

### Visits by Parents Encouraged by 3 Schools Next Week

It will be "Back to School" night next week for parents of students who attend three schools within the Sierra Sands Unified School District. These special events, which are open to all interested persons, will be held at Richmond and Vieweg Schools, as well as Burroughs High. "Back to School Night" will be observed at Richmond School on Monday, beginning at 6:30 p.m., announced Richard McCown, principal.

Parents and other interested persons are invited to inspect arts, crafts and other school work by Richmond School pupils on that evening.

The work of grades kindergarten through third grade, and the Special Education classes, will be displayed from 6:30 to 7 p.m., and grades four through six will be presented from 7:30 to 8 p.m.

A short break is scheduled from 7 to 7:30 in the cafeteria. Richmond room mothers and members of the Richmond School PTA, will serve refreshments.

#### At Vieweg School

Vieweg School will combine its "Back to School" night with the first general PTA meeting of the new school year on Wednesday, Sept. 25.

From 6:30 to 7:30 p.m., parents will meet with teachers in the rooms. At 7:30, the general PTA meeting will begin in the school cafeteria.

Dr. Howard Harmon, superintendent of Sierra Sands Unified School District, will be the guest speaker. His topic will be: "In Which Direction Are Our Schools Going?" Refreshments will be served after the general meeting.

#### Burroughs High Program

Burroughs High School's annual "Back to School Night" will be held on Thursday, Sept. 26, beginning at 7 p.m., in the Lecture Center.

Parents of high school students will be provided an opportunity to meet their children's teachers, to hear a brief summary of the class activities, and to review instructional material used in each classroom.

Parents will be participants in a miniature school day—following their son's or daughter's class schedules. Classes will be 10 min. in length, with 5 min. between periods. Parents will be furnished with a map of the campus in order to locate the various classrooms.

Parents should know their children's schedule and room numbers prior to coming to school next Thursday night.

Members of the BHS Pep Club will be on campus to direct parents to specific classrooms in case the visitors become lost.

Following classroom visits, refreshments will be served in the multi-use room on the campus.

The NWC gate will remain open until 10:30 p.m.

### CLOTA Presentation Of 'Virginia Woolf' To Open Next Friday

The Community Light Opera and Theater Association's fall production, "Who's Afraid of Virginia Woolf?" offers a highly tense and dramatic presentation of human emotion and realism.

This emotionality and realism is magnified when set against a background of symbolic representation. With the opening curtain, the pace and tension of the play is introduced, and it isn't until the final curtain that it ends.

The play is set for four performances—Sept. 27 and 28, and Oct. 4 and 5—in the Burroughs High School Lecture Center. Curtain time is 8:15 p.m.

Tickets for this premier show are priced at \$2.50 for adults and \$1.50 for students. They are available at the Gift Mart in Ridgecrest, the Station Pharmacy, from members of the cast, or at the Lecture Center door prior to performances.



**PREPARING FOR 'POPS' CONCERT** — The French horn section of the Desert Community Orchestra is shown during rehearsals for the annual "Pops" Concert, to be presented Oct. 3 on the lanai of the Commissioned Officers' Mess, beginning at 7:30 p.m. The instrumentalists are (l.-r.): Paul Sippel, Ellene Gravelle, Dave Rasmussen, Margaret Chandler and Russ Parker. —Photo by Stan Reynolds

## HAPPENINGS AROUND NWC

A dinner-dance culminating a hard year of work benefitting the Children's Home Society will be held Saturday night at the Chief Petty Officers' Club by the local Roadrunners' Auxiliary of the non-profit adoption and counseling agency.

This will be the first non-profit social activity for the members of the Roadrunners Auxiliary who, along with their spouses or escorts and guests, will be enjoying an evening of dining and dancing. Music will be provided by means of tape recordings.

The theme for the evening, "Shipwrecked in the Caribbean," will be carried out by special settings that will include replicas of ancient pirates' chests and old treasure maps, as well as colorful posters.

#### Aetna Agent To Visit

Jim Neffew, representative of the Aetna Insurance Co., will be at the Community Center next Wednesday, Sept. 25. Participants in the Federal Employees Benefits Program may consult with Neffew from 9 a.m. to 1 p.m.

#### Parent Growth Class Set

Caroline Nathan and Donna Raper, child counselors at the Desert Counseling Center, will conduct a Parent Growth Class, beginning on Tuesday.

Classes will be held from 7 to 9 p.m. in the China Lake office of the DCC, located at the corner of Blandly Ave. and Hussey Rd. Regular attendance will be important, the counselors advised.



**MONDAY LUNCHEONS UNDER WAY AGAIN** — More than 110 guests took advantage of the gourmet luncheon offered by the Maturango Museum last Monday. Willa Schaniel (standing), director of the Monday luncheons' group, greeted (l. to r.) Albert S. Gould, Sr., treasurer of the board of trustees for the Maturango Museum; his wife, Charlotte, president of the Desert Planters of Ridgecrest, and Mrs. Stella Victor, a member of the Museum Docents. Members of the Desert Planters of Ridgecrest and the Oasis Garden Club of Indian Wells Valley are assisting by furnishing the Monday luncheons with an assortment of floral table arrangements. The luncheons will be continued each week, with all proceeds going into a building fund for the Maturango Museum.

Charge for the series of eight classes will be \$35 per parent, or \$50 for a couple, payable by the first class meeting.

Financial help is available for parents who are unable to assume all or part of the cost.

Anyone with questions should call Mrs. Nathan at 446-5586.

#### Gem, Mineral Club To Meet

The September meeting of the Indian Wells Valley Gem and Mineral Society will be held at the group's hut on Rowe St. on Monday, beginning at 7:30 p.m.

Featured speakers for the evening will be Sterling Ensley and Mike Robertson, local science teachers, who will report on a project they have been conducting concerning Mojave green rattlesnakes.

Ensley and Robertson have worked closely with Dr. Finley Russell of the USC Medical Center since the beginning of the project.

The "Pebble Pups," junior branch of the society, will meet from 5:15 to 7 o'clock on the same evening.

#### Dance Planned at COM

The Good Times Band will provide music for dancing at the Commissioned Officers' Mess on Wednesday, Sept. 25, and again on Friday, Sept. 27, from 9 until 1 a.m.

All members and their guests are invited to attend.

In addition, a WACOM Western Night has been scheduled on Friday, Sept. 27.

## 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.  
Matinee—1 p.m.

FRI. 20 SEPT.

"CONRACK" (104 Min.)

Jon Voight, Paul Winfield  
(Human Interest Drama) Teacher Jon Voight departs tradition-ridden Beaufort, S.C., for isolated Yamacraw Island where he intends to teach a group of appallingly ignorant 5th to 8th grade children in a dilapidated schoolhouse. Voight clashes with the principal over discipline methods and becomes friends with Tina Andrews. (PG)

SAT. 21 SEPT.

"FAMILY MATINEE—

"MOSQUITO SQUADRON" (91 Min.)

David McCallum, Suzanne Xeve (G)

"EVENING—

"CONQUEST OF THE PLANET OF THE APES" (87 Min.)

Roddy McDowell, Ricardo Montalban  
(Science Fiction) In a North American city-state in 1991, humans use apes as pets and servants until the animals organize an underground movement and take over the city. (PG)

SUN. 22 SEPT.

"UP THE SANDBOX" (98 Min.)

Barbra Streisand, David Selby  
(Comedy Drama) Happily married and expecting her third child, a young woman imagines herself in more "fulfilling" occupations. (R)

MON. 23 SEPT.

"THE MUTATIONS" (91 Min.)

Donald Pleasance, Tom Baker  
(Science-Fiction) Biology Professor Nolte (Donald Pleasance) seeks to provide the human body with the photosynthesizing capability of plants. Tom Baker provides Dr. Nolter with human specimens. A girl becomes the first victim of Nolter's attempts to create a plant-human mutation, and when she dies Nolter turns to a male student, Tony, successfully turning him into a plant-like creature. Tony escapes, seeks help and finally returns to kill Prof. Nolter. (R)

TUES. & WED. 24-25 SEPT.

"WHERE THE LILIES BLOOM" (97 Min.)

Julie Gholson, Harry Dean  
(Drama) In the mountains of North Carolina live Rance Howard and his children. Although Jan loves well-to-do Harry Dean Stanton, the others hate him. Nursing Stanton's pneumonia, Julie has him sign a deed to the land. The sickly Howard dies and Julie takes over the family. Julie intends that Stanton will never marry Jan. The children pick herbs to support themselves and Julie sacrifices for her sisters and brother. (G)

THURS. & FRI. 26-27 SEPT.

"JOE KIDD" (88 Min.)

Clint Eastwood, John Saxon  
(Western) Mexicans invade small New Mexico town, and fighting breaks out between them and powerful land owners. (PG)

Help Line Gp. To Observe

Fifth Birthday at COM

Help Line will celebrate its fifth birthday with a luncheon on Thursday, Oct. 3, at the Commissioned Officers' Mess.

The volunteer organization will elect new officers and board members during this luncheon and speakers will explain to those in attendance what Help Line is all about. Reservations must be made before Monday, Sept. 30. The numbers to call are 375-2865 or 375-2849.

Cost of the lunch is \$2 per person. The menu will consist of avocado stuffed with chicken salad, or a Reuben sandwich, and a drink.

From: \_\_\_\_\_

PLACE  
STAMP  
HERE

To: \_\_\_\_\_



## nwc rocketeer

Naval Weapons Center  
China Lake  
California

Sept. 20, 1974

Vol. XXIX, No. 37

### New Type Drone Used in Missile Tests

#### Converted Aircraft Used in Simulation Of Aerial Combat

Improved air-to-air weapons and weapons systems have made it mandatory that corresponding improvements be made in targets against which to test such weapons under conditions that come as close as possible to simulating actual aerial combat.

Devising some of the ways and means of verifying that a certain missile will actually perform up to its expectations after being fired comes under the responsibilities of Curtis Bryan's Remotely Piloted Vehicle Project Office in the Surface Development Department's Technology Development Division.

One of the most recent such accomplishments of those who specialize in devising this "acid test" for the weapons is the QF86H drone—a converted F-86H Sabre jet—that is a highly maneuverable, remotely piloted vehicle (RPV).

#### High Performance Target

This is the first time that a target of this capability has been made available to the weapons for test and evaluation of their products, it was noted by Vance Hansen, the QF86H program manager.

This aircraft, Hansen continued, can be flown by remote control as though a pilot was on board and target presentations can be made at speeds up to Mach .96 (nearly the speed of sound) under high G conditions.

In addition to the remotely controlled aircraft, the target system consists of a ground control station and a radar van. The QF86H is an interim target program, and limited logistics support was acquired from the Air Force.

#### Other Key Personnel

In addition to Hansen, key personnel involved in development of the QF86H remotely piloted vehicle are Jay Bornfleth, John Owens, Darwin Rice and Hal Schmeer. These men designed and built the first two prototype aircraft, as well as the ground control system. The latter utilizes the capability of the MSQ-51 radar van, which had previously been in existence at the Naval Air Facility for control of other target aircraft.

A digital proportional control system

### Effort To Reduce NWC Rate Of Energy Consumption Continues

With warm weather nearing an end, and cooler weather ahead during the fall and winter, efforts are continuing unabated to reduce the Naval Weapons Center's overall energy consumption rate.

In comparison with the energy con-

sumption rate during the month of August 1972, efforts made this past month (in line with requirements set forth by the Chief of Naval Material that are aimed at alleviating the "energy crunch") achieved the following results.

According to Ltjg. L. S. Murphy, Public Works Department project officer, during August 1974, electric power use was down 4.9 per cent; use of natural gas in the housing area dropped 18.2 per cent; and industrial natural gas usage was cut by 13.8 per cent.

The largest reductions were reported in propane gas, which dropped by 45.2 per cent, and in diesel fuel use, which was down by 45.7 per cent. Also during the past month, fuel oil usage dropped 24.1 per cent, and gasoline consumption was less by 1.3 per cent.

In explaining some of the changes noted above, Ltjg. Murphy pointed out that the cutback in electric power usage has declined because of lights being left on extra long at baseball fields, and other areas.

### Fed'l Pay Raise To Go Into Effect Oct. 1

Members of the U.S. Senate yesterday rejected President Gerald Ford's plea to delay the 5.5 per cent raise for Federal Civil Service employees and military personnel.

The vote, 64-35 against the President's proposal, means that the raises will go into effect on Oct. 1, as originally scheduled.

Ford had proposed the delay in an effort to curb inflation, but those opposed to this action felt that the some \$700 million saved would have little or no impact on the inflation problem.



**SENT TO POINT MUGU** — Ltjg. Leroy Farr (at right), one of two pilots trained here in the knack of putting the QF86H remotely piloted vehicle through its paces from a ground station, recently flew the target aircraft to the Naval Missile Center at Point Mugu, where it will be used in weapons test work there. On hand when the transfer to NMC took place were Ltjg. John H. Gulley (second from left), NAF targets' officer; Jay Bornfleth, (at left) an electronic engineer in Code 31101, and Vance Hansen, the QF86H program manager. —Photo by PH2 D. W. Yeatts

implemented in an existing F86H cockpit located in the ground control station, Hansen explained. The operator, who must be a qualified aircraft pilot, uses all of the normal aircraft controls and watches a video presentation in addition to an X-Y plotter that give him the geographic locations necessary to fly the aircraft from the ground control station.

A standard TV camera provides the remote pilot with a 45 degree forward field of view.

As a safety feature, the remotely controlled aircraft is equipped with a destruct system in each wing.

The nose compartment of the QF86H drone houses avionics equipment, including an all-attitude gyro platform consisting of a gyro reference unit, an electronic control amplifier and a controller. When a loss of command signal occurs, the Flight Safety Electronics unit recovers the unmanned aircraft from any unusual attitude.

An automatic antenna switch provides maximum signal strength to the command-receiver decoder, which decodes the digital command signals. These signals are then relayed to the airborne interface unit, where they are converted to analog outputs for flight control. A telemetry transmitter is used for conveying to the ground station information necessary to remotely fly the (Continued on Page 3)

### Candidates Sought for Community Council

All terms of office of the present directors of the China Lake Community Council will expire soon, and a new board will be chosen at the same time as the next General Election coming up on Nov. 5.

Representatives will be elected for each of the nine Community Council precincts, in addition to one "at-large" representative. The areas included within each of the nine China Lake Community Council precincts are indicated by the numbers on the housing area map that can be found on the inside of the NWC telephone directory's back cover.

Members of the China Lake Community Council's board of directors



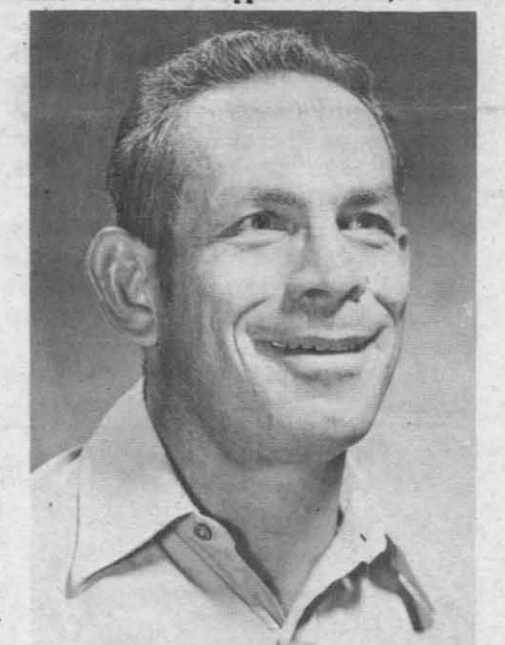
R. W. Murphy

### Two Outstanding NWC Employees Get NSAP Posts

R. W. Murphy and W. W. Baer, both long-time employees at China Lake, have been accepted to fill two of the current Navy Science Assistance Program assignments authorized by the Director of Navy Laboratories.

Murphy, head of the Systems Development Department's Weapons Systems Division, will be leaving on Tuesday with his wife, Virginia, for Taipei, Taiwan, where he will serve for a year as science advisor to the Chief of the Military Assistance Advisory Group.

Baer, the senior project engineer and associate head of the Telemetry Branch in the Test and Evaluation Department's Instrumentation Support Division, left this



W. W. Baer

past Tuesday for his new duties as an electronic warfare analyst at Ford Island on Oahu, where he has been assigned to headquarters of the Commander, 3rd Fleet.

Baer is being accompanied to the Hawaiian Islands by his wife, Hilda, and their four children—William, 15; Robert, 11; Loretta Marie, 9, and Anne Marie, 7.

Murphy will be the first NSAP (Continued on Page 3)

perform a number of important functions that affect NWC residents. These include: Providing one member on the two-man NWC policy board; sending two members to the three-member community hearing board, and administering the television and FM radio repeater stations.

All China Lake residents who are 18 years of age or over are de facto members of the Community Council, and are eligible to serve on the group's board of directors.

Those interested in seeking election to the board are asked to contact Don V. Stanton, by calling NWC ext. 6340 or 446-3764, or Natalie Harrison, phone NWC ext. 3575, as soon as possible.





CPO WIVES CLUB DONATE PJ's. — Young Brian Emert models one of the 16 pairs of pajamas donated to the Pediatrics Ward at the NWC Dispensary recently by the Chief Petty Officers' Wives Club.

New Policy on Pricing Inaugurated At All Navy Exchange, Commissary Stores

Effective immediately, a new pricing policy has been put into operation at all Navy Exchanges and Commissary Stores. So that the consumer thoroughly understands the change, the following information on the new policy has been received from the Navy Resale Office, Brooklyn, N.Y.

The Rocketeer Official Weekly Publication Naval Weapons Center China Lake, California

Radm. Rowland G. Freeman, III NWC Commander

Dr. G. L. Hollingsworth Technical Director

C. E. Van Hagan Head, Technical Information Department



Don R. Yockey Editor Jack C. Lindsey Associate Editor Nancy Jones Editorial Assistant PH2 D. W. Yeatts, Ron Allen, Maurice Dias Staff Photographers

DEADLINES: Tuesday, 4:30 p.m. Photographs Tuesday, 11:30 a.m. The Rocketeer receives American Forces Press Service material...



DIVINE SERVICES

Table listing religious services including Protestant, Roman Catholic, Blessed Sacrament Chapel, and Jewish Services, with dates and times.

PROMOTIONAL OPPORTUNITIES

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad.

Supervisory Architect GS-808-13, or Supervisory Civil Engineer GS-810-13, PD No. 70036, Code 7073 — This position is that of head, Structural and Architectural Branch, Engineering Division, Public Works Department.

File applications for above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514. Supervisory General Engineer, GS-801-13, PD No. 743397, Code 3343 — Position is that of Head, Fuze Project Branch (II) in the Development Division II of the Fuze Department.

File applications for above with Clara Lewis, Bldg. 34, Rm. 212, Ph. 2371. Engineering Technician, GS-802-5 or 6, PD No. 7445077, Code 4523 — Position is located in the Environmental Engineering and Inspection Branch, Propulsion Development Department.

Secretary (DMT), GS-318-5, PD No. 55501, Code 55202 — Position is that of secretary in the SW/Chaparral Program Office in the Engineering Department.

NEW COUNCILMAN — A01 Gary D. Beale, ordnance supervisor at the Naval Air Facility, recently joined the China Lake Community Council board of directors as the representative from Precinct 9 (Wherry Housing).



REACHERS FLIGHT GOAL — Lt. Mark E. Jacobson (r.), an aircraft division office for Air Test and Evaluation Squadron Five, has reached the elusive goal of recording more than 1,000 hours of flight time in a Corsair II aircraft.

PROMOTIONAL OPPORTUNITIES

Working knowledge of high school math and physics. Willing to actively pursue additional academic and specialized training. Clerk-Typist, GS-322-3 or 4, PD No. 7245107, Code 4512 — Incumbent types technical reports, technical notes and other correspondence (official letters and memoranda) generated in the division.

File applications for above with Mary Morrison, Code 457, Rm. 210, Ph. 2393. Clerk-Typist, GS-322-3 or 4 or Personnel Clerk (Typing), GS-203-4, PD No. 7445015-1, Code 45 — Position is located in the Personnel Service Division of the Personnel Department.

Supervisory Personnel Management Specialist, GS-201-12, PD No. 446022Am1, Code 45 — Position is Head of a Personnel Service Division in the Personnel Department.

Supervisors Receive Safety Awards — James F. Peck (l.) and Floyd L. Maxwell (c.), are congratulated by Cdr. James L. Uhe, Acting Public Works Officer, after being presented with certificates denoting multiple years of supervision without a work-loss accident in their respective responsibilities.

Employee In The Spotlight

If the political affairs of Venezuela had not been slightly muddled in 1958, the Naval Weapons Center would have lost the services of one of its better-known employees — Crill Maples.

Following his graduation from Oklahoma State University at Stillwater in 1958, Crill was offered a choice of jobs — one at China Lake and the other for an oil company in Venezuela.

In March 1962 he was made section head of Code 4573, and in October 1963, Crill was promoted to head of the Systems Design Branch. He became head of the Quality Assurance Division in March 1964.

Recently, Crill wrote a document stating the philosophy that will soon be adopted by the Naval Air Systems Command on tailormaking weapons systems to the environment of their proposed usage.

Crill, who was born in Tulsa, Okla., comes of Cherokee Indian stock. His first name is handed down through generations from his Indian heritage. "I never knew the



Crill Maples meaning, however," he said. "My grandmother's parents migrated to Oklahoma in the mid-1800s over the infamous Trail of Tears, and the name has been in the family for about eight generations."

Crill's grandmother donated land to Oklahoma where the famous Cherokee chieftain, Sequoia, was living when he finished the Cherokee alphabet, near Sallisaw, Okla. "There's a monument on the site, now," he noted.

Crill is presently a member of the Indian Wells Valley Skeet and Trap Club, and served last year as vice president of the organization. He has assisted Eva Bien with the Center's Alcoholism program, and sits on a great many Center boards and panels.

In addition, he was recently chairman of the Navy Tactical Missile Environmental Program workshop, and he's currently aiding the DDR&E Engineering Technology Office in forming a JANNAF Working Group on Operational Serviceability.

Desert Art League Schedules Visit By Southland Artist Hilda Mohle Morris, of San Bernardino, will discuss creativity in painting at the first meeting of the Desert Art League on Monday at 7:30 p.m., in the Community Center.





By Jack Lindsey

"I needed something to make me mad before I really got going. The poor sportsmanship of a few of the golfers at the club got back to me when Tom and I made the turn on Sunday, and it was just what I needed."

Bob Hooper was talking about his victory with his partner Tom Short in the CPO Golden Anchor golf tournament last weekend.

"Everybody seems to think that Tom wins these tournaments for us, and that I just add insurance for his low scores. Well, I'll tell you something, I shot a 75 on Sunday without picking up once, and I recorded a 35 on the final nine holes after some of the comments got back to me," he noted.

"One fellow even said that Tom and I should be penalized because we play so well together. Have you ever heard anything more ridiculous?" Hooper asked.

He Wants to Win

Frankly, I haven't. I'm quite sure that everyone who enters these things with the idea of WINNING, does pretty much the same thing as Hooper and Short. Every good golfer, (which Hooper is) attempts to team up with a high handicapper, but it's usually the good golfer who dominates the scoring. Max Smith and Bill Payne are another good example. They finished with 125 net, most of which was Smith's own ball. His partner never recorded a single par on Sunday.

Short was knocked down to a 16 handicap following his devastating scores of 79 and 81 in the Invitational golf tournament earlier this year. However, Hoop had something to say about that, also. "Tom recorded those scores because he picked up on a great many holes and took the same score as mine. He was also very lucky. I think all of this points out to the poor sportsmanship of some of the club members who should know better. I can't help it if some of the teams come in three and four strokes over par net. They should learn to play better," Hoop pointed out.

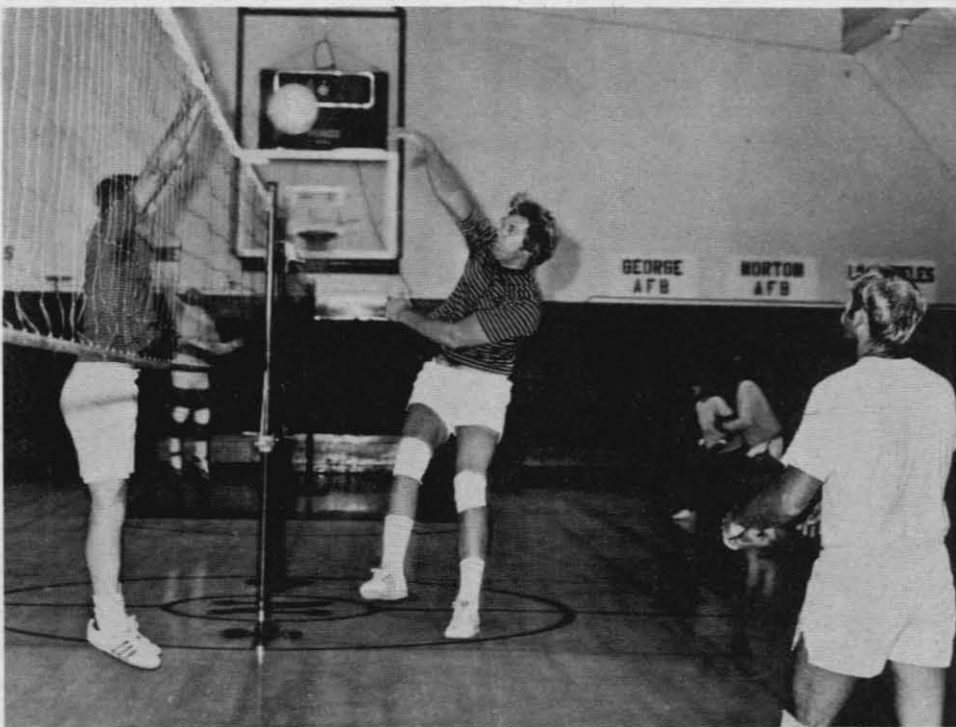
Has Fierce Desire

Most of Hoop's victories have come because of his fierce desire to win. The Catbird said, in this column during the Club Championship golf tournament, that Hoop was virtually undefeated in match play. And so he is. He has only lost once in match play in three years in the intramural league, and he's never lost in the Club Championship. Pretty good for a guy who took up the game at the tender age of 38.

"I don't know what there is about a piece of iron (trophies), but when there's one on the line, I like to win. Elaine (his wife) has a closet full of them. If I could have won this tournament by 50 strokes, I would have liked to have done that," Hoop concluded.

I will admit that I made a few comments about Short in public after the Invitational, and I hereby apologize. I was wrong, and so are the others who think they're both a couple of sandbaggers. Short got out of a hospital bed to play in this tournament, and he may be back in it by the time of this writing, such is his desire to compete and win.

Let's face it—they're both a couple of champions. Well done, fellas.



TEAM NO. 4 WINS DIVISION ONE — Bill Erwin (c.), of Team No. 4 in the Two-Man Volleyball League's Division One, smashes a shot that was blocked by John Saitz, of Team No. 5 (l.). Vern Powell (in white), Erwin's teammate, is ready to return the ball if it comes his way. Team No. 4 won the division and is now entered in the four-team playoffs to determine the champion. Saitz's team came in third and also is entered in the playoffs. His teammate (not shown) is his wife, Dorothy.

### Team 4 Tops Volleyball League Division One

Division One of the Two-Man Volleyball Intramural League has concluded season play, and Division Two will wind up on Tuesday.

Playoffs were started last night between the top four teams in Division One. They are Teams 4, 3, 5 and 6.

Team No. 4 garnered first place in Division One. Its members are Vern Powell, Bob Conroy and Bill Erwin. Team No. 3 is composed of John Robbins and Tom Seufert, while John and Dorothy Saitz compete on Team No. 5. Making up Team No. 6's roster are Frank Santon and Bob Englehart.

The team of Jerry Kissick and Duane Fojt is leading Division Two, with Tim Higgins

and Bob Smith in second place. Bill McBride, Roy Miller and Bill Webster are in third place, while Bob Berry and Frank Koons hold down the fourth place slot.

NWC Varsity

Practice for the NWC varsity volleyball team will begin soon, and Wilt Wyman, supervisor of athletics and youth programs at NWC, is looking for both military and civilian players for the upcoming season.

The varsity team will compete in both the Mojave Desert Inter-Service League and Class "A" tournaments in Los Angeles.

Interested persons should contact Kissick by calling 446-6760, or Wyman, at NWC Ext. 2334.

### BHS Varsity Footballers Open Season Tonight in Bakersfield

The Burroughs High School varsity football team will open its season tonight in Bakersfield with a pre-league game against Bakersfield High School. The Drillers began their season last week with a 9-7 victory over Garces High School.

Coach Bruce Bernhardt has chosen Kevin Smith, returning letterman from last year's squad, to lead the team at quarterback. Aiding Smith will be Steve Blanche, at tailback, and Mark McDowell, in the fullback position. Steve Paine will run out of the slotback spot.

Starting linemen will be Dan McCrumb, at center; Glenn Mosley and John Goodell, as guards; Todd Sorbo and Keith Barron, tackles, and Randy Mather and Mike Hicks, ends.

A second pre-Golden League game will be played on Saturday, Sept. 28, when the Burros will host Santa Maria. On the following Friday (Oct. 4), the Burroughs

### Western Columbia Bowlers Lead Race In Premier League

After two weeks of competition, the Western Columbia bowling team, (5-1) led by R. C. Jones, is ahead of three other squads in the Premier Bowling League by one scant point.

George Barker's Saddleback Sales team, Keith Morgan's NAF squad, and Bobby Kochman's Thad's Pro Shop representatives are all tied for the runner-up spot with identical 4-2 records.

In the first two nights of bowling this fall, a number of fine scores have been recorded, led by Art Karrer's 651 series on the opening night. Jim Wright recorded a triple-200 and a 625 series, and Chuck Cutsinger notched a 618 triple-game set.

Last Monday night, Jim Bowen turned in a triple-200 series, totalling 608 for the three games.

High varsity gridders will open the Golden League season against Barstow, at home.

Quartz Hill will be the next opponent in a game played there, and the Burros will follow that up with Palmdale at home, and against Victor Valley in Victorville.

Kennedy High School will come to Burroughs, followed by two games on the road at Antelope Valley in Lancaster and against Apple Valley. All league games are played on Friday nights.

### Sign-ups Under Way For Swim Classes At NWC Gym Pool

Registration began earlier this week and is continuing at the Center gymnasium between 9 a.m. and 2 p.m. for a group of swimming lessons that will be available for men, women, children and tiny tots beginning Monday.

Adrienne Swinford will be in charge of the swimming instruction, assisted by Heather Thompson and Roland Swanson. In those instances in which enrollment is limited, only between 6 and 10 students will be accepted.

The days of the week that the classes are offered, the time, who may attend, and the fees to be charged are as follows:

Monday: 1-2 p.m., advanced lessons for women, \$10; 3:15-4 p.m., children 7 and 8 yrs. of age, limited enrollment, \$8; 4-4:45 p.m., children 8 to 10 yrs. of age, limited enrollment, \$8; 5-6 p.m., men's swim lessons, \$10; 6-7 p.m., women's swim lessons, \$10.

Tuesday: 9-9:30 a.m., tiny tots 6 to 17 mo. of age, \$6; 9:30-10 a.m., tiny tots 1 1/2 to 2 1/2 yrs. of age, \$6; 10-10:30 a.m., tiny tots, 2 3/4 yrs. of age, fee \$6; youngsters 5 yrs. of age, three limited enrollment sessions from 10:30-11 a.m., 1-1:30 p.m. and 1:30-2 p.m., \$8.

Wednesday: Beginners' swim lessons for women, 1-2 p.m., \$10.

### Hooper-Short Win Golden Anchor Golf Tourney With Ease

Bob Hooper and Tom Short, who have put it all together many times in the past, finally added the CPO Golden Anchor golf tournament to their list of victories.

Scoring with best-ball-of-partners rounds of 60 and 61, the dynamic duo combined to shoot a total score of 121, good enough to win the tourney by three strokes over Joe Stricheck and Dick Davis.

The same pair won the Invitational Tournament earlier this year, and have notched a few other victories over the past five years—both at China Lake and while playing in tournaments at other cities.

Stricheck and Davis tied the low round of the day (61) on Sunday to squeak into second place, one stroke ahead of Max Smith, current golf club champion and his partner, Bill Payne. Smith and Payne were tied with Hooper and Short, and Leo Maki and Wayne Jackson for the first round lead following play on Saturday. The three teams recorded scores of 60 net after 18 holes.

Maki and Jackson finished fourth after shooting a round of 66 on Sunday for a total of 126. Bill Sorbo and Frank St. George, and the team of Bud Eyre and Jim Anderson finished with identical 127s, good for a fifth place tie.

Three teams recorded two-day totals of 128 to conclude the net prize list. They were the duos of Chris Peterson and Keith Becker, 64-64; Vince Villa and Elmer Davis, 64-64; and Jim Darwin and Larry Cardinal, 62-66.

Low Gross winners

Curt Bryan and Dick Clay won the low gross honors in a sudden death playoff against Pete Rice and Ed Brooks for the two teams tied with scores of 144 (even par) at the end of the regulation 36 holes.

Clay, who reached the No. 1 green in two shots, missed an 8 ft. eagle putt, but sank the birdie tap-in for the win.

Hooper, who hit last on the No. 1 tee Sunday, nosed out Luke Thomas for the long drive contest, smashing his tee shot approximately 270 yd. Closest to the pin honors were won by Dick Davis, who put his tee shot about 2 ft. from the flag on No. 6.

Winners were awarded gift certificates redeemable at either the Special Services' pro shop or at Adam's Den, a men's clothing store in Ridgecrest.

### Fall Tennis Tourney Planned in October

The Fall Open Tennis Tournament, sponsored by NWC's Special Services and the China Lake Tennis Club, will be held on Oct. 19-20, and Oct. 26-27.

Consolation rounds in men's and women's singles will be held for the first time, as will an intermediate men's singles division.

The tournament is open to all residents of the Indian Wells and Searles Valleys. Entries will be accepted at the Center gymnasium, beginning on Oct. 1.

### Flag Football Deadline

Today is the final day to sign up for flag football. Three teams have been entered in the proposed Flag Football Intramural League, and a fourth is needed before the league will become a reality.

Men thinking about playing should contact Wilt Wyman, by calling NWC ext. 2334; T. J. Searcy, ext. 5369, or Benny McCargo, ext. 5203.

### Female Bowlers Needed

Chris Emert, secretary of the "Ding-a-Lings" bowling league, which meets on Thursday mornings at Hall Memorial Lanes, reported that the league is seeking bowlers.

Wives of active or retired military personnel are eligible to bowl in this league. Any interested person should contact Mrs. Emert by calling 446-4228. The league will begin play on Sept. 26.



EMPLOYEES SHARE PATENT AWARD — R. M. Hillyer (at right), head of the Fuze Department, examines a "Digital Integrating Accelerometer" that was invented by Steve Redmond (at left) and Matt Anderson, two of the employees in his department. Redmond divided a \$100 patent award for this device, which is a safety and arming system that provides for digital electronic integration of an acceleration signal for generating a digital signal as a measure of distance traveled during the period of acceleration. This device, which can (for example) be used in missiles, represents a significant improvement over present mechanical devices, for it has the advantage of providing a digital electronic safety and arming system in which the final step of arming is achieved by a fail safe procedure —Photo by Ron Allen

### Murphy, Baer Get NSAP Posts...

(Continued from Page 1)

aircraft as though a pilot was on board.

The first successful flight of the QF86H, an air-combat maneuvering, all-attitude target system, occurred at the Naval Weapons Center on March 30, 1973. Many other unmanned flights have been accomplished since then.

The total program calls for converting 29 aircraft that will be used to provide realistic target presentations for weapons systems test and evaluation. All of the conversion work is being done here by a contractor and NWC personnel.

To date, seven QF86Hs have been converted, but two were expended purposefully as missile targets and one of the RPVs was transferred to the Naval Missile Center at Point Mugu. NWC personnel built their own ground station according to documentation provided by China Lake.

As of mid-August at China Lake, there had been 10 target presentations with the QF86H for the following programs: four firings of the Sparrow AIM-7F; four firings of the Sidewinder AIM-9L, and two firings of the Sidewinder AIM-9H.

With respect to missile test and evaluation requirements, the QF86H has demonstrated several significant improvements over other target aircraft and drones, according to Lt. Col. M. D. Hall, USAF, Project Officer in the Systems Development Department.

### Sociology of Crime, Delinquency Subject Of Ext. Div. Course

A UC Santa Barbara Extension Division course, entitled Sociology of Crime and Delinquency, will be offered at the NWC Training Building, beginning next Tuesday evening.

The course, which will be taught by Charlie F. Stowell, program administrator for the California Department of Corrections at Tehachapi, will be held on Tuesdays, from 7 to 10 p.m., through Dec. 10.

A 4-unit course, it is intended for law enforcement personnel and persons working in related fields. Among subjects to be covered will be theories of the genesis of delinquency and crime, and factors in the organization of delinquent and criminal behavior. Persons interested in enrolling can make arrangements to do so by calling Annette "Suzie" Karrer, the UC Santa Barbara Extension coordinator for the Ridgecrest-China Lake area, at 446-5885.

### New Target Drone Developed...

(Continued from Page 1)

representative assigned to Taiwan, and will be working with the Joint U.S. Military Assistance Group headed by Major General Slade Nash. He is going to the Far East to handle an assignment that will be connected primarily with shipboard weapons, and his function will be to furnish on-the-spot technical assistance and prototype equipment.

Murphy's background for this work was initiated here 24 years ago with training in mechanical engineering, but for the past 18 years he has held increasingly responsible supervisory positions.

Varied Work Experience

Over the nearly 2 1/2 decades that he has been at China Lake, Murphy has been involved in designing test vehicles for the Supersonic Naval Ordnance Research Track (SNORT) and worked on shipboard digital fire control programs for the old Test Department.

More recently, his work with the Weapons Systems Division in Code 51 has been in the field of air-launched weapons.

Baer's special assignment is to serve as an expert on electronic warfare to the 3rd Fleet. He will do this by acting as an analyst on many of the Fleet's projects in the EW area, and will be deeply involved in the planning of 3rd Fleet exercises that call for his expertise in electronic warfare.

Baer, who first came to China Lake nearly 20 years ago, has gained special knowledge in this field as the result of his involvement with a variety of Naval equipment systems. For four years he led a group in the

### Word Received Of Death of Former Scientist at NOTS

Information was received this week at the Naval Weapons Center about the recent death of Dr. Wallace R. Brode, 74, one of the senior scientists here during the early days of the Naval Ordnance Test Station (now Naval Weapons Center).

Dr. Brode, who died on Aug. 10 at George Washington University Hospital in Washington, D.C., served as head of the Science Department (predecessor to the present Research Department) from 1945 to 1947. He left China Lake to become associate director of the National Bureau of Standards.

Dr. Brode, president of the American Chemical Society, was a pioneer in the modern methods for using light to analyze elements and compounds. His career included broad experience in research, education, government and industry.

### Reservations Due For Luncheon Talk By RAdm. Freeman

All those persons who plan to attend the luncheon on Tuesday at which RAdm. R. G. Freeman III, NWC Commander, will speak, are advised that reservations must be made no later than tomorrow.

Tickets, priced at \$3 per person, can be ordered by contacting Jim Serpanos, NWC ext. 3340, or Bill Standard, at ext. 2257.

RAdm. Freeman's subject will be "Concepts of Weapons Systems Acquisition" during the luncheon sponsored jointly by the American Institute of Aeronautics and Astronautics, the Desert Area Branch of the American Society of Civil Engineers, and the China Lake Chapter of the American Society for Public Administration.

### Indoctrination Offered In Handling Explosives

A general indoctrination course for training in the certification process for employees who perform or supervise tasks involving ammunition, explosives or explosive devices has been scheduled on Oct. 7 and again on Oct. 21 at the Safety Department Building.

Employees interested in this course must submit an NWC enrollment form directly to Code 22 no later than Monday, Sept. 30.

development of equipment for airborne countermeasures, and was responsible for providing test equipment and technical support to VX-5 in the operational evaluation of electronic warfare equipment that was tested at Echo Range.

In addition, as a member of the operational staff at Echo Range, Baer helped to set up and conduct some of the early experiments there; worked on a digital ranging system for the Talos Fire control system, as well as on satellite system ground stations. At one time, he operated an NWC-developed satellite tracking station in Alaska.

Other work performed by Baer that has been valuable preparation for his role as an electronic warfare expert to the 3rd Fleet includes serving as the technical manager on a contractor-developed military satellite system used to identify aircraft by employing radar techniques.

There are still some Navy Science Assistant Program assignments that are open, Frank Buffum, the Center's NSAP coordinator, reported. In most cases they call for someone who holds a GS-15 or above rating, but occasionally (depending upon the individual's qualifications) a lower graded employee will be accepted. Interested employees should contact Buffum by calling NWC Ext. 2419 or 2006.

Close Rapport Developed

One intent of the NSAP field assignments is to develop a rapport between the operational forces and the Naval laboratories. Those selected for NSAP science advisor posts can provide a quick response NAVMAT laboratory program to select Navy and Marine Corps commands.

The commands to which they are assigned benefit by having on-site experts in various fields who can try out both hardware and tactics during their tours of duty.

NSAP science advisors also are expected to provide quick response assistance in times of crisis, and the problems which they encounter in the field lead to a more educated R&D community that will be geared to keeping equipment simple and trouble-free.

### Figures on Lost-Time Accident Sign Drop

The figures recording the number of days worked at the Naval Weapons Center without a lost-time accident underwent another revision recently as the result of the mishap that occurred on Aug. 21.

According to a Safety Department spokesman, it wasn't known until last week that a Public Works Department painter who fell off a scaffolding would be off work as a result of a knee injury.

It turned out later, however, that he also had to be treated for a concussion.

The number of days worked without a lost-time accident at the Center is posted on a sign at the corner of Blandly Ave. and Knox Rd.

### PG&E Workers To Check Gas Line Installations

The work of converting from the use of propane to natural gas in Desert Park (the Wherry housing area) has been completed by PG&E employees, Cal Fallgatter, head of the Public Works Department's Housing Division, reported Wednesday.

So it will come as no surprise to anyone, Fallgatter also stated that Desert Park residents can expect to see PG&E employees, who have keys to the residences, entering homes for one final check to make sure that everything is in operating order.

### Anti-Abortion Gp. To Meet

A meeting for local residents interested in becoming members of the Right to Life League of Southern California will be held next Wednesday, Sept. 25, starting at 8 p.m. in the multi-purpose room of Las Flores School in Ridgecrest.

The program will include a presentation of film slides on fetal development and abortion.



IN APPRECIATION — On behalf of Rear Admiral R. G. Freeman III, NWC Commander, a letter of appreciation was presented recently by Dr. Russell Reed, Jr., (at left) head of the Propulsion Development Department's Applied Research and Processing Division, to Jack Pakulak, the latter, who heads the Thermal Research Branch in Code 45, was commended for providing test data that simulated conditions of the railroad car explosion at Roseville, Calif., and enabled the Navy to establish the probable cause of the accident.



# Results of Incentive Awards Program Reported

Results of the Naval Weapons Center's Incentive Awards Program for the period from July 1, 1973, through June 30, 1974, were made available recently by the NWC Personnel Department.

The various categories of awards covered in this report were Beneficial Suggestions, inventions, Superior Achievements (mostly group awards), and Sustained Superior Performance Awards.

During Fiscal Year 74, 228 employees submitted ideas for Beneficial Suggestion awards. Of this total, 41 were adopted that resulted in estimated tangible savings of \$319,138 during their first year of use.

The employees who submitted the Beneficial Suggestions received cash awards totalling \$4,835 for their efforts.

In the field of inventions, 135 were presented during the past fiscal year to employees whose ideas brought them a grand total of \$14,850; \$15,945 was received by 53 employees who earned Superior Achievement Awards, and the group of 87 employees who were presented Sustained Superior Performance Awards pocketed \$20,450 for their exceptional efforts.

The summary of Fiscal Year 74 Incentive Awards at NWC include four awards that

were in excess of \$1,000.

A Beneficial Suggestion award of \$1,245 was presented to Howard M. Forrester, an electronics engineer in the Fuze Department Development Division II. His suggestion resulted in tangible benefits to the government in the amount of \$180,711.

Ten other NWC employees shared in a Superior Achievement Award of \$1,500 that resulted in tangible benefits of high value and general application. They were Margaret L. Mavis, Almer B. Galloway, Richard N. Oehlberg, Gregory D. Peterson, Floyd C. Richards, William C. Tonkin,

Melvin H. Keith, Harry R. Bliss, Rex N. Randolph and George F. Stillwell.

Another Superior Achievement Award of \$1,500 was divided among Vance L. Hansen, John L. Owens, Jay W. Bornfleth and Hal Schmeer. It, too, resulted in tangible benefits to the government of exceptional value and broad application.

In addition, an award of \$1,200 was presented to three inventors—Darrell A. Bymoen, Donald G. Quist and Gaylon L. West.

The various awards presented, and the recipients (by department) were as follows:

### BEFICIAL SUGGESTIONS

**SAFETY** — T. T. Chapman.  
**SUPPLY** — Marvin R. Cornelius and Fred W. Truster.  
**FUZE** — Patricia M. Emerson and Howard M. Forrester.  
**PROPULSION DEVELOPMENT** — William L. Black.  
**ENGINEERING** — William R. Matteson and Donald R. Witterbreink.

**RESEARCH** — Margaret A. Chandler, Nancy L. Lamson and Betty E. Eggleston.

**PUBLIC WORKS** — James B. Asher, Robert J. Babines, Joseph O. Cron, H. M. Linsea, George Perrige, Michael J. Albers, Milton L. Blowers, Jerry D. Brooks, David A. Cane, Jack L. Tipton, A. C. Craver, Vernon T. Fava, J. N. Frye, Dennis T. Garrett, Ronald W. Harp, James M. Lawson, J. D. Morse, B. W. Llewellyn, Ernest D. Loscar, Edmund W. Meisinger, Carl A. Nymhol, Bill Richardson, K. W. Smith, J. R. Todd, Jirmine D. Upson and L. N. Lathrop.  
**SECURITY** — Antonio Delacruz.  
**SUPERIOR ACHIEVEMENTS (INVENTIONS)**  
**NAVAL AIR FACILITY** — Lloyd J. Holt, Harry L. Myers and Gordon F. Zurn, Jr.  
**SURFACE MISSILES** — Darrell A. Bymoen, Robert E. Swallow, Gaylon L. West, Carl H. Morley, Lohr A. Burkardt, Richard M. Smith and Lyman F. Van Buskirk.  
**FUZE DEPARTMENT** — Matthew E. Anderson, James E. Means, Stephen L. Redmond, Everett M. Bens, Richard G. Brophy, Theodore N. Bryla, Herbert A. Bulgerin, Robert L. Conger, Charles A. Roberts, Frederic L. Menz, William G. Finnegan, Lohr A. Burkardt, William B. McLean, William S. McEwan, Edward W. LaRocca, C. Robert Hamilton, David C. Haupt, Walter F. Smith, Carl A. Heller, Herbert P. Richter, Jerry O. Jones, Michael R. Osburn, Carl B. Lindsey, Joe A. McKenzie, Bennie D. Macomber, Eldridge A. Williamson, Anthony Estrada, William R. Magorian, John S. Markall, James C. Rudeen, Wilbur B. Lunt and Thomas B. Whiteley.

**ELECTRONIC SYSTEMS** — Darrell A. Bymoen, Donald G. Quist, Gaylon L. West, Richard S. Hughes, Robert E. Atkinson, Joseph A. Mosko, Robert G. Corzine, Donald W. Peterson, Werner Hueber, Pierre St. Amand and Frank St. George.

**TEST AND EVALUATION** — William C. Griffin, Lynnwood Baker, Kenneth R. Foote and Gary F. Hartman.

**WEAPONS DEVELOPMENT** — David W. Kermodo, Robert G. Sewell and Carl C. Halsey.

**PROPULSION DEVELOPMENT** — George W. Burdette, Dean H. Couch, Milton K. Burford, Vernon D. Burkund, Joseph A. Schmidt, Michael D. Jacobson, Paul E. Cordle, C. T. Johnson, James K. Brown, James P. Diebold, Arthur J. Dierolf, Robert B. Dillingier, W. J. Stone, Howard H. Payne, Charles W. Falterman, Fred Mead, Wallace E. Silver, Pearlie S. Whiggins, William J. Griffith,

Perry L. Fletcher, C. Douglas Lind, James A. Bowen, Larry H. Josephson, Alvin S. Gordon, Harold J. Grying, Kenneth R. Foote, Michael Amala, Joseph W. Hanzel, Warren P. Froehner, Robert J. Gere, George S. Handler, George A. Hayes, Lawrence E. Kapinos, Martin H. Kaufman, Bernard Wasserman, Howard W. Kruse, Richard A. Breitenross, Donald W. Lockwood, Herbert D. Mallory, Charles M. Martin, Cecil A. Glass, Melvin J. McCubbin, Clifford T. Johnson, C. V. Nakajishi, Michael R. Osburn, R. L. Merron, E. C. Julian, B. Eldridge, G. B. Rice, R. L. Dow, C. R. Rodgers, B. O. Stull, Robert Meyers, Frank Crescenzo, Donald Miller, James L. Murray, Lawrence M. Sires, Paul L. O'Neill, Juan F. Hooper, Jack M. Pakulak, Jr., Edward A. Panella, John R. Peoples, Henry T. Sampson, Dino Sbrocca, William J. Stone, M. Frank Pickett, Michael J. Ripley, LeRoy M. Stanyon, Ronald F. Vetter, George F. Sieg, Howard W. Gerrish, Jr., Irvin F. Witkosky, Elmer J. Rhyn, Frederick A. Emerson, Jr., William H. Thielbahr, Stanley E. Wood, Richard J. Zabelka and Lloyd H. Smith.

**SYSTEMS DEVELOPMENT** — James L. Jernigan, Thomas P. O'Neill, James B. King, Douglas M. Turner and Donald Quist.

**ENGINEERING** — Henry F. Blazek, Charles W. Cutlinger, Gary E. Castor, Alton R. Elder, Vincent J. Taylor, George H. Gill, Robert E. Hunt, Kenneth L. Moore, Daniel Merz, Jr., Paul Mikonis, Leslie P. Robison, Wayne G. Zellmer and Marvin E. McGowan.

**RESEARCH** — Arnold Adicoff, William G. Finnegan, William M. Ayres, William R. McBride, Edmond J. Ashley, Donald L. Decker, Jean M. Bennett, Carl F. Austin, Carl C. Halsey, Harold E. Bennett, Nicholas Botka, Lynn D. Hutcheson, L. A. Burkardt, F. Kirk Osencranz, Pierre St. Amand, Charles D. Stanifer, Richard S. Hughes, Keith L. Gardner, Howard A. Wilcox, Karl J. Kraeufel, Edward W. Price, Herbert D. Mallory, William S. McEwan, Peter R. Hammond, William P. Norris, B. Bernard Mathes, Anthony San Miguel, Klaus Schadow, R. G. S. Sewell and Irwin Koff.

**SUPERIOR ACHIEVEMENT AWARDS**  
**WEAPONS PLANNING** — Benjamin E. Brown, Dale M. Bryson, Douglas G. Kinney, Louis G. LaMarca, Ronald R. Carlton, David G. DeRoulet, Richard H. Vollmerhausen, Warren E. Slump, Thomas A. Seufert, Carl D. Simecka, Thomas A. Mueller and Thomas K. Rindt.  
**CENTRAL STAFF** — Elizabeth D. Freeman.

**SURFACE MISSILES** — Roland E. Baker, Vance L. Hansen, John L. Owens, Jay W. Bornfleth and Harold Schmeer.

**FUZE DEPARTMENT** — Roger E. Fisher.

**ELECTRONIC SYSTEMS** — Raymond M. Banks, Charles W. Fees, David H. Garretson, John A. Haug, Clifford C. Hunter, Wilvan W. Mathews, Richard V. Peter, Hayden L. Smith, Darrell A. Bymoen, Donald G. Quist, Gaylon L. West, Richard S. Hughes, Robert E. Atkinson, Reuben E. Nykawand, Benjamin W. Springfield.

**WEAPONS DEVELOPMENT** — Vincent P. Accurso, Allyn R. Berryman, George W. Carle, Vernon L. Gibson, William H. Beckett, George D. Goetz, James G. Mertz, Margaret L. Mavis, Almer B. Galloway, Richard N. Oehlberg, Gregory D. Peterson, Floyd C. Richards, William C. Tonkin, Melvin H. Keith, Harry R. Bliss, Rex N. Randolph, George F. Stillwell and Orlando C. Valdez.

**PROPULSION DEVELOPMENT** — Richard D. Fulmer, Gary R. Burnger, William D. Sutherland, Darrell W. Walker, Jack M. Pakulak, Jr.; Willard D. Snyder, Howard C. Schafer, Billy D. Martin, Gerald Panek, Paul Fry, John Mahoney, Robert Hall, Pat Hall and Milton R. Wolfson.

**SYSTEMS DEVELOPMENT** — George S. Burdick, Annette M. DiPol, Allen B. Gates, George A. Graf, Glen D. Hollar, Martin H. Landau, John K. Mills, Thomas F. Shueber, Thomas K. Jones, John W. Joyner, Loyd C. Moore, Richard A. Schmitt and George F. Teale.

**TECHNICAL INFORMATION** — Alberta L. Cox, Irene B. Rainey, Mary R. Zapala, Theresa M. Paulsen, Peter W. Dietrichson, John E. Duncker, William F. Beasley, Gail L. Falkenberg, Steven S. Wilson, Jacob J. Durk, James B. Downard, Jr., Patricia J. Gallup, Elaine M. Kapka, Dale Sh. Freeman, Jon P. Partin, John Y. Ho, Kenneth J. Ford, L. Rita Pirozek, Robert D. Glenn and Anna L. LaRosa.

**RESEARCH** — H. Bernard Mathes, Jr., William S. McEwan, Taylor B. Joyner, Howard C. Schafer and Jack M. Pakulak, Jr.

**PUBLIC WORKS** — Jr. R. Arredondo, R. G. Diaz, R. D. Douglas, L. M. Hines, J. A. Hyles, O. W. Llewellyn, F. D. Lori, L. C. Reyes, K. W. Smith, C. H. Westbrook, D. J. Aubrey, M. K. Gallen, J. H. Rhodes, R. A. Owens, A. M. Thorpe, W. K. Bebe, R. R. Clout, M. F. Hinojosa, N. M. Harmon, R. M. Johnson, C. A. Nyholm, L. E. Bradshaw, L. D. Pipkin, D. E. Wegley, Robert Bliss, J. F. Elliott, M. L. Blagg, R. L. Schroers, P. H. Weeks, T. A. Mullen, N. W. Torgerson, G. W. Muse, T. A. Wilson, B. C. Peterson, Dugan Hanson, W. M. Lamb, G. N. Jones, D. L. Hawkins, W. R. Martin, Alfred Carrasco, N. F. Davis, R. D. Alford, C. E. Evans, H. L. Pangle, R. L. Peyton, J. W. Semora, Rubin Szymanski, J. R. Fernandes, J. R. Todd, D. W. McCullar, J. B. Asher, F. M. Jones, John Molder, Donald Wegley, P. J. Coughran, M. F. Richardson, C. D. Lowe, I. L. Maupin, R. E. Preut, J. H. Kirkpatrick, G. L. Irvine, E. D. Cullender, D. C. Futler, Gordon Carlton, H. W. Miller, J. L. Miller, H. D. Wise, W. H. Richards, W. E. Specht and Robert H. Wagner.

**SUSTAINED SUPERIOR PERFORMANCE AWARDS OFFICE OF COMMANDER** — William B. Porter.  
**WEAPONS PLANNING** — Barbara J. Biddlingmeier, Marian E. Buck, Reuel O. Laune III, Norma J. Meuser, Virginia I. Pearia and William W. Poole, Jr.

**CENTRAL STAFF** — Marjorie L. Brunson and Donna M. Gliaviano.

**SUPPLY** — Charlotte J. Eady, Roy W. Getchell, Leah B. Glidewell, Joanna J. Gniewek, and Harold D. Stainaker.

**ELECTRONIC SYSTEMS** — Leland D. Bare, Samuel L. Barlaam, Leslie E. Caffe, Raymond Caruso and James M. Koch.

**WEAPONS DEVELOPMENT** — Dean H. Bergvein, Alvin L. Cleland, Jimmy L. Cook, Betty S. LaJeunesse, Robert F. Lange, John W. Onstott, Stanley G. Rajtora, Edward A. Teppo, Joseph R. Togami, James H. Whittington, Lonnie A. Wilson, and Richard F. Wisdom.

**PROPULSION DEVELOPMENT** — Edmund J. Regan and John J. Sochor.

**SYSTEMS DEVELOPMENT** — Edwin M. Allen, Harold G. Cook, Helen K. Gaar, Ivan R. Goff, Sherrie L. Mahoney, Thomas W. Preston, B. Joann Pritchett, Margaret A. Raphael, Barrie L. Riddoch, Stanley T. Smith and Gerald L. Stevens.

**TECHNICAL INFORMATION** — Margaret M. Ender.

**ENGINEERING** — Norman Berry, Peter Boucin, Robert Byrne, Paul L. Davison, George H. Gill, Roy H. LaFon, Charles Marvin, Nelson L. Peltty and Harry A. Thacker, Jr.

**RESEARCH** — Wayne E. Thun.

**PERSONNEL** — Dora Childers, Ross A. McCallister, Jr., and Dixie T. Shanahan.

**PUBLIC WORKS** — R. W. Blaine, Sr., T. T. Cabe, E. H. Copeland, Max Donald, L. G. Greene, J. W. Haygood, E. H. Hogue, M. A. Hunter, Matt H. Hyvonen, G. N. Jones, R. C. Kirkendall, Oliver W. Llewellyn, Thomas R. McCoy, C. E. Miller, L. E. Morgan, P. A. Murrin, Martin Peltz, George Perrige, E. W. Proffer, D. T. Rollingson, F. S. Speakman, R. S. Taylor, J. D. Upson, W. A. Watts and N. R. Zapala.

**SECURITY** — Virginia L. Anderson, Natalie V. Harrison, and Marie Ann Michel.

**COMMAND ADMINISTRATION** — Oscar A. Imer and Donna B. Long.

**OUTSTANDING PERFORMANCE RATINGS**

**TECHNICAL PRESENTATIONS COORDINATOR** — Richard W. Rusciolielli.

**DEPUTY TECHNICAL DIRECTOR, ELECTRONIC SYSTEMS** — Richard M. Johnson.

**DEPUTY COMMANDER** — Mary J. Driggs.

**WEAPONS PLANNING GROUP** — Edwin G. Swann.

**TECHNICAL OFFICER** — Diana Y. Combs, Alice J. Short and Beverly J. Weisbrich.

**CENTRAL STAFF** — Monroe B. Sorge, Clara N. Williams, Alan S. Vokolek, Kiyoshi Fujiwara, Daniel G. Burnett, Mary L. Gott and Edeia M. Fischer.

**NAVAL AIR FACILITY** — Florence M. Joles and Edith E. Haley.

**SUPPLY** — Charlotte J. Eady, Beulah B. Glidewell, Barbara J. Thurman and Barbara L. Marine.

**SURFACE MISSILES** — William B. Porter, Gerald O. Miller, Larry W. Elder, Merie E. Ross, Curtis V. Bryan, John J. Stedman, John W. Ayers, Marvin L. Phillips, William P. Bailey, Charles R. Stribley, Gaylon L. West, Frank E. Goerlich, Curtis B. Hamre and Alonso S. Price.

**FUZE DEPARTMENT** — Roy L. Nichols, Jack D. Westfall, John Huang, Robert M. Hillier, Clarence A.

Merzals and Matthew E. Anderson.

**ELECTRONIC SYSTEMS** — Donald A. Orton, Gerald R. Schieler, Charles B. May, Delores A. Irvin, James M. Koch, Richard J. Mello, Everett K. Jenne, Samuel L. Barlaam, James V. Netzer, John S. Johanning, Robert E. Larrabee, Terry J. Wilson, Robert G. Koken, Duane J. Russell, Karen H. Harlan, Raymond S. Caruso, Paul J. Hilliard, John O. Hooper, Charles A. Hawthorne, Charles F. Cook, Mervyn C. Hoover, Jr., Carol M. Lettebvre, William A. Burns, Edwin E. Patterson, Mayer Freedman, Gordon R. Lowham, Reuben E. Nykawander, Alan G. Kirk, Belmont Frisbee, Jr., John M. Johnson, Sam D. Stanifer and Gary O. Erickson.

**TEST AND EVALUATION** — John C. DiPol.

**WEAPONS DEVELOPMENT** — Robert D. Berry, William H. Smith, Leona R. Walker, Charles H. Hill, James D. Ross, Dwayne I. Harms, William F. Ball, Rolf O. Gilbertson, Kenneth L. Trieu, Dale L. Christensen, Edward A. Teppo, Floyd S. Hall, Donald E. Walke, Allen E. Smith, Robert C. Battaglia, Harold F. Cummins, Kenneth S. Eder, John J. Murphy, Jr., Lorraine A. Gunther, Robert K. Page and Sharon R. Werle.

**SYSTEMS DEVELOPMENT** — Eric A. Lundstrom, Hal R. Jeffers, Wilene Y. Ditch, Jerry L. Macy, Richard G. Moe, Arnold A. Millne, Keith E. Clark, Donald W. Cooper, Lee E. Lakin, Jr., Bernard P. Wenzl, George F. Teate, Richard A. Schmitt, Markam F. Stenger and Larry E. Washam.

**TECHNICAL INFORMATION** — Helen W. Randolph, Maria O. Kochman, Florence A. Dinsmore, John D. Gerrard Gough, Barbara A. Neal, John E. Duncker, Gail L. Falkenberg, Snowden E. LaFon and Verna Lovik.

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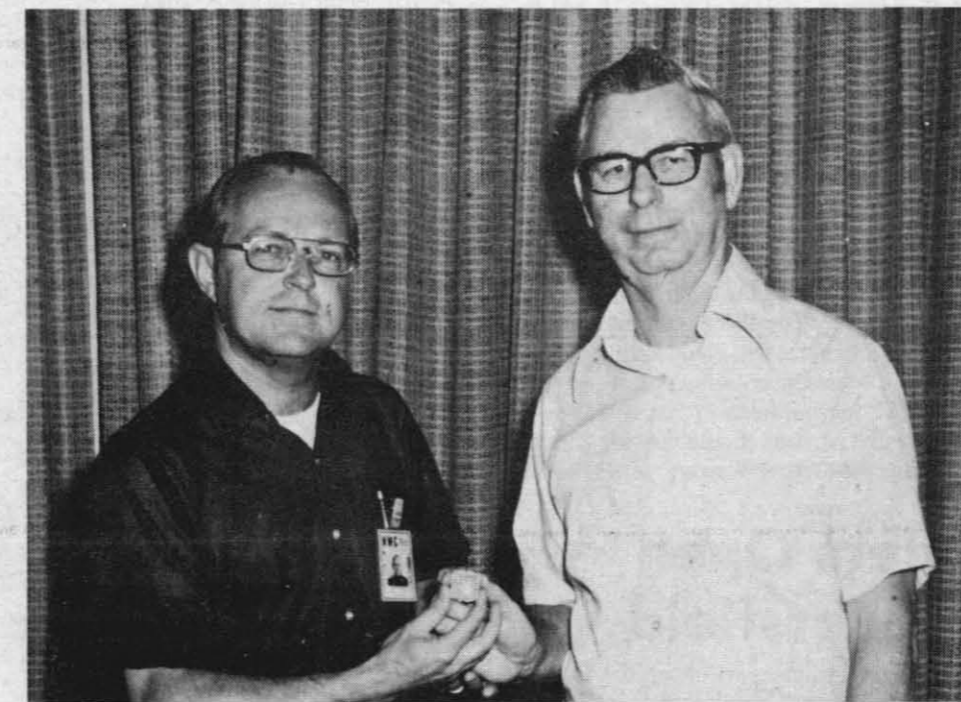
# Employees Honored for 30 Years of Federal Service



30 YEARS OF SERVICE — Verne C. Tracey (at right) an electronics technician in the Countermeasures Division of the Electronic Systems Department, was the recent recipient of a 30-year Federal service pin. The presentation to Tracey, whose three decades of Federal service include 20 years on active duty with the Navy, was made by Duane J. Russell (on left) his department head. Tracey has been at China Lake since 1966, when he came here from Edwards Air Force Base to work in the Engineering Department. —Photo by PH3 D. M. Jenereaux



THREE DECADES OF SERVICE — John Kleine and Nancy Glover (from left), and Eduardo Romero (r.), recently received 30-year Federal length of service pins from C. P. Smith, head of the Systems Development Department, at a ceremony in the department office. Kleine, who is head of staff for the department, was drafted into the Navy in July 1944, and stationed at NOTS, Inyokern. He has lived here for 29 years. Mrs. Glover began her Civil Service career in July 1944 at the Army Air Force Tactical Center, Orlando, Fla., as an artist illustrator. She came to work at China Lake in August 1952. Romero, who started his work career at Picatinny Arsenal, Dover, N.J., in July 1943, came to NOTS in January 1953 as an ordnance engineer for the old Test Department. He is now a general engineer for the Systems Development Department. —Photo by Maurice Dias



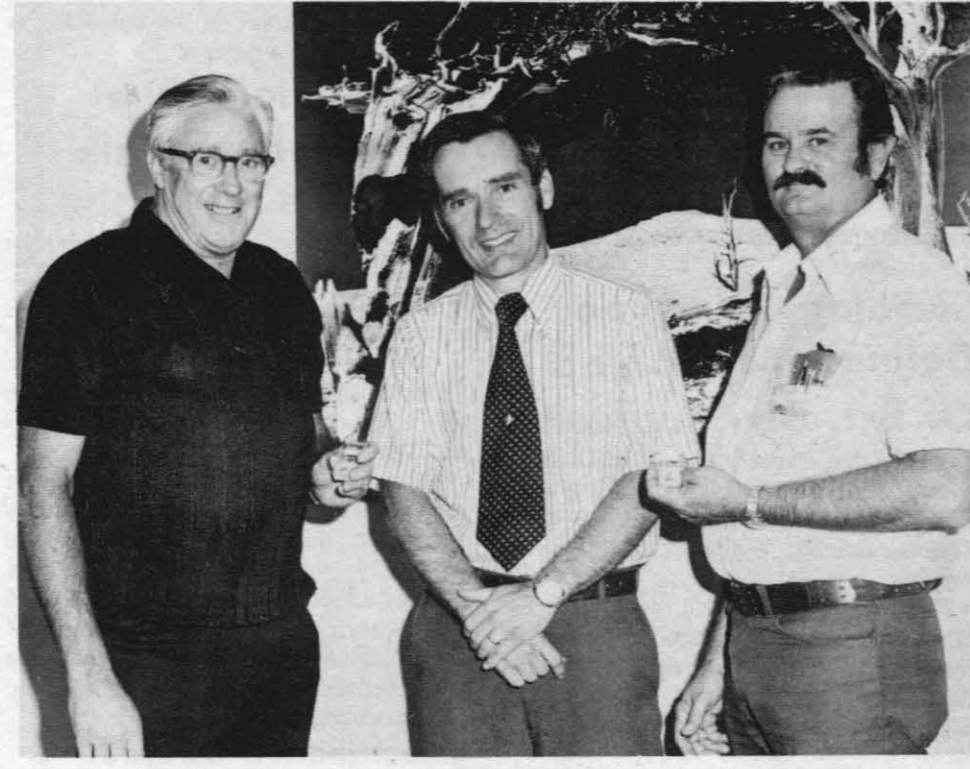
LONGEVITY RECOGNIZED — W. R. Hattabaugh (l.), acting head of the Test and Evaluation Department, presents a 30-year Federal length of service pin to Delbert J. Rollingson, who is employed in the Airborne Instrumentation Branch. Rollingson came to work at China Lake in 1946 after completing a tour of duty in the U.S. Army. He and his wife, Jean, live in Ridgecrest. Jean is employed in the Electronic Systems Department. —Photo by PH3 D. M. Jenereaux



RECEIVE 30-YEAR FEDERAL PINS — Earl R. Norman (l.) and Howard E. Auld (seated) were presented 30-year Federal length of service pins at a recent Code 31 ceremony. Norman has spent 24 years working for the Weapons Control Branch of the Surface Missile Department's Technology Development Division and Auld has been employed at the Naval Weapons Center for the past 29 years, two of which were as a member of the U.S. Navy. Present for the ceremony were (back row, l.-r.): Claude W. Brown, head of Norman's division; Gerald Miller, associate department head for programming; and Earl G. Love, (now retired), who was head of the Ship Counter-Measures Program Office, where Auld is employed. —Photo by PH3 D. M. Jenereaux



30 YEAR PIN PRESENTED — Sam Antrim (at right), a painter foreman in the Building Trades Branch, was congratulated recently by Cdr. J. L. Uhe, Acting Public Works Officer, during a ceremony in which Antrim received a 30-year Federal service pin. Antrim, who entered the Navy in January 1944, served a part of his active military service at what was then called the U.S. Naval Ordnance Test Station, Inyokern. Discharged from the Navy in June 1946, Antrim hired on here as a painter and has remained at China Lake ever since. Other Code 70 employees who also received 30-year Federal service pins (but are not shown in photo) are Joe Segler and Ed Knorr, from the Transportation Division. Segler came to NWC in June 1946 as an auto mechanic, and is now an inspector in Production Control. Knorr, who has retired, joined the Transportation Division as a driver in 1971. He worked at Pasadena for many years before transferring to China Lake.



30-YEAR MARK REACHED — D. J. Russell (center), head of the Electronic Systems Department, recently presented 30 year Federal service pins to Russ Little (on left) and Richard Wood. Little, now an administrative officer in the Shrike Standard ARM Program Office, began his service for Uncle Sam with a four-year hitch (1941-45) in the Army. He has been a Civil Service employee since 1948, when he went to work for the Bureau of Standards in Washington, D.C. After four years there, he transferred to Corona in 1952 and nine years later was among the large group of Corona Lab employees who moved to China Lake. Wood, a veteran of 22 years of active duty with the Navy, spent six months as a Post Office employee in Ridgecrest and another year as a security guard before joining what is now the Electronic Systems Department in 1966. An electronic technician, Wood is assigned to the RF Development Division's Missile Guidance Branch.

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