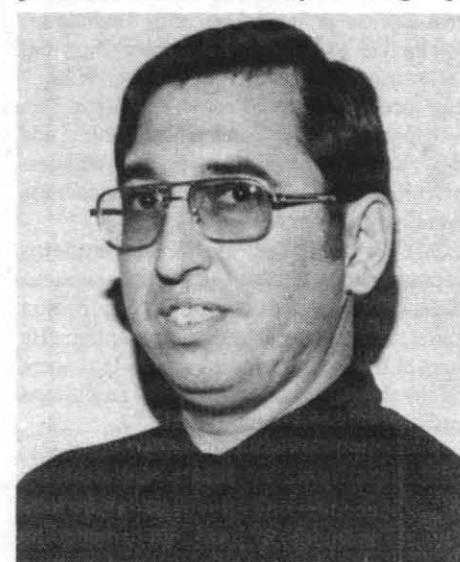
An early Christmas present of a letter of commendation was received on Dec. 16 by two local medical personnel when HM1 Eugene M. Cordoba and Young-Ja Lee were named, respectively, Sailor and Civilian of the Quarter by the Naval Regional Center branch clinic at China Lake.

At an all-hands ceremony held in the lobby of the clinic building, LCdr. E. J. Spita, Commanding Officer (acting) of the clinic, presented each of them with the letter of commendation. They will have their names engraved on a plaque in the lobby of the clinic building, and their pictures will be displayed there. Each will also be assigned a special parking place for the next three months, and HM1 Cordoba will also get a special evaluation and a 96-hour liberty for his selection.

The parking space assigned to HM1 Cordoba is going to be largely unused, however, because he will shortly be transferring to San Diego to attend Advanced Hospital Corps School. From there he hopes to be able to leave for Navy Physician's Assistant training at Ft. Smith, Virginia, so that he can practice in the Navy the skill that he learned at the University of Utah during the four years that he was out of the Navy before he reenlisted in Jan. 1981.

The letter of commendation received by

Petty Officer Cordoba notes that he has been an invaluable asset to the clinic by teaching CPR and first aid classes to clinic personnel as well as to many civilian groups



HM1 Eugene Cordoba

on base, and that he has performed his demanding duties in an outstanding and highly professional manner.

It also mentions his involvement in many community activities such as the PTA, Marriage Encounter Group and the Boy

'quakes remind residents of need to prepare for temblors

A series of gentle (and not-so-gentle) shakings of the earth during the holiday season and this week are reminding local residents that it's always wise for Californians to be prepared for earthquakes.

The California Office of Emergency Services (OES) advised in a "letter of unusual circumstances" last Oct. 14 that geologists say there is a greater possibility of a quake of M6 or over occurring locally now than was the case two years ago, although the OES did not predict that such a quake would take place.

As a routine precaution, all households in earthquake-prone areas should have at least a week's food supply of canned or dried provisions on hand (including food for family pets), and a minimum of ten gallons of water stored per person. Flashlights with extra batteries, a battery-powered radio, and wrenches to turn off utilities are also essential.

Since most cupboard door latches are not strong enough to hold doors shut in a quake, any way to keep these secured at all times will help to keep dishes and other items in the cupboard where they are less apt to break rather than having them fall out onto the floor. The handle of a wooden spoon run through the handles of kitchen shelf doors, for instance, will hold cabinet doors secure and yet make them easy to open.

Heavy items are best stored on low shelves, and shelving should be attached to

walls with screws or bolts to keep it from toppling in a quake. Also, any heavy pictures or mirrors over beds should be moved, and windows by a bed should either be covered with heavy drapes or should be taped so that glass shards won't fall on the bed if the window breaks during a nighttime quake.

A public meeting about earthquake and disaster preparedness is going to be held on Wednesday, Jan. 19, at 7:30 p.m. at the Burroughs High School lecture center and all Center personnel are urged to attend.

Police reports . . .

The theft of 200 concrete blocks from the backyard of a residence at 1521 Essex Circle was reported on Sunday to China Lake police.

Estimated value of the concrete blocks, which were government property, was set at \$200.

BICYCLE STOLEN

The tenant at 2018 Coral Sea Circle called China Lake police on Sunday to report the theft of a single speed bicycle.

The bike, valued at \$75, was stolen from an unlocked garage.

TWO DUI ARRESTS MADE

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

New rent rates for civilian housing

Type	Shelter Rent	Utilities	Total
SOQ (4)	\$695.10	\$154.80	\$849.90
SSQ (3) Sage	435.60	175.20	610.80
SSQ (3) Saratoga	462.60	170.10	632.70
Sierra (4)	472.80	124.50	597.30
Coso (3)	448.20	114.30	562.50
Panamint (4)	429.30	126.60	555.90
Panamint (3)	410.10	113.10	523.20
JOQ (3) Rear Terrace	421.50	117.60	539.10
JOQ (3) Front Terrace	378.60	113.70	492.30
JOQ (3) Front Terrace 1 bath	378.60	113.70	492.30
JOQ (2) Rear Terrace	334.20	93.90	428.10
JOQ (2) Front Terrace	307.50	92.40	399.90
MOQ (3)	378.00	132.60	510.60
Hill Duplex (3)	339.90	101.10	441.00
Hill Duplex (2)	277.20	94.50	371.70
Wasp Circle (2)	221.60	134.40	356.00
Joshua (4)	385.50	116.40	501.90
Yucca (3)	372.30	108.60	480.90
Tamarisk (3)	353.10	104.70	457.80
Juniper (3)	353.10	100.50	453.60
Old Duplex (3)	294.00	111.60	405.60
Old Duplex (2) Dining Add.	281.40	94.80	376.20
Old Duplex (2)	245.40	91.80	337.20
Old Duplex (1)	168.00	64.80	232.80
Old Apartment (1)	171.00	45.60	216.60
Old Apartment (2)	194.70	76.20	270.90
*Motel Apartment (1) w/o	189.90	41.10	231.00
*Motel Apartment (1) w/o	158.40	36.60	195.00
*Motel Apartment (1) w	219.90	41.10	261.00
*Motel Apartment (1) w	188.40	36.60	225.00

*Yard Maintenance

Questionnaires on Demo Project are due by next Friday

During early December, 3,269 of the Center's civilian personnel received questionnaires about the Demonstration Project; these are due back to Code 08203 on or before next Friday so that they can be tallied.

This fourth annual questionnaire is the simplest to answer since responses are marked on a test-scoring sheet. Anyone who would like to add written comments is invited to do so in the space allowed for them on the scoring sheet.

While all responses to the questionnaire are confidential, anyone who would prefer not to answer the demographic questions about where on Center the responder is employed is asked to fill out and return the rest of the questionnaire anyway. The responses to this questionnaire contain data elements that are critical to the evaluation of the Demonstration Project.

Survey results will be released to all branches and above for open distribution, and copies will be on file at the Technical Library along with the results of the previous questionnaires.

Anyone who has any questions or comments about the survey is asked to telephone either Bob McKenzie, NWC ext. 2319, or Dr. Ed Alden, NWC ext. 2409.

Remember when . . .



Burroughs High School senior class photos looked like this more than 20 years ago when the portrait of this week's "Remember When..." personality was taken.

Even though she later married a Marine Corps sentry then stationed at China Lake, both she and her husband found that the local desert area was more to their liking than a mid-west suburb near Chicago, Ill., where they took up residence for about a year following their wedding in June 1963.

The couple moved back to the desert within a year following their marriage and has remained here ever since.

In high school, this week's "Remember When..." personality enjoyed athletic events, and was a baton twirler. She's still an avid sports fan — with professional football holding her principal interest as a spectator.

A long-time employee (since 1961) of the Weapons Planning Group, she began her Civil Service career here as a secretary for Dr. Ronald Henry in the Chemistry Lab.

If you haven't recognized this week's "Remember When..." column personality, turn to page 8.

Editor's note: Readers' contributions of old photos for the "Remember When..." column can be made by delivering them to the Public Affairs Office, Code 003, attention Beth Hoffermands, phone NWC ext. 3511. Please include a telephone number at work so that information to accompany the photo can be obtained.



VARIED LEGAL PRACTICE — LCdr. Mike Kelly, Staff Judge Advocate, says that only a lawyer still in school is apt to get exposed to a wider range of legal matters than those handled by his office on the Center.

— Photo by PHI Benita Tetrault

Widely varied case load handled by NWC's Staff Judge Advocate

Lawyers from throughout the community envy LCdr. Mike Kelly, NWC's Staff Judge Advocate, for the wide variety of cases that his office handles. And so might other Navy Staff Judge Advocates because the range of legal issues involving the Center is unique.

Since last May when LCdr. Kelly moved to NWC from San Diego and took over the position from Cdr. Perry Patterson, he's dealt with matters involving the Center's need for clean air, with groundwater, with the roundup of wild horses, with the Freedom of Information Act, and with other non-procurement legal matters such as land withdrawal. (Lt. Edward Torrence in his office has been handling geothermal issues, which also fall under Code 022.)

"In essence, I function for Command in the same way that a City Attorney functions for a city," says LCdr. Kelly. "I need to provide not only services and information required by NWC in all its activities, but also to provide these to the tenant and subordinate commands."

These services include dealing with personnel matters such as conflict of interest issues, standards of conduct, labor law, and adjudication authority for personnel claims up to \$1,000. (Any amount over that must be handled by the Long Beach office.)

While the Staff Judge Advocate no longer conducts traffic court on the base, the office still handles traffic court appeals for on-base offenses.

In addition to these functions, he is also the person that provides legal assistance services to all eligible military personnel, retired military personnel and to their dependents. Such assistance covers help with everything from immigration to help with credit matters or divorce.

Since both the service member and dependent are entitled to legal assistance,

Calif. law requires restraints for tiny tots riding in cars

A new California state law requires that all children under 4 years of age or weighing less than 40 pounds must be in approved child restraints (car seat, etc.) while riding in a car.

Such child restraints may be purchased from the Navy Exchange by military families. Civilian families who have any questions about what the standards for a child restraint are can get additional information by telephoning David Jester of the Safety and Security Department at NWC ext. 2315.

The law will be strictly enforced on the Center as well as in town to help cut the number of injuries and deaths suffered by small children.

LCdr. Kelly and Lt. Torrence might find that one of them will be providing legal assistance to the husband and the other to the wife in a divorce. This can be an advantage, however, if the couple can agree on property settlement and custody of children, because then all that is needed is for the couple to get help in filling out forms to file for divorce and information about how to file them, and no court hearing is required. Neither LCdr. Kelly nor Lt. Torrence can actually represent the military member or dependent in court.

In the purely military line, the Staff Judge Advocate also provides counsel to General Court Martial authority and supervisory authority in military justice matters.

All Staff Judge Advocates must be graduates of a law school and must have passed the bar examination in at least one state before they can be accepted in the Navy's legal system. LCdr. Kelly is unusual in that he had served as a line officer for four years before leaving the Navy and attending law school. He's a member of the state bar of Kentucky, and this permits him also to practice in a federal court.

"I asked to come to China Lake," says LCdr. Kelly, "for a number of reasons. I liked what I saw of the community when I came here from San Diego to research a case; I like the mix of civilian and military personnel; the mountains look like Albuquerque, my wife's home town, where we'll probably eventually retire; and I'm getting involved in a variety of law that most lawyers don't ever experience once they are out of law school."

Memorial scholarship fund for Leet to aid science students

Friends and co-workers of the late H. P. (Pete) Leet have established a scholarship fund in his memory. Scholarship recipients will be Burroughs High School seniors who are going into a scientific field.

Leet, who held a bachelor's degree in engineering physics from the University of Kansas, came to what was then the Naval Ordnance Test Station (now NWC) in 1955 as a Junior Professional employee in the Aviation Ordnance Department.

Like many long term China Lakers, he worked for a number of departments before he became Targeting Systems Consultant (Code 31505) in the Aircraft Weapons Integration Department in 1977, a position that he held until his untimely death over the Christmas holidays.

Leet's superb technical skills led to his being granted five patents or patent disclosures. He also was commended for his work on the direct fire simulator and participated in an information exchange program with the United Kingdom. He is

Work of revamping kitchens in some homes begin Mon.

Work will begin on Monday to revamp kitchens in the north duplex area as part of the Housing Division's continuing program to upgrade tenant housing on the Center. The kitchen remodeling will include installation of additional wall plugs, garbage disposals, and new flooring.

Improvements in the Capehart A housing, which have been underway for some time, have included replacement of countertops in the kitchens and installation of stainless steel sinks, new bifold closet doors, new flooring throughout (in a variety of colors rather than just one color of tile), and new doors for the showers. Capehart B housing improvements of a similar sort are slated to begin in February.

As part of an energy conservation project, incandescent lighting throughout tenant housing will be replaced with fluorescent lights, and water heaters will receive blankets to help insulate them.

A layer of foam to be sprayed on roofs in several different types of housing will serve a dual purpose: it will both provide additional insulation for the housing and will patch leaky roofs. (Bill Hatfield, head of the Housing Division, adds that these foam layers on the roofs will improve the appearance of the houses as well.)

Also scheduled is replacement of overhead wooden garage doors that will improve both the appearance and safety of tenant housing.

Owens Lake . . .

(Continued from Page 1)

Walter Stuen to get money allocated from the State Environmental Fund. (This fund results from the sale of license plates and is not affected by the general condition of the State Treasury.)

Another \$200,000 to \$300,000 would be adequate to expand the study into a pilot scale test program of snow-fencing, spraying, and planting to cover several square miles of the lake's more than 100-square-mile surface.

Other members of the Owens Dry Lake Task Force have suggested that the Los Angeles Department of Water and Power should provide funding for the continued and expanded program since Los Angeles is using the water that would otherwise have filled Owens Lake.

The Great Basin Unified Air Pollution Control District has recently denied permits to Los Angeles to continue to develop its geothermal leases until some alleviation of air pollution caused by water transfers can be achieved; possibly these permits could be granted in exchange for funding to continue the dust control studies.

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Anyone wishing to contribute to the scholarship fund should contact Len Haugen, Code 3942; Bob Campbell, Code 315; Roy Nichols, Code 31501; or can write a check payable to the H. P. Leet Memorial Scholarship Fund and send it directly to the NWC Credit Union.