

Big band sound to be featured tonight at summer dance

The Burroughs High School Band Boosters announced that Richard Torres, currently with Stan Kenton's band and formerly with Chicago, will be a featured soloist at the summer dance to be held tonight in Joshua Hall on the Desert Empire fairgrounds starting at 9 o'clock.

Torres, playing the lead tenor saxophone, will join in providing an evening of danceable music of the Big Band era of the '40s and '50s. Some selections especially appealing to young people will also be played.

Proceeds from the tickets sold for the evening's entertainment will go into a fund to be used for purchasing an electric piano for the Burroughs Stage Band.

Prominent local citizens lending their talent to the evening include Paul Riley, dean of student personnel services at Cerro Coso Community College, at the piano; Paul Burns, president of the Inyokern Chamber of Commerce, and formerly a member of the Bobby Darin band, playing guitar; Dwayne Evans on bass; and Burroughs math instructor Mike Garrett playing drums.

Saxophonists, besides Torres, include Bill Lutjens, a student at Cal State University, Fresno; Burroughs High School band director Don Wilkinson; and Burroughs student Tim Young, who is a member of the Stage Band.

Trombonists are Kenny Gould, a UCLA music major; Cal State Fullerton student Mike McLane; and Burroughs students Tom McLane and Matt Arr.

Trumpet players will be two students from the Cal State Fresno Jazz Band and local Burroughs students John Paek and Brian Gravelle.

Tickets for the evening are priced at \$2 each and may be purchased in advance from Music Man, Loewen's, Senn's Coiffures, the Daily Independent, and from Exchange Club members. They also will be on sale at the door prior to the dance this evening.

Comedy show slated by 'Duck's Breath Mystery Theatre'

A rousing start to the Cerro Coso Community College's fall season of community services events is scheduled next Wednesday evening at 7:30 in the college lecture hall.

On stage will be the "Duck's Breath Mystery Theatre" in a wacky presentation that includes the giving of beak-to-beak resuscitation to a duck.

The performers, a group of five young men (all with master's degrees in theater from the University of Iowa), have been appearing for the past year in San Francisco after getting their start in Iowa City, Iowa. They are Bill Allard, Jim Turner, Merle Kessler, Leon Martell and Dan Coffey.

Past performances include their appearance as an opening act for the Leo Sayer rock music group at the Boarding Housing in San Francisco, as well as performances before standing-room-only crowds at Stanford University's Coffeehouse and at the University of California's Live Oak Theater.

In addition, the comedians who make up the "Duck's Breath Mystery Theatre" have signed a contract to appear in the first national revival of a 90-min. "Laugh-in" special to be aired on NBC television this fall.

Their performance here next Wednesday night will include take-offs on art appreciation classes at the college level, and an irreverent, double-talk version of portions of Hamlet.

Tickets to the "Duck's Breath Mystery Theatre" presentation can be obtained at the college business office or at the Gift Mart in Ridgecrest. The admission price is \$2 for the general public and \$1 for holders of Cerro Coso College student body cards.



TENSE CONFRONTATION— Russ Stedman (at left) as Mario, tells LeRoy Doig, portraying Sydney Wyner, to mind his own business in a scene from the China Lake Players' "Tell Me That You Love Me Junie Moon." The play's final performances are slated tonight and tomorrow night at 8:15 at the Players' Hut, 405 McIntire St. Due to the limited seating available, reservations are requested by calling Rosalie Barber at 375-9470. Tickets are priced at \$2.50 for adults and \$1.50 for all others.

Folk music festival planned tonight at Cerro Coso College

Six continuous hours of folk music under the full August moon is slated to begin at 7 o'clock tomorrow night on the upper lawn of Cerro Coso Community College.

Called Folk Festival I, the show will feature five acts, ranging from bluegrass to contemporary and traditional folk music. Headliners will be Lisa MacGregor and Steve Gillette, both well known in the folk music world.

Miss MacGregor is familiar to the regulars at the college coffeehouse, the Mind Shaft, having returned there many times to enthusiastic audiences. She is a self-taught guitarist and composer, whose song, "Short Cut," has been released by Tanya Tucker. A number of recording firms are bidding for Miss MacGregor's contract.

Gillette is a songwriter whose talents have provided music for Gordon Lightfoot, The Nitty Gritty Dirt Band and Linda Ronstadt.



TO PERFORM AT CERRO COSO— Steve Gillette, a Los Angeles-based folksinger, along with college coffeehouse regular Lisa MacGregor and other local and imported acts, will perform on the upper lawn of Cerro Coso Community College beginning at 7 p.m. on Saturday. Tickets for this show of six acts of contemporary and traditional folk music, priced at \$3 for the general public and \$2 for youths 18 years and under and senior citizens over 65, will be on sale at the door and are available now from members of the IWV Youth Council. The folk music festival is co-sponsored by the council and the Associated Students of Cerro Coso.

His song, "Back on the Street Again," recorded by The Sunshine Company, was on the top 10 nationally for weeks.

Rounding out the entertainment will be Ben Huff & Co., a local bluegrass group; W. B. Reid, a fine young blues singer; and Hunt & Peck, a "two-man trio" whose proficiency on the guitar, fiddle and mandolin is exceeded only by the quality of the jokes they mix in with their playing.

The event is being sponsored jointly by the Indian Wells Valley Youth Council and the Associated Students of Cerro Coso College. Profits will go toward establishment of bike paths in the local area.

Tickets, which will be on sale at the gate, are priced at \$3 for the general public and \$2 for persons 18 years of age and under, and 65 and over.

Ray Charles show duacs selling throughout area

Ray Charles, whose hit songs such as "Georgia on My Mind," "Ruby" and "Hit the Road Jack" have earned him the title of "the only genius in our business" by Frank Sinatra, will appear in concert at the Center theater for two performances on Thursday, Sept. 22.

Times of the shows, featuring both Charles and his talented group of 30 entertainers, will be 6:30 and 9 p.m. There will be no reserved seats for either performance, and tickets, priced at \$4 per seat, are on sale here at the Community Center, Commissioned Officers' Mess, Chief Petty Officers' Club, The Shuttle, bowling alley, golf course, and the Special Services Division office in Bennington Plaza.

In Ridgecrest tickets are available at the Gift Mart, Baker Brothers' Furniture Store and Deboni's Ice Cream Parlor, and in Inyokern, at the Inyokern Market.

Local drama gp. slates tryouts for next play

The China Lake Players have scheduled tryouts for their next play on Monday and Tuesday, starting at 7:30 p.m., at the Players' Hut, 415 McIntire St., China Lake. The play, entitled "The Impossible Years," will have a cast of seven adults, ages 23 to 50, and eight teenagers from 13 to 19 years of age.

A one-time Broadway comedy hit, the play is slated for presentation during the latter part of October.

Additional information can be obtained by contacting the play's director, Len Finney, phone 446-5251, after working hours.

SHOWBOAT

MOVIE RATINGS
The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.

- (G) - ALL AGES ADMITTED
General Audiences
 - (PG) - ALL AGES ADMITTED
Parental Guidance Suggested
 - (R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian
 - CS - Cinemascope
 - STD - Standard Movie Screen
 - Regular starting time—7:30 p.m.
- Program subject to change without notice.
-For further information call NWC ext. 2239.

FRI. 26 AUGUST

"MR. BILLION" (93 Min.)
Terrence Hill, Valerie Perrine, Jackie Gleason (Comedy) This comic-chase caper involves scoundrels who try to swindle an Italian auto mechanic out of a billion dollar inheritance. Guido Falcone (Hill) has 20 days to claim the legacy left him by an uncle. Taking pains to see that he doesn't collect is the departed uncle's business associate (Gleason), who sends a tempting female (Perrine) to dope him and thugs to kidnap him. Released March 1977 (R)

SAT. 27 AUGUST

Free Matinee
"DUEL AT APACHE WELLS" and
"OPIE'S HOGO FRIENDS"
1:30 p.m.

"BARRY LYNDON" (185 Min.)
Ryan O'Neal, Marisa Berenson (Historical Drama) Based on a novel by William Thackeray, this film is about an 18th century Irish rogue (O'Neal). With equal measures of luck and larceny, he rises from rural roughness to gentlemanly eminence. However, he ends in disgrace and destitution due to misfortune and greed. At first, O'Neal is a decent young lad in love with his cousin (Gay Hamilton). He duels with her fiancé, wins, and leaves home to escape arrest. (PG)

MON. 29 AUGUST

"AUDREY ROSE" (113 Min.)
Marcia Mason, Anthony Hopkins (Horror-Drama) In Pennsylvania 1965, five-year-old Audrey Rose is burned alive with her mother in an auto crash. In New York 1976, a young mother (Mason) notices a stranger lurking near her daughter's school. The stranger (Hopkins) tells Mason and her husband that he believes their daughter, Susan, is the reincarnation of his own daughter, Audrey Rose. Released April 1977 (PG)

WED. 31 AUGUST

Matinee
"TREASURE ISLAND"
1:30 p.m.

"SLAP SHOT" (123 Min.)
Paul Newman, Strother Martin (Comedy-Drama) The Charlestown Chiefs, a third-rate ice hockey team, are experiencing some morale problems. The player-coach (Newman) overhears the manager (Martin) discussing plans to leave the team because of its losing streak. Newman gets his team to provoke their opponents to the point of frustration. As a result, they lose their tempers, start fights and thus help the Chiefs to win. Released February 1977 (R)

FRI. 2 SEPTEMBER

"SCOTT JOPLIN"
Billy Dee Williams, Clifton Davis (Drama) This is the story of a young aspiring piano player (Williams) who endeavors to rise as a composer despite a series of unfortunate incidents. One day, he and an old friend (Davis), a "master improviser," enter a "rag" contest with each performing Joplin's compositions and agreeing to share the prize. Joplin meets Art Carney, a music publisher, who helps him gain recognition, but there are only slight monetary gains. (PG)

SAT. 3 SEPTEMBER

Free Matinees
"FRONTIER INVESTIGATION" and
"CRIME FREE MAYBERRY"
1:30 p.m.

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1976 - No. 1041

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To: _____

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Naval Weapons Center
China Lake
California

August 26, 1977

Vol. XXXII, No. 33

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Patterson singled out as latest recipient of NWC Technical Director Award

Presentation of the NWC Technical Director's Award in recognition of outstanding technical accomplishment highlighted Monday morning's Commander's meeting held in the Management Center at Michelson Laboratory.

Jack H. Patterson, the Shrike Operational Support Manager in the Engineering Department's Fleet Engineering Division, was the recipient of this special form of a Superior Achievement Award, which was presented by R. M. Hillyer, acting Technical Director.

The award, which consists of an engraved paperweight (a replica of which had not yet arrived here on Monday morning), a letter of commendation and a \$200 stipend, was presented to Patterson in recognition of his success in achieving a Shrike missile pilot

training program for the Fleet.

This training program, it was noted by Hillyer as he made the presentation, is providing the capability of maintaining Fleet readiness, in a peace time situation, without the expenditure of limited missile assets. It will tend to serve as a model for all new programs in the future, the acting Technical Director added.

In the letter of nomination for the Technical Director Award, which was submitted by Dr. G. L. Leonard, head of the Engineering Department, Patterson was commended for conceiving the idea of providing Fleet pilots with a Shrike training capability which utilizes the Air Combat Maneuvering Range (ACMR).

Feasibility Clearly Demonstrated

Dr. Leonard wrote, in part, as follows: "The feasibility of this program has been clearly demonstrated through both software changes in the display system, using prototype, hardware, and flight tests on various ranges. Throughout the program, effective use of existing hardware has greatly reduced the cost of the flight program."

The ACMR training capability has the advantage of providing relatively inexpensive multiple firing-pass flights with real time scoring and immediate feedback to the pilot after each pass. Estimates of training costs show a reduction from \$12,000 per pilot range period (using missile live firing techniques) to \$200 per pilot for each range test flight using the ACMR.

For the purpose of cost comparison, this means that 50 squadrons of 18 pilots each can be well trained for an estimated (Continued on Page 3)

Search, rescue team aids man stricken by heart attack

Responding to a call for assistance, which was received from the Kern County Deputy Sheriff's Office in Ridgecrest, members of the Indian Wells Valley Search and Rescue Team last Friday night went to the aid of a man who suffered a possible heart attack.

The incident occurred nearly a mile beyond the roadhead at the furthest reaches (by vehicle) of Indian Wells Canyon. (Continued on Page 4)



OUTSTANDING EFFORT RECOGNIZED— In recognition of outstanding technical accomplishment, Jack H. Patterson (at left), was the recipient of an NWC Technical Director's Award. The presentation, during Monday morning's Commander's meeting, was made by R. M. Hillyer, acting Technical Director. Patterson was commended for his efforts as the Shrike Operational Support Manager. —Photo by PH3 B. J. Beckman

Adverse weather fails to hamper ESKIMO V, safety test of explosives storage magazines

Despite adverse weather conditions, ESKIMO V, another in a series of tests aimed at determining the safe separation distance and proper construction specifications for earth-covered magazines (called igloos) that are used for storage of ammunition or explosives was conducted nearly on schedule and with successful results.

Heavy rain from tropical storm Doreen fell prior to the previously-planned mid-day detonation on Aug. 17 of 75,000 lb. of TNT demolition blocks that had been stacked 155

ft. away from the two types of magazines being tested.

The unseasonably heavy precipitation and low cloud cover over the Randsburg Wash test site twice postponed the takeoff of a helicopter that was used to obtain aerial photo coverage of ESKIMO V.

When the cloud cover did lift for a short time, however, the helicopter (piloted by LCDr. Dale Haan) was ready to go. In the co-pilot's seat was W. R. Hattabaugh, NWC's acting head of the Test and Evaluation Directorate, while the

photographers were Bill Beasley, John Dunker and Mark Pahuta.

The aerial photo work—carried out 5,000 ft. above ground level and at a distance of 25,000 ft. from the blast site—augmented ground photo coverage from a number of unmanned photo stations.

Objectives Satisfactorily Met

The objectives of ESKIMO V, namely to justify eliminating the use of concrete thrust beams (a costly structural feature) from the design of the oval steel-arch igloo, and to confirm the safety of placing such igloos in closer proximity to one another than had previously been tried, were satisfactorily met, according to Fred Weals, head of the Test and Evaluation Directorate's Ground Projects Branch.

There was very little damage to the oval steel-arch magazine, which had been modified by the removal of reinforced concrete thrust beams from its exterior, even though inside cameras revealed significant motion of the walls as a result of the blast.

A reinforced concrete-arch magazine also withstood the force of the ESKIMO V blast very well, Weals reported, adding that there was no significant damage to be found in (Continued on Page 5)

Report released on current status of RIF

The identification of positions to be eliminated through Reduction In Force procedures has been completed. Employees occupying these positions have been informed by their supervisors as to why their position was abolished.

Positions have been identified in the trades and labor, supervisory, administrative, technical, professional and semi-professional occupational groups. Of the positions identified, about 60 per cent are General Schedule and 40 per cent in the wage grade. About 25 per cent of the positions are supervisory.

Because of the broad scope of positions identified, all personnel actions that impact on the RIF are suspended and will remain so until such time as the RIF is completed.

Members of the Personnel Department are currently determining competing employees' retention rights. An employee's right to assignment to another position held by someone is determined by qualifications, tenure group, and length of service. All employees affected will be personally notified in writing of their status on or about Sept. 15. Personnel changes will not be effective earlier than 60 days from receiving a notice. (Continued on Page 5)



ESKIMO V TEST EXPLOSIVES DETONATED— Approximately five miles from the ESKIMO V blast site, observers of the test can see a mushroom-shaped cloud rising in the distance moments after 75,000 lb. of TNT demolition blocks were detonated. This photo was taken from the northwest camera station at Echo Range. —Photo by Ron Allen

Because of the rugged terrain that had to be covered, it took nearly an hour to do this, Bob Wilhelm, second-in-command of the (Continued on Page 3)

9 NWC employees get master's degrees from USC

Nine Naval Weapons Center employees are back at China Lake after completing residence requirements at the University of Southern California in order to become eligible for graduate degrees in engineering. Six completed their requirements in the fall semester and the remaining three this past spring.

Those who acquired master's degrees in mechanical engineering were Scott O'Neill and Thomas W. Marshall. Lawrence E. Rafter, Arnold E. Doty, Vern Anderson, W. F. Arnold, Philip Bowen, Gerald E. Powell, and Hon Tze (Henry) Lai all received master's degrees in electrical engineering.

Course work for these degrees was completed both at NWC under the extension program and on the Los Angeles campus of USC.

Rafter, who is in the guidance and navigation systems branch of the Systems Development Department, is a graduate of the University of New Mexico. He began his graduate work as soon as he arrived at China Lake as an NWC employee in 1975.

Scott, a mechanical engineer in the solid propulsion branch of the Ordnance Systems Department, was graduated from Seattle University in 1972, at which time he began his employment at NWC as a junior professional.

W. F. (Bo) Arnold III is the Shrike Bias Project engineer. He is in the systems analysis branch of the Electronic Warfare Department. Arnold, the holder of both B.S. and M.S. degrees from the University of California at Davis, has been a Center employee for five years. While at Davis he was a research assistant.

Doty, an electronics engineer in the Land Threat Evaluation/Development Branch of the Electronic Warfare Department, has been at the Center for nearly six years since he completed his studies for a B.S.E.E. degree from the University of Washington in Seattle. Prior to enrolling at the university, he served in the Army for three years — being assigned to duty as bench technician on airborne radar systems.

An electronics engineer in the Electronics Branch of the Weapons Department, Anderson received a B.S.E.E. degree at Montana State University in June 1964. He has a total of ten years' service at NWC, beginning in 1964. His employment at China Lake was interrupted by a three year stint at Boulder, Colo., from 1969 to 1972.

Bowen, an electronics engineer in the



Vern Anderson W. F. (Bo) Arnold III Philip Bowen



Arnold E. Doty Hon Tze (Henry) Lai Thomas W. Marshall

electronic systems branch of the Weapons Department, specializes in control engineering. He is a 1973 graduate of California State University at Chico, and has been employed at the Center for four years. He was a summer employee during 1972.

Powell is an electronics engineer in the systems electronics branch of the Engineering Department. He has been at China Lake for three years after receiving his B.S.E.E. degree at the University of Utah. His prior work experience includes putting himself through college by working as a carpenter.

A member of the Control Design Branch of the Engineering Department, Marshall is the project engineer for the Shrike Control Section. He received his basic degree in mechanical engineering from Northrop Institute of Technology in 1973 before coming to NWC.



Scott O'Neill Gerald E. Powell Lawrence E. Rafter

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake, California

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DEADLINES
Tuesday, 4:30 p.m.
Wednesday, 11:30 a.m.
The Rocketeer receives Armed Forces Press Service material. All are of official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NPP-R P-35, revised January 1974. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense.
Phones 3354, 3355, 2347



FEDERAL SERVICE AWARD — Fire Chief W. R. Knight (at left), of the Fire Division, Safety and Security Department, receives a 25-year Federal service pin from NWC Commander, Capt. F. H. M. Kinley. Chief Knight, who has been on the Center for three years, spent 18 years in the Fire Department at NAS Miramar after four years of service in the Air Force.

Panel discussion set on final session in management series

The final lecture in a summer series intended to explore the uniqueness of the research and development community, and to expose managers to various aspects of managing in an R&D environment, is scheduled next Wednesday, Aug. 31, from 9 to 11 a.m. in Conference Rm. D at Michelson Laboratory.

The presentation will be a panel discussion entitled "Assuming a Management Role in an R&D Organization." Moderator of the panel will be Ed Alden, an operations research analyst in the Office of Finance and Management's Plans and Analysis Branch.

All interested persons may attend and can make arrangements to do so by calling the Training Center, NWC ext. 2359, to reserve a seat.

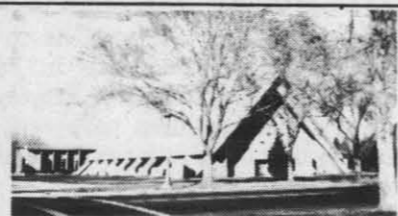
Participants in the panel discussion will be Dr. Marguerite Rogers, acting head of the Laboratory Directorate; Dr. E. B. Royce, head of the Research Department; G. R. Schiefer, temporary head of the Electronic Warfare Department; D. N. Livingston, associate head of the Weapons Department; Leroy Marquardt, associate head of Code 35, and Curtis Bryan and Paul Homer, heads of the Weapons Development and Weapons Synthesis Divisions in Code 39, respectively.

More effective RBOC system will protect larger Navy vessels

A new ship-launched missile decoy system, jointly developed by the Naval Surface Weapons Center, White Oak, Md., and the Naval Research Laboratory, Washington, D.C., soon will be installed aboard Navy ships.

The system, called super rapid-bloom offboard chaff (Super RBOC), is a larger, more effective version of the RBOC system currently in use by the Navy and extends decoy capability to larger ships.

Super RBOC consists of two or four six-round launchers, depending on the size of the ship, which dispense a cloud of metallic-coated fiber chaff presenting a false target to radar-guided enemy missiles.



DIVINE SERVICES

PROTESTANT	
Sunday Worship Service	1015
Sunday School — All Ages	0900
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	
Saturday 1700 fulfills Sunday obligation	
Sunday 0700 0830 1130	
Nursery, Chapel Annex 1	0815-1245
Daily except Saturday, 1135. Blessed Sacrament Chapel	
CONFESSIONS	
Daily	1115 to 1130
Saturday	1615 to 1645
Sunday	0800 to 0825
RELIGIOUS EDUCATION CLASSES	
Sunday Pre-School thru 6th grades	1015
Wednesday Kindergarten thru sixth	1530
Sunday seventh & eighth (Junior High)	1900
Above classes are held in the Chapel Annexes across from the former Center Restaurant.	
Sunday evening	Ninth thru 12th grades
As announced "In Home" Discussion Groups Youth Rallies	
Contact Chaplain's Office for specifics.	
JEWISH SERVICES	
EAST WING—ALL FAITH CHAPEL	
Sabbath Services every Friday	1930
UNITARIANS	
CHAPEL ANNEX 95	
Sunday Services—(Sept.-May)	1930

Special services for fishermen offered by Fish, Game Dept.

The Department of Fish and Game is making every effort to provide prompt, up-to-date information on fishing opportunities throughout the state.

The latest wrinkle in this program of special services for fishermen concerned about conditions during this extra-dry year is a tape-recorded message from a Sacramento telephone number.

The taped message, which is available by dialing (916) 452-3564, includes a listing of catchable trout plants for the week, open waters and water and fishing conditions in the 17-county area of DFG Region 2. The message is retaped every Monday morning.

In addition to the taped message, the DFG's regional office on the campus of Sacramento State University can be called for additional information by dialing (916) 445-0900.

For the first time in Region 1, with headquarters in Redding, announcements of fish plants are being made in advance as a part of the drought information service. The number to call is (916) 246-6273.

Lists are maintained of waters no longer fishable, waters about to be fished out, exceptionally productive waters and access conditions.

The DFG regional office with responsibility for the San Joaquin Valley and the central and southern Sierra is Region 4 in Fresno. Callers to (209) 222-3761 can receive information on the current status of waters and access, including that for major reservoirs.

Most callers to this office are interested in the high country lakes, where conditions have not changed appreciably.

For southern California and Inyo and Mono Counties, the information number is (213) 590-5177. The DFG's Region 5 office in Long Beach provides information on trout plants and answers questions about the prospects for fishing.

In addition, local game wardens now receive weekly recreation reports from the state's Drought Information Center and are prepared to answer general questions about fishing conditions statewide.

Doug's Corner . . .

(Continued from Page 6)
The league is for all interested bowlers between the ages of 8 and 21. Registration fee is \$1.25 per person. League play will begin Sept. 10.

Intramural Soccer
Players are being sought now for an Intramural Soccer League which will start competition in mid-September.

Experienced players will divide themselves evenly into four or more teams, each of which will then be filled out with adults (of high school age and over) who want to learn to play the game. There will be one game and one practice session per week.

Interested persons should phone the Center gymnasium at NWC ext. 2334 or contact Karl Kauffman by calling NWC ext. 3665.

Women's Figure Control

An ongoing physical fitness class for women is being held at the Center gymnasium every Thursday morning from 9 to 10 o'clock.

Cost of each session, under the instruction of Kelly Moulton, is 50 cents.

MDISL tourney . . .

(Continued from Page 6)

Donaldson and Sizemore each singled with one out, but the last two China Lakers to come up to bat popped out. That was the ball game, 7-5 in favor of March AFB.

Throughout the tournament, Stevenson played errorless ball and made several sparkling defensive plays. The China Lake nine was coached by Ernie Paiz, and his wife, Anita, served as the team's scorekeeper.

The final two MDISL events of the year will be golf, to be held at Norton AFB Sept. 23 through 25, and the lifetime sports carnival, slated Oct. 21 to 23 at March AFB.

Employee in the Spotlight



Gale Poppen

which you're best suited."

For four years, Gale worked in the Personnel Department. He later transferred to the Office of Finance and Management, and, in 1968, was promoted to head what was then called the Reports and Analysis branch.

"It's frustrating to be part of a growing bureaucracy and to have frankness be a liability," he says. However, his current supervisor, Dr. R. E. Kistler, head of Code 08, encourages frankness. Gale feels that this encouragement enhances communication between the two men.

In recognition of his working capabilities, Gale has received four awards in the past ten years. In addition to a sustained superior performance award, he received three quality step increases along with two outstanding awards since 1967.

By Bev Lough
"What keeps my job interesting," says Gale Poppen, head of the Budget Division in Code 08, "is all the changes that happen in finance; it's also one of the frustrations. There really isn't one answer," he adds.

In addition to duties as division head, Gale also serves as budget officer working with the comptroller, developing operational budget policies and procedures, and interpreting rules and regulations for the Naval Weapons Center.

"Just being a people boss" is the way Gale describes his role in Code 08. "It's satisfying to have recruited young analysts and see them grow and get better than me in budget analysis."

His growing process began in Carthage, S. D., where he was graduated from high school in 1950. Two years later he enlisted in the Navy and attended boot camp and Class A yeomen's school in San Diego. After spending nearly three years in the Supply Center at Pearl Harbor, he was then transferred back to San Diego to work in the District Intelligence Office (DIO) and received a promotion to yeoman third class.

In this last assignment, Gale was given the job of photographer for the DIO. "I didn't know the first thing about photography," he noted.

Enrolls in College

In the fall of 1956, he enrolled at San Diego State College shortly after getting married. He attributes his B. S. degree in business management to his wife, Carole. "She's the one who put me through college," he stated.

Gale spent his first six months at NWC in the Management Intern Program — working briefly in various administrative and technical areas. The purpose of the program is "to try and figure out where you're coming from and the type of work for

Washington area liaison office provides varied services

A home away from home is provided to Naval Weapons Center travelers to the Washington, D.C., area by the Liaison Office located in the Jefferson Plaza building complex in Arlington, Va.

That the Liaison Office represents the Center is evident from the brochures, general information about NWC, and limited files of NWC technical information about programs as well as copies of the current technical events memorandum that are available.

While desk space, classified material storage, a copying machine, typing services, presentations equipment loans (slide projector, screen, etc.), directories of government offices, and other reference material are also available to local

travelers on official travel to the Washington area, functions of the Liaison Office encompass many additional services.

These center on the capabilities and the legendary helpfulness of Isabel McLaughlin, who has been administrative assistant in the office since 1959. "I spend about three-fourths of my time on the telephone," says Mrs. McLaughlin, and this is readily apparent because she provides mailing and message referrals, keeps track of individual clearances established in the Washington area, and makes appointments and conference room reservations.

Mrs. McLaughlin also provides DoD bus passes and information and makes car and airline reservations in addition to providing

information on local restaurants and tours available to travelers and their families. "Helping with hotel reservations is another big part of what I do," says Mrs. McLaughlin. "Often if a traveler has called a hotel directly and been told that it's full, I can still find a place for him because there are so many NWC personnel coming to the Washington area that the hotel managers get to know us and can arrange something that they wouldn't normally for an individual they didn't know."

Part of her work includes helping with passports needed for official travel — and getting necessary visas in time for use. While normally overseas official travel is arranged well in advance, occasional emergencies require that NWC personnel have to get either passports or visas in a hurry.

"It's fun coming to work every day," Mrs. McLaughlin adds, "because there's always something new happening."

Regular contact between the Liaison Office and the Center is maintained not only by the telecopier but also by Autovon. Anyone needing the services of the Liaison Office can call between 7:30 a.m. and 4:30 p.m. (Washington time) weekdays. The Autovon number is 88-222-7085.

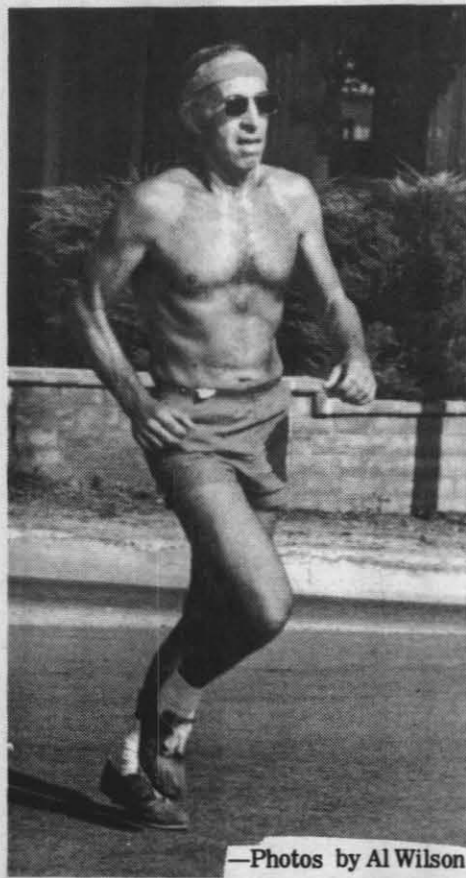
Registration open for square dance class for beginners
Plans have been announced by the Cactus Squares for again sponsoring a square dance class for beginners that will get under way on Wednesday, Sept. 7, at 7:30 p.m. at Pierce Elementary School.

Registration for the class, which is designed to acquaint all interested persons with the enjoyment and various routines of square dancing, will take place during the first three sessions on Sept. 7, 14 and 21. These introductory lessons will be followed by 27 consecutive Wednesday night classes that will be conducted by George Thornburg, caller for the Cactus Squares. Those interested can obtain additional information by calling John and Doris Haygood, class chairmen, at 446-4911.



INVENTORS CONGRATULATED — Burrell Hays (at left), head of the Ordnance Systems Department, congratulates (l.-r.) Vernon D. Burkland of Code 32703 and W. James Stone and Joseph A. Schmidt of Code 3273 for their patent award entitled "Drogue Chute Extraction." A drogue parachute deployment system for an ejection seat comprises a drogue parachute mounted in a bag on the seat, a rocket motor and a two line attached between the parachute and the motor. Upon firing of the motor, the bag rips and the parachute is deployed.

Over-Hill Track Club does well in race at Tehachapi



—Photos by Al Wilson

PLACES FIRST — In the men's division for runners 40 through 49 years of age, first place was garnered by Norm Neiberlein, an OTHTC member who is employed as a technical editor-writer by Comarco.

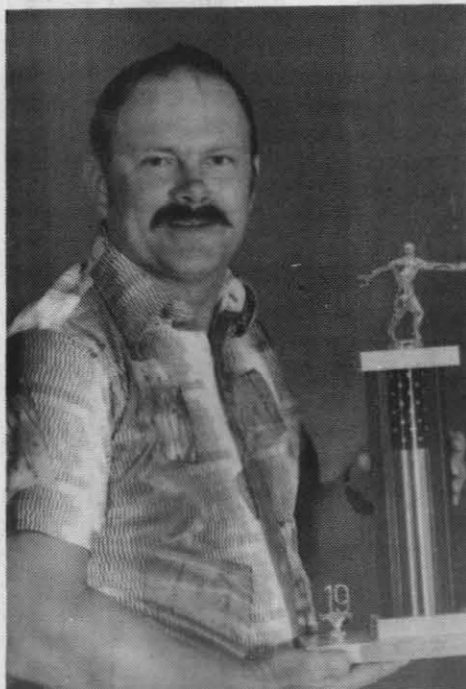
Horseshoe throwing team to vie in 11th Naval District event

A two-man team will represent the Naval Weapons Center at the 11th Naval District Horseshoe Throwing Championships, which are slated to be held Sept. 6 through 9 at North Island, San Diego.

Scheduled to make the journey are AMS1 Danny Carlson and AMH1 Charles Coppus, who will compete both individually and as a team.

Last summer, Carlson placed second in this same event, and first in the West Coast All Navy championship tournament. Two years ago, he won the first place singles and doubles competitions for the Western Pacific Admiral's and Captain's Cups, the Commander Naval Forces Philippines Cup and the All Western Pacific Cup.

The upcoming tourney will be Coppus' first non-local horseshoe throwing competition. At the Desert Empire Fairgrounds last July 4, he and Carlson teamed up to win the doubles championship.



HOPING FOR ANOTHER WIN — AMS1 Danny Carlson, who is shown holding the second place singles trophy which he won last year's 11th ND Horseshoe Throwing Championships, hopes to better his performance at the 1977 affair, which is slated for Sept. 6 through 9 at North Island, San Diego. He and a fellow China Laker, AMH1 Charles Coppus, will compete both individually and as a team.

Members of the Over-the-Hill Track Club turned in an impressive performance this past weekend during the annual Tehachapi Mountain Festival 10,000 meter run.

Nearly 100 distance runners from all parts of Southern California lined up for the start of the race, but when the event was over, 11 of the 17 local entrants had won either medals or plaques for their efforts in various divisions of the competition.

OTHTC members came through with their best showing in the men's division for runners 40 through 49 years of age. Norm Neiberlein was the winner in 39 min., 35 sec., while Scotty Broyles wasn't far off the pace. Clocked at 40:26, he placed second.

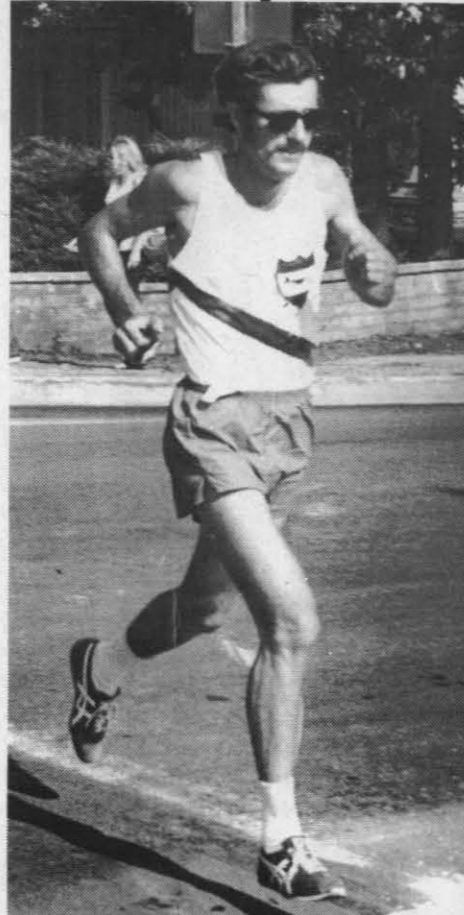
Fourth and fifth places in the 40 to 49-year-old division went to two other OTHTC members—John Anderson and Joe Kovar.

Frank Freyne, a physicist in the NWC Fuze Department's Systems Techniques Branch, won the men's 35 to 39-year-old division with the fastest time for an OTHTC member — 36 min., 51 sec. — while the second best time posted by a local runner was the 39:10 turned in by 15-year-old Mark Pohl, who placed third in the division for boys between 11 and 16 years of age.

Young Pohl, who will soon be entering his sophomore year at Burroughs High School, spent a part of his summer vacation at Ft. Sam Houston, near San Antonio, Tex., attending the U.S. Army's year-round pentathlon training center.

In the competition for men 50 years of age and over, Dick Wisdom, another OTHTC member, garnered a second place award.

In the 10,000 meter run divisions for girls and women, a first place plaque for girls under 10 years of age was won by Leslie Wilson, a Maturango Miller from Ridgecrest, while Julie Smith, a Ridgecrest gymnastics coach, placed third in the women's division and her husband, Robert, also was a third place winner in the men's 30



LEADS THE WAY — Frank Freyne, OTHTC member, was clocked at 36 min., 51 sec., as he won the 35 to 39-year-old division of the Tehachapi Mountain Festival's 10,000 meter run.

Other members of the Over-the-Hill Track Club who competed at Tehachapi were Bill Altop, Alex Shlanta, Peter Yu, Jim Dixon, Tom Kratzke and Steve Tanner.

The next event on the schedule for OTHTC members will be the group's own Rattlesnake Festival — a 10-mile team race that will take place on Saturday, Sept. 17.

MDISL slow pitch tourney held; weary locals make good showing

By suffering a narrow loss in the championship game, the Naval Weapons Center team placed a strong second in last weekend's Mojave Desert Inter-Service League slow pitch softball tournament, which was held at Nellis Air Force Base, Las Vegas, Nev.

The local softballers' tourney record of four wins and two losses earned NWC 13 points in the overall MDISL standings, while the winner of the three-day affair, March Air Force Base, picked up 15 points.

A glance at the current standings shows March AFB in first place with 76 points, Norton AFB is second with 68, NWC in third with 66 and Nellis AFB in fourth with 64. NWC's chances of winning the league crown were considerably dampened when its fast pitch softball team was declared ineligible to compete in the tournament held Aug. 12 to 14 at March AFB.

Going into that fast pitch event, NWC was in first place, and had a China Lake team competed and come in even as badly as last place, NWC would be in no worse than a tie for the lead at this moment.

Off to Slow Start

The locals started off none too well in the slow pitch tourney last Friday night as they dropped their first game, by a score of 16-6, to the softballers from the Marine Corps Base, 29 Palms. Twelve errors by the China Lakers gave the opposition 8 unearned runs, and, therefore, the game. Left fielder Gordie Irvin of NWC hit a solo homer in this otherwise sad affair, and his mates chimed in with nine more hits, but the Leathernecks had 19 hits of their own.

Relegated to the losers' bracket of this double elimination affair, the NWC team rallied and came through Saturday morning with a 16-5 victory over the Marine Corps Supply Center, Barstow. Although the locals socked no homers in this contest, they made only one error, and had 18 hits to the Marines' 11. Leading hitters for China Lake were short fielder Gary Ziegler and Irvin again, who were each 3-for-4.

That afternoon, the locals chalked up another victory when they knocked off Norton AFB by a score of 18-6. Pacing NWC's 26-hit attack were Kelvin McSwain's solo homer and 4-for-5 performances by first baseman Ken Rogers and right fielder Bill Sizemore.

Early Saturday night there was another game and another win for the China Lakers, as they came out on top of a 12-6 contest against George AFB. Irvin was 2-for-3 and Rogers, 3-for-3 as their NWC team racked up a total of 18 hits to 15 for the opposition.

Weary Crew Wins

It was a weary China Lake crew that took the field again still later that night against Nellis AFB, but the locals still had enough gas left to muscle out an 18-5 decision. At the top of NWC's 20-hit effort were McSwain's three-run homer and 3-for-4 work with the bat by Irvin, shortstop Norm Stevenson, catcher Andy Gilpin and Art Donaldson — the man who pitched every inning of every game for his team.

This victory propelled NWC into the championship game against March AFB late Sunday morning.

The locals drew first blood in the top of the leadoff inning by putting together singles by Sizemore, Rogers, Ziegler and third baseman Tim Cooksey to score 3 runs. The men from March made it 3-2, though, with two solo homers in the bottom of the second.

The China Lake nine then added a run to its total in the third frame when one man reached base on an error and Rogers and Ziegler singled. March retaliated in the last half of the third by getting a run on three singles.

In the top of the fifth, two errors by the opposition and a single by McSwain gave NWC another run, but a rally by the March AFB team produced four more runs in its half of the inning as the victors banged out five singles and a three-run homer.

Things were relatively quiet until the top of the seventh and final frame, when

(Continued on Page 7)



Doug's Corner

Bowling tournament scheduled Sept. 2 for local keglers

Entries are now being accepted for the Hall Memorial Lanes second annual Labor Day singles bowling tournament, which will be held here next Friday, Sept. 2.

Bowlers will compete in three games with handicap. The first shift will begin at 6 p.m., and the second, at 8:30 p.m.

Entries will close on Wednesday, and entry forms can be picked up at the bowling alley. The event is open to all local bowlers 18 years of age and over.

Flag Football Meeting

In an effort to encourage more players and teams to participate in this coming season's Intramural Flag Football League competition, another organizational meeting for all interested persons has been scheduled for 5 p.m. Monday at the Center gymnasium.

At the moment, four teams have been organized and it is hoped that two or three more will sign up in order to provide all participants with a good diversity of competition.

Youth Soccer Signups

Registration for the NWC Youth Soccer League has been extended through Sept. 15 at the Youth Center.

The league is open to boys and girls from the ages of 7 through the sixth grade. Tryouts will be held at Davidove Field on Sept. 14 and 15, and regular season competition will begin Sept. 19.

Winter Softball

All persons interested in competing in the upcoming Winter Softball League, or in getting a team together, should contact the gymnasium office by calling NWC ext. 2334.

Fall Tennis Program

A fall tennis program of instruction for beginning and intermediate tennis players will begin at the Center courts on Sept. 13 and continue for six weeks.

The course will be taught by Fred Hagist and include instruction in the fundamentals of ground strokes, the volley, serve, overhead and other basics.

Beginning and intermediate classes will be held on Tuesdays and Thursdays from 10 to 11 a.m. and from 5 to 6 p.m. Sessions for beginners only will be conducted from 5 to 6 p.m. on Wednesdays.

Jr. League Bowling

Signups for Junior League bowlers will be held at China Lake's Hall Memorial Lanes and at the Ridgecrest Bowl tomorrow and on Saturday, Sept. 3, between 10 a.m. and noon.

(Continued on Page 7)

Admiral's Cup golf event re-scheduled

Admiral's Cup golf competition has been re-scheduled and will now take place next Wednesday, starting at 1 p.m., at the China Lake course.

This competition, which was to have been held last Friday, was postponed due to the illness of one of the team organizers.

No handicaps will be used in this, the second event of the current cup race. Reflecting the results of the bowling competition held late last month, the Naval Weapons Center South is on top of the pack with 5 points while VX-5 is in second place with 3 points and NWC North trails with 1.



RETIRED NAVY OFFICER HONORED — Lcdr. Michael A. Rij, Jr., USN (Ret.), returned to the Naval Weapons Center last week to participate in a ceremony during which he received the Meritorious Service Medal. The presentation was made by Capt. Frederic H. M. Kinley, NWC Commander. Lcdr. Rij was singled out for this distinction in recognition of his outstanding performance as NWC's senior search and rescue pilot during more than three years of active duty here that preceded his retirement from the Navy this past June. —Photo by Ron Allen

NWC personnel play key role in Naval Warfare Advisory Gp. meeting

A prime role was played by NWC Fleet support personnel in a recent meeting of the Naval Warfare Advisory Group.

This group, a committee of top scientific and technical personnel from the Navy laboratories and other appropriate commands, including the Chief of Naval Operations, meets periodically with Fleet representatives in order to obtain first-hand information about Fleet problems to which the laboratories may offer solutions.

Hosted by the Fleet Combat Training Center, Pacific, the meeting was held recently in San Diego. Members attending from the Naval Weapons Center were Dr. Roger Fisher, head of the Fleet Support Office, and David Newport, of the Weapons Department's Warfare Analysis and Requirements Branch.

Others Make Presentations

Others in attendance from the Center who gave presentations were Cdr. Fred Spellman, military advisor to the Weapons Planning Group; Frank Buffum, who works in the Weapons Planning Group's Sea Control Studies; and Lcdr. William Dunn, Surface Weapons Officer for the Weapons Department.

Presentation material for the meeting, which was organized by NWC, included discussions of tactics and lessons learned on several recent Fleet exercises, a presentation of the Pacific Fleet's warfare

requirements, a discussion of future weapon needs as identified in NWC's recently concluded Tactical Air Capabilities/Options Study, and useful dialog on Fleet/laboratory interface in several problem areas.

Also in attendance were representatives from Commander, Third Fleet; Commander, Naval Air Forces, Pacific; Commander, Naval Surface Forces, Pacific; several functional air wings; and all of the Navy's laboratories.

The group's next meeting is scheduled on Sept. 9 at Naval Surface Weapons Center, Dahlgren, Va.

Rescue operation . . .

(Continued from Page 1)

rescue operation, reported.

From this first vehicle, Hunt was transferred a bit later to an ambulance (from Tri-County Ambulance Service) that was driven approximately a quarter of the way up the Indian Wells Canyon road, and transported by this ambulance to the Ridgecrest Community Hospital. Hunt was reported to be in stable condition on Monday at the local medical facility.

In addition to Wilhelm, other members of the IWV Search and Rescue team who took part in this operation were Sam Wyatt, the team captain, Jack Williams, Gary Ahr, Steve Freeman and Fritz Arts.

Plans progress for change of command ceremony Sept. 12

Plans are moving ahead for a change of command ceremony on Monday, Sept. 12, during which Rear Admiral William L. Harris, Jr., will relieve Capt. Frederic H. M. Kinley as Commander of the Naval Weapons Center. Capt. Kinley, who assumed his present duties following the departure of RAdm. R. G. Freeman III on May 26, will remain here as NWC Vice Commander.

The public is invited to attend the change of command ceremony, which is scheduled at the Administration Building circle and will begin at 8 a.m. on Sept. 12. Special events procedures will be in effect at the Center's main gate from 7:30 a.m. until noon on this date.

Limited seating will be available for those who wish to attend the ceremony.

AOAA Tate chosen as NWC's Sailor of Month

Airman Apprentice Leonard Tate, a native of Bonifay, Fla., has been named the Naval Weapons Center's Sailor of the Month for July.

AOAA Tate, assigned to the ordnance aircraft maintenance crew of the Aircraft Department's Weapons Branch, is involved in performing periodic aircraft inspections, bomb rack removal and installation, trouble shooting aircraft ordnance systems, maintaining aircraft gun systems, and assisting project engineers with installation and removal of weaponry placed aboard project aircraft.

"I like my supervisor; the work keeps me busy; and I like working on different kinds of aircraft," says July's Sailor of the Month. "It's a challenge," he added.

According to AOCS Jackie L. Kavanagh, "AOAA Tate has displayed a remarkable sense of enthusiasm that has been expressed in every challenge given him. His excellent behavior, impressive appearance, and cooperative attitude indicates his pride in himself and the Navy."

Meritorious Service Medal awarded to retired Marine Corps officer

Lcdr. Michael A. Rij, Jr., (USN, Ret.), a former assistant projects officer and search and rescue officer while assigned to the Naval Air Facility at China Lake from April 1974 through June 1977, returned to NWC last week to participate in a ceremony during which he received the Meritorious Service Medal.

Presentation of the medal and the citation which accompanied it was made to Lcdr. Rij by Capt. Frederic H. M. Kinley, NWC Commander, on behalf of Admiral J. L. Holloway III, Chief of Naval Operations.

Lcdr. Rij, whose retirement this past June marked the end of 25 years of active duty in the Navy, was cited for his sustained superior performance of duty, particularly as a senior search and rescue (SAR) pilot, during the more than three years that he served at the Naval Weapons Center. He was the Aircraft Department's helicopter feasibility projects officer at the time of his retirement.

While at China Lake, he participated as a helicopter pilot in 14 successful SAR missions. According to the citation that accompanied the Meritorious Service Medal, these missions were flown "frequently in very mountainous terrain, often under marginal or unsatisfactory weather conditions, and generally with very limited time to plan and prepare for the

TD Award . . .

(Continued from Page 1)

\$180,000, compared to \$10,800,000 if all pilots were permitted to fire one live Shrike missile — a procedure that still would not provide adequate training.

Dr. Leonard complimented Patterson on the high degree of technical and management competence that he displayed. "Particular attention should be given to the fact that his (Patterson's) total dedication to the program is directly responsible for the successful implementation of this Shrike training program," the head of Code 36 wrote in his letter nominating Patterson for the Technical Director's Award.

Patterson, a former pilot with 21 years of active duty in the Air Force, retired with rank of major in 1962 at the Air Force's Special Weapons Command at Holloman AFB in Alamogordo, N.M., where he began work as a Civil Service employee on the day following his retirement.

The holder of a bachelor's degree in logistics engineering from the Air Force Institute of Technology at Wright-Patterson AFB in Dayton, Ohio, Patterson was employed in operations and training at the White Sands Missile Range when he made the move to China Lake 11 years ago.

He joined the Engineering Department here and has been the integrated logistic support manager for the Shrike missile program for the past nine years.

mission." Without exception, it also was noted, "Lcdr. Rij carried out each mission with consummate flying skill, great personal initiative, and the very highest sense of professional dedication."

In addition, he was commended for his unique skill as an aircraft commander, and his outstanding leadership ability in developing the search and rescue capabilities of his crew and other SAR personnel. His untiring dedication to carrying out every assigned mission with professionalism and perseverance brought good will toward the Navy within the communities of the eastern California area.

Lcdr. Rij and his wife, a retired Navy nurse who accompanied him here for the medal presentation ceremony, are making their home on board their boat, which is moored at the Long Beach Marina. At the present time, however, they are reported to be on a trip to Mexico.

Among others in attendance during the ceremony in the office of NWC Commander were Capt. S. I. Stocking, head of the Aircraft Department, and Cdr. M. W. Dixon, head of the Test and Evaluation Directorate's Projects Office.

Navy to return to traditional bell bottom style uniform

Chief of Naval Operations Admiral James L. Holloway III recently announced the Navy's decision to return to the traditional bell bottom style uniform for sailors in pay grades E-1 through E-4.

Personnel in this group were chosen because, in an official Navy poll conducted last year, they expressed the greatest desire as a group to return to the bell bottom uniform.

During phase one of the return to bell bottoms, 20,000 Fleet unit personnel will be issued and will wear bell bottoms to evaluate the uniform for durability and ease of maintenance of new fabrics. Fleet Commanders-in-Chief will select specific Navy units to participate in the evaluation.

Both blue and white versions of the classic dress and undress Navy uniform with jumper and bell bottom styling will be evaluated. Fabrics to be evaluated include a blue serge material and a white cotton polyester blend. Blue melton material, from which previous bell bottom blues were made, no longer is available in the quantity required, and the white cotton polyester material is expected to be an improvement over the all cotton whites worn before.

By spring of next year it is expected the new bell bottom uniform will also be available commercially.



AOAA Leonard Tate

high degree of reliability."

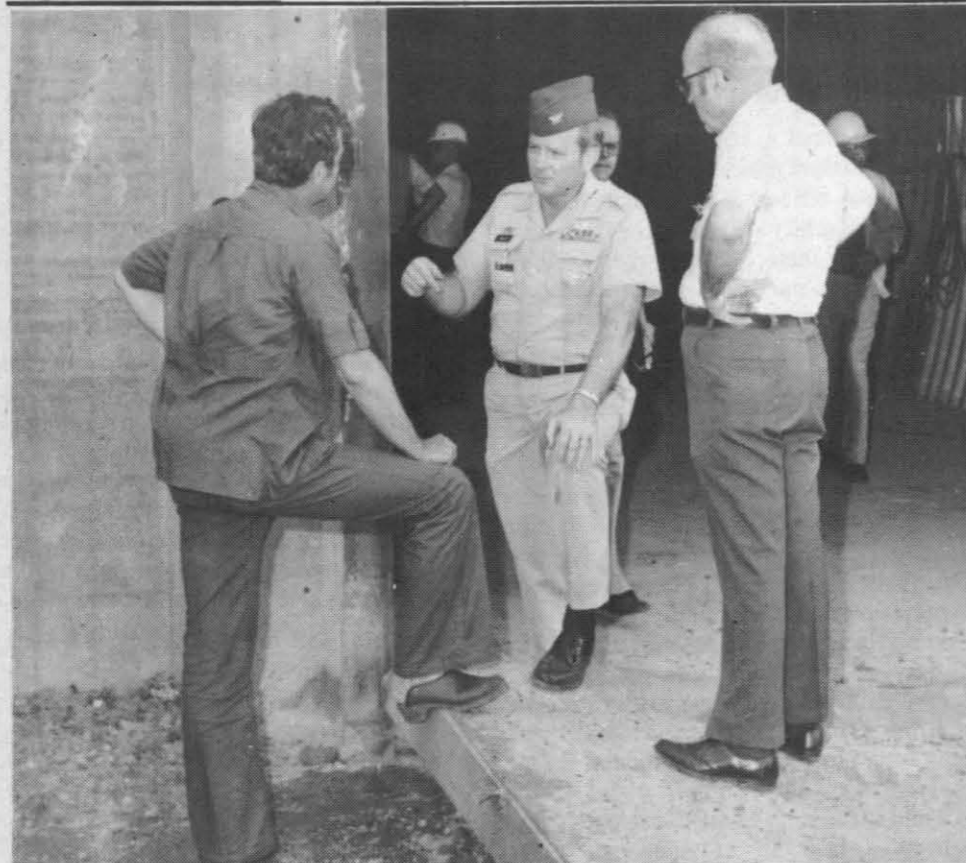
After working in a home-town butcher shop while attending high school, AOAA Tate enlisted in the Navy, because he "was interested in guns, wanted some different experience, and was encouraged by an uncle from San Diego."

The 19-year-old airman apprentice attended basic training in Orlando, Fla., and then completed A-school in Memphis, Tenn. He will be advanced to E-3 on Sept. 16.

AOAA Tate spends as much of his spare time as possible at home with his wife Lori. In addition to interests in hunting, fishing, and softball, he is presently enrolled in Navy correspondence courses in Aviation Ordnance 3 and 2 and in Equal Employment Opportunity.

After his enlistment in the Navy is up, AOAA Tate wants to return to the butcher business. His reason: "I like working with the public in any way."

For his selection as Sailor of the Month, AOAA Tate will receive a 96-hr. liberty pass and a free dinner for two at The Shuttle.



TEST RESULTS DISCUSSED—Army Col. P. G. Kelley (center), chairman of the Department of Defense Explosive Safety Board (DDESB), and Russell Perkins, Director of Technical Programs for DDESB, discuss results they can observe from the ESKIMO V test with an Army officer from the Federal Republic of Germany (back to camera). They are standing on the door that was blown out of the oval steel-arch type igloo. —Photos by Ron Allen

Explosive storage magazines tested . . .

(Continued from Page 1)

side this structure. This latter bit of information is of possible interest to the European Division of the U.S. Army Corps of Engineers, Weals said, since the construction of a large number of the reinforced concrete-arch type magazines is contemplated in Europe, where their construction (in some cases) is less expensive than the corrugated steel-arch models used more extensively in this country.

Minor Damage Caused
Even though the ESKIMO V blast caused minor damage to the head walls of both the steel-arch and reinforced concrete-arch type of magazines, it wasn't the type of damage that test officials are concerned about. "What we worry about," Weals said, "is secondary damage that would set off the contents of a magazine being used for the storage of munitions or other hazardous materials."

Army Col. P. G. Kelley, chairman of the Department of Defense Explosive Safety

Board (DDESB), sponsors of the test and the group responsible for establishing safety standards for the construction and dispersal of munitions storage structures, was reportedly well satisfied with the results of the ESKIMO V test, and expressed his appreciation to key NWC personnel involved in this effort. Among the latter were Bill Finder, project engineer; Bob Rasmussen, range engineer; Virgil Christenson, a section head, and Joe Winters, who were involved in land line telemetry installations; Jack Godett, who was responsible for special photographic coverage of the test; and Lyle Johnson, from the Range Department's Range Support Branch, who handled the video coverage.

Effectiveness Not Reduced
The test confirmed the contention of those responsible for planning and conducting it, namely that removing the concrete thrust beams from the oval steel-arch igloos would not reduce their effectiveness as a safe storage place for explosives. Among the many interested onlookers at the ESKIMO V blast were Army officers from the Federal Republic of Germany, since the Germans also have designed an oval steel-arch type of igloo similar to the one tested at Randsburg Wash.

Observers at the ESKIMO V blast (ESKIMO is an acronym for Explosive Safety Knowledge Improvement Operation) also included visitors from Australia, France, Norway and Canada, as well as U.S. Army, Navy and Air Force officers, military contractors from this country and eight other DDESB members in addition to Army Col. Kelley.

Gradual conversion to metric system being made by DoD

The Department of Defense is going metric gradually to keep in step with American industry and to conform to Public Law 94-168 which calls for increasing use of the metric system. DoD Directive 4120.18, signed Jan. 3, 1977, establishes the basic policy for use of the metric system of measurement throughout the department. This policy provides for the use of metric units in design of new weapons and equipment provided there are no significant technical or cost penalties. Besides fostering a climate for conversion to metric, DoD hopes that increased metric usage will permit more effective North Atlantic Treaty Organization standardization, as the United States is the only non-metric member of that alliance.

In effort to reduce size of herd, BLM begins 'adopt a burro' program

The Bureau of Land Management's "adopt a burro" program has commenced, following the recent inauguration of a roundup by the Bakersfield District of BLM which has as its objective the bringing down to manageable size of a herd of burros estimated to run as high as 2,500 in number. The first phase of this program deals with some 350 burros that range the floor of the Saline Valley, around Waucoba Springs and into the nearby Inyo Mountains — all in southeastern Inyo County. Goal is 275 Animals. According to Bert Hart, range conservationist for the BLM's Bakersfield District, the floor of the Saline Valley and adjoining areas that are known burro habitat appear capable of supporting about 75 of the animals. Consequently, those involved in this first roundup are trying to gather in about 275 burros. Hart is being assisted in the herd reduction program by Lavern Young, range burros specialist, who is directing the field operation, and by Jack Alexander, a BLM technician.

Happenings around NWC
The Stump Breakers, a local rock group, will be performing at the Shuttle tonight and tomorrow night from 9 to 1:30 a.m. A one-pound T-Bone steak special will also be featured tonight from 6 to 8:30 p.m. for \$5 per person. The Shuttle also will provide dancing to the tunes of Jabberwocky, a San Francisco rock group, on Thursday, Friday, and Saturday, Sept. 1 to 3. Thursday's performance will begin at 7 o'clock and continue until 11:30 p.m. Music for the other two evenings will last from 9 to 1:30 a.m. Information about weeknight dinner specials may be obtained by contacting Jack McGraw, manager, phone 446-6969.

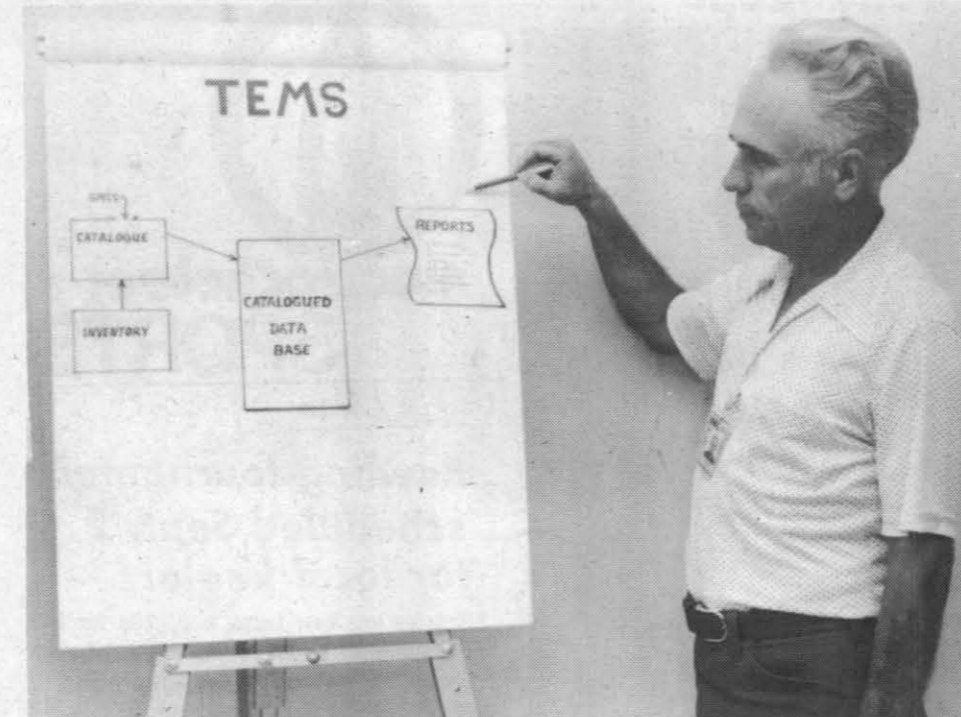
Luau Slated at CPO Club
Tickets are still available for the Chief Petty Officers' Club's annual Hawaiian luau, which will be held on Saturday, beginning at 6 p.m. A buffet of tropical dishes, dancing, and a floorshow by Tiare Productions will be the featured attractions at this special event. Except for the luau entertainment, there will be no other band or dinner special at the CPO club for the weekend. Luau tickets, priced at \$10 per person, can be purchased at the CPO Club office.

Metal Trades Council
The Indian Wells Valley Metal Trades Council will hold its next monthly meeting on Thursday, Sept. 1, at 7:30 p.m. at 65-B Halsey Ave., China Lake. The Council is the representative of a unit composed of non-supervisory, ungraded, civilian employees of the Naval Weapons Center.

Portable Traps Set Up
To capture the first group of burros, portable corral traps were set up near watering holes and allowed to stand until they were accepted by the burros as part of the scenery. After burro traffic at a given water hole returned to normal and the animals entered the corrals, the gates were shut. The burros thus gathered in have been placed in corrals that were constructed by the Forest Service at Bishop. This agency, plus California's Fish and Game Department, has been cooperating closely with BLM personnel in the roundup. Animals captured in the roundup are being branded, but not with hot irons as in the old days. The technique being used is called "freeze branding" and involves the use of a tool that is immersed in liquid



VISITOR FROM TAIWAN — Major General LIU Tze-sze, from the Republic of China, was the recipient of an NWC plaque as a memento of his visit this week to the Naval Weapons Center. The presentation was made by Capt. Frederic H. M. Kinley, NWC Commander, who also accepted a plaque in return from Maj. Gen. LIU. The latter was briefed by Lcdr. Robert Nordman, Fleet liaison officer for Air Test and Evaluation Squadron Five (VX-5), on all of the Mark 80 series bombs and their fuzes. In addition, he was escorted on a tour of the NWC ground ranges by John DiPol, acting head of the Range Department, and listened to explanations given by George Silberberg, a physicist in the Range Electronic Development Branch, on the operation of various cameras and other instrumentation used on the ranges. —Photo by PH3 B. J. Beckman



EQUIPMENT MANAGEMENT PROGRAM — Ed Nelson, head of the Engineering Department's Metrology Branch, prepared this diagram to show how the catalog computer data base of the Center's Test Equipment Management System (TEMS) can be of benefit to equipment users and equipment managers.

System developed for controlling vast inventory of test instruments

An important management function at the Naval Weapons Center is that of managing NWC's large number of test and measuring instruments. The initial procurement cost and present value of this equipment represent several million dollars. A plan was devised, and is approximately 70 per cent implemented, to provide an effective equipment management program which will respond to the needs of the Center.

The basic equipment management plan for NWC includes a closed loop program wherein management personnel, equipment coordinators (user personnel), and procurement personnel interface with a computer data bank to make decisions concerning procurement, maintenance, calibration, control and disposition of test and measuring equipment. The Center's entire equipment inventory represents a large, dynamic equipment pool from which instruments can be loaned and shared at the discretion of the cognizant code. Three essential milestones of the program are:

- Milestones of Program**
 - (1) The development of a computerized data gathering/reporting system to be used as an equipment management tool.
 - (2) The appointment of equipment coordinators in each code or shop to manage equipment at the user level. This includes maintaining current inventories, loaning equipment, reporting utilization, etc.
 - (3) The appointment of an equipment management group to coordinate the overall program.

A computerized test equipment management system (TEMS) was developed by personnel in the Engineering Department's Metrology Branch (Code 3611). Since the Metrology Branch manages the Center's metrology/calibration (METCAL) program and operates the calibration laboratory, TEMS is a natural outgrowth of these functions. TEMS consists of a computer data base and several computer programs which

update the data base and produce advantageous reports for equipment managers. The TEMS data base consists of a record of each instrument in the system listed by manufacturer, model, serial, file number, and plant account number when applicable. Each time an instrument is calibrated, repaired, loaned, etc., the data base is updated to record the transaction. TEMS then maintains a record of the instrument's history and keeps track of: Equipment in the system (inventory); maintenance/calibration (times, dates, and costs), equipment utilization, parts replaced and cost, equipment specifications and functions, calibration recall periods and dates, sticker status (last calibration date, etc.), equipment loans, calibration failures, and job order numbers. The following are some of the reports generated by TEMS:

- Monthly maintenance report** — Report for each code listing instruments serviced or calibrated during the month and the cost of this service.
 - Department/Division Head reports** — Report listing the number of instruments serviced and cost of this service by department and division.
 - Recall and overdue reports** — A list of instruments that are due or overdue for calibration in each branch.
 - Journal entry report** — A report of all job order numbers used and the charges to those job orders.
 - Inventory report** — A report of all equipment in the system sequenced in any manner by code, model, etc. This report lists each instrument's specifications, usage factor, sticker status, recall date, etc.
 - History report** — Total life history of any or all instruments in the system.
 - Loan report** — List of all instruments that are on loan or have been loaned.
- Helps in Variety of Ways**
The data gathering/reporting capabilities of TEMS provides management assistance concerning decisions on equipment, such as procurement (rent or buy), control (use, maintenance, deployment) and disposal. In addition to keeping and reporting instrument life cycle history and providing a dynamic loan pool, TEMS may be used to provide an automatic inventory of equipment that has been serviced or loaned during any period of time. TEMS is not limited to test and measuring equipment but may also be used for other kinds of equipment management such as transportation equipment, office equipment, machine tools, etc. For further information or suggestions concerning equipment management or TEMS contact Ed Nelson, head of the Metrology Branch (Code 3611), by calling NWC ext. 2103.

Two new external degree programs on fall schedule

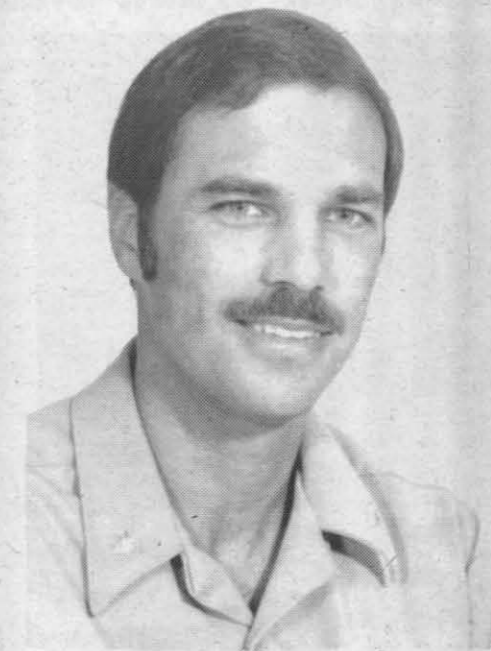
Two new external degree programs—one leading to a master of science degree in electrical engineering from Cal-State University at Northridge and the other to a master of science degree in computer science from Cal-State Fullerton—are scheduled this fall at the Naval Weapons Center. All courses for both programs will be offered locally, and there is no attendance requirement at either university campus. NWC will pay all tuition costs for Center employees if the following criteria are met:

- (1) Course subject matter is identified as job-related or as strengthening the employee's present or potential contribution to the Center's mission.
 - (2) The employee meets the eligibility requirements set forth by the school.
 - (3) The employee obtains a passing grade of "C" or better.
- To pre-register for either of these courses, employees must submit an NWC enrollment form, an academic course enrollment justification form and an individual development plan to Code 094 no later than Sept. 2.

Since these two courses also may meet some professional training needs, NWC employees may audit them and need only submit an enrollment form signed by the appropriate official in their department to Code 094. Official registration will be held only on Sept. 12 from 3 to 6 p.m. in Rm. 211 of the Training Center. Cal-State advisors will be available for individual counseling on or before Sept. 12.

Status of RIF . . .

(Continued from Page 1)
The criteria governing release of employees may cause unsatisfactory results to employees who do not wish to change jobs or managers who do not wish to lose present employees by reassignment or separation. However, the procedures are designed for the broader purpose of eliminating or consolidating positions while protecting individual employee rights. Employees changed to new positions will be given the full support of their supervisors in order to adjust and perform effectively in the shortest possible time. Command restates its intent to do everything to minimize separations as a result of this RIF.



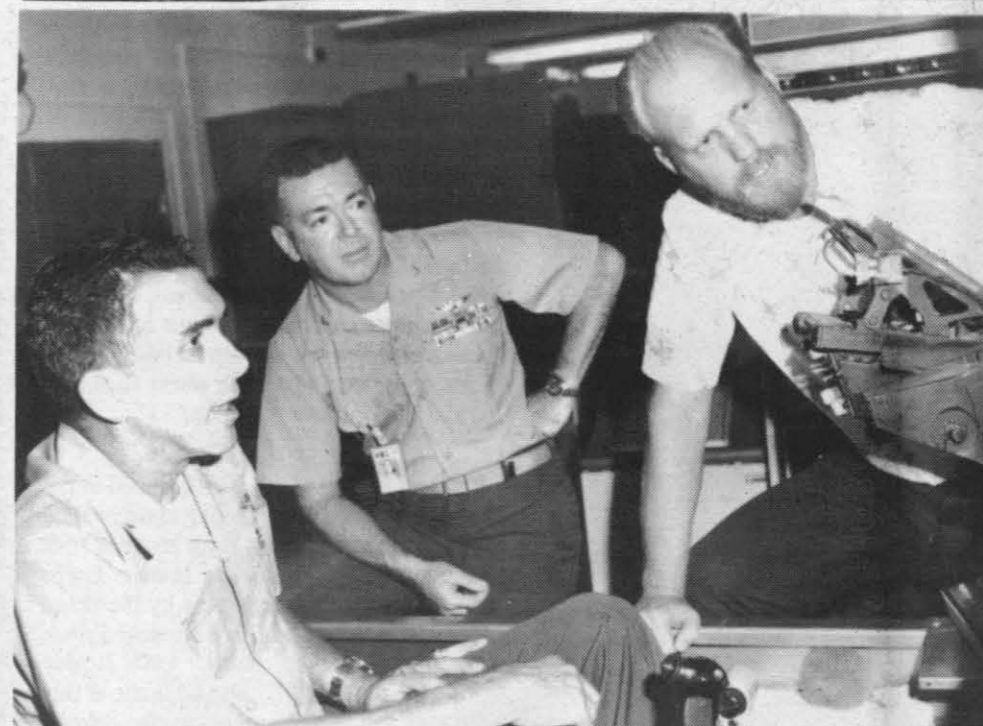
Lcdr. Robert Chernow, USNR-R

Naval Reservist at China Lake for active duty training

Robert Chernow, a lieutenant commander in the Naval Reserve, is currently at the Naval Weapons Center for two weeks of active duty for training. He is a contractor employee at the Pacific Missile Test Center, Point Mugu, where he is a consultant to Air Test and Evaluation Squadron Four (VX-4) on the operational evaluation of the F-14 Tomcat aircraft. Lcdr. Chernow, USNR-R, has been assigned to the Weapons Planning Group's Force Projection Studies Branch, and is working on the Alpha Strike analysis support project.

This is a tactics development and evaluation Fleet support project which is being done for the Commander, Light Attack Wing, Pacific, headquartered at the Lemoore Naval Air Station. The projects calls for providing an analytical evaluation of proposed air wing tactics to be used in large, coordinated strikes against land targets by Navy tactical air units.

Lcdr. Chernow, a former active duty Navy officer from January 1964 to February 1969, flew both the A-4 Skyhawk and A-7 Corsair II during a total of 220 missions over North Vietnam. He joined the Naval Reserve after being released from active duty and has been a member for the past 8½ years. Lcdr. Chernow has been a contractor employee at Point Mugu for 2½ years.



MARINE GENERAL VISITS NWC — Brigadier General W. H. Fitch III, USMC, Deputy Chief of Staff for Research, Development and Studies from Marine Corps Headquarters in Washington, D.C., spent the day here on Thursday of last week for the purpose of reviewing Marine Corps programs at NWC. Shown seated in the cockpit of the A-7 mission simulator at Hangar 3, Brig. Gen. Fitch is being briefed by Harvey Nelson, (at right), manager of the A-4/A-7 simulation facility, on the simulator which is used for validation of the A-7E Corsair aircraft operational flight program. Looking on is Col. L.A. Madera, Marine Corps Liaison Officer at NWC. The distinguished visitor also inspected test facilities in the Randsburg Wash area, and was brought up to date on such varied programs as the angle rate bombing system, helicopter countermeasures and fire control, the forward looking infra-red beacon, force projection studies, current intelligence operations, and ground launched weapons. —Photo by Ron Allen