

Salary Pay Raises Announced For July

Classified (white collar) federal employees will get pay raises averaging 4.9 per cent July 1 and will range from 3 per cent in the first six grades to almost 9 per cent in GS-16, and then taper down to 7.0 in GS-17 and 3.7 in GS-18, because the law limits top classified pay to \$28,000, the Civil Service Commission has announced.

The first pay period, after July 1, which would be July 14, would be the day federal civil service employees at Naval Weapons Center would notice the monetary increase in their pay checks, according to a conservative estimate released by Center Finance officials.

Under the 1967 Udall Pay Act, the July 1 raises must erase half ("as nearly as practicable") of the lag between current federal rates and June, 1967, national average private rates — but with no increase less than 3 per cent.

The CSC and Budget Bureau will make final recommendations to the President as the second of three salary increases designed to make government pay rates comparable to those in private industry.

The raises are based on a Bureau of Labor Statistics study that compared federal and private pay rates for the period from February, 1966 to June, 1967.

The sliding-scale increases for government workers that go into effect automatically in July, 1968, are supposed to wipe out one-half of the pay lag between salaries paid by U.S. and those paid in private industry.

Federal employees will achieve full comparability with private industry's wage rates in a final pay raise set for July, 1969. That increase will be based on a BLS study of salaries paid in private industry from July, 1967, through June 1968.

The three-step pay raise was signed by President Johnson last December. The first raise of 6 per cent for postal workers and 4.5 per cent government white collar employees was retroactive to October, 1967.

The classified pay rates, effective July 1, 1968, for GS-1 through GS-18 are listed in the pay rate chart below.



LCDR. RICHARD L. PERKINS of Baldwinville, New York, has recently come aboard the Center. Commander Perkins attended the U.S. Navy Postgraduate School in Monterey, Calif., and received his B.S. there. He has received several military decorations including the Good Conduct Medal and the World War II Victory Medal. Perkins and his wife Wyona presently reside on the Center with their two children Dwight, 18 years, and Donna, 15 years.

CLASSIFIED PAY RATES, EFFECTIVE JULY 1, 1968

	1	2	3	4	5	6	7	8	9	10
GS-1....	\$ 3,889	\$ 4,019	\$ 4,149	\$ 4,279	\$ 4,408	\$ 4,538	\$ 4,668	\$ 4,798	\$ 4,928	\$ 5,057
GS-2....	4,231	4,372	4,513	4,655	4,796	4,937	5,078	5,219	5,360	5,501
GS-3....	4,600	4,753	4,907	5,060	5,214	5,367	5,521	5,674	5,828	5,981
GS-4....	5,145	5,316	5,487	5,658	5,829	6,000	6,171	6,342	6,513	6,684
GS-5....	5,732	5,924	6,115	6,307	6,498	6,690	6,881	7,073	7,265	7,456
GS-6....	6,321	6,532	6,743	6,955	7,166	7,377	7,588	7,799	8,010	8,221
GS-7....	6,981	7,214	7,447	7,680	7,913	8,146	8,379	8,612	8,845	9,078
GS-8....	7,699	7,956	8,213	8,470	8,727	8,984	9,241	9,498	9,755	10,012
GS-9....	8,462	8,744	9,026	9,308	9,590	9,872	10,154	10,436	10,718	11,000
GS-10....	9,297	9,607	9,917	10,227	10,537	10,847	11,157	11,467	11,777	12,087
GS-11....	10,203	10,543	10,883	11,223	11,563	11,903	12,243	12,583	12,923	13,263
GS-12....	12,174	12,580	12,986	13,392	13,798	14,204	14,610	15,016	15,422	15,828
GS-13....	14,409	14,889	15,369	15,849	16,329	16,809	17,289	17,769	18,249	18,729
GS-14....	16,946	17,511	18,076	18,641	19,206	19,771	20,336	20,901	21,466	22,031
GS-15....	19,780	20,439	21,098	21,757	22,416	23,075	23,734	24,393	25,052	25,711
GS-16....	22,835	23,596	24,357	25,118	25,879	26,640	27,401	28,162	28,923*	
GS-17....	26,264	27,139	28,014*	28,889*	29,764*					
GS-18....	30,239*									

*Actual rate will be \$28,000.

SHOWBOAT

FRIDAY MARCH 29
"TWO WEEKS IN SEPTEMBER" (96 Min.)
Brigitte Bardot, Laurent Tierzieff
7:30 P.M.

(Drama) Parisian model seeks a true romance in London and meets a handsome geologist as her previous lover tries to get her to return to him. (Very Adult.)
Shorts: "Woody Freelander" (7 Min.)
"Duck Fever" (10 Min.)

SATURDAY MARCH 30

—MATINEE—
"RHINO" (124 Min.)
1:00 P.M.
Shorts: "Terror Faced Magee" (7 Min.)
"Manhunt" No. 5 (13 Min.)

—EVENING—
"EIGHT ON THE LAM" (106 Min.)
Bob Hope, Phyllis Diller
7:30 P.M.

(Comedy) What does a widower bank teller (with seven kids and an oversize dog) do with 10 one-thousand dollar bills he's found? And then his accounts are found to be short! The zany cast makes this the wackiest Hope ever! (Adult, Youth, Children.)
Short: "Sky Trooper" (7 Min.)

SUNDAY-MONDAY MARCH 31-APRIL 1
"THE PRESIDENT'S ANALYST" (103 Min.)
James Coburn, Joan Delaney, Godfrey Cambridge
7:30 P.M.

(Comedy/Drama) This free-wheeling spy spoof has Coburn selected as the titled analyst who, because of his knowledge, is the target of every foreign agent. A mad madcap of satirical comedy, politics, psychology and sex. (Adult, Very Mature Youth.)
Short: "Tired and Feathered" (7 Min.)
(Roadrunner)

TUESDAY-WEDNESDAY APRIL 2-3
"ENTER LAUGHING" (110 Min.)
Jose Ferrer, Shelley Winters
7:30 P.M.

(Comedy) Broadway play tells of a would-be actor and his humorous attempts to over-ride his mother's desire for him to be a pharmacist as he stumbles through his debut. Situations and complications make dramatic fun. (Adult, Youth, Very Mature Children.)
Short: "Hocus Pocus Powwow" (7 Min.)

THURSDAY APRIL 4
COMMUNITY CONCERT PRESENTATION
8:00 P.M.

FRIDAY APRIL 5
"THE LONG DUEL" (115 Min.)
Yul Brynner, Trevor Howard
7:30 P.M.

(Adventure) All the action, color and intrigue of India burst forth on the big screen as Yul leads his band in opposition to the British forces. Here are mortal enemies by status, but with common interest. Gunga Dini (Adult, Youth, Children.)
Short: "Please, Not When I'm Putting" (9 Min.)

Original German Band

The original German Band, "The Musetters" are returning to the Naval Weapons Center CPO Club, Friday, April 5, for German Night.

They will be playing, beginning at 8:30 p.m., under the leadership of Duane "Odie" Odembritt for the festive occasion.

'Barefoot in the Park' Opens Here Tonight at 8:15

"Barefoot in the Park," one of the American stage's most popular and successful recent offerings, will open the 1968 season of the Community Light Opera and Theatre Association tonight at the Murray School.

CLOTA's "Barefoot in the Park" is directed by Ed Romero, assisted by Ken Stephens. David Chapman is the technical director, and set decoration is by Hope LaCombe.

Flo Gerrish and Herb Childers play the newlyweds, Renee Gier is the mother of the bride, Mrs. Banks; David Sepich is the continental roofer, Victor Velasco; Gerald Baker comes on the scene as the telephone repairman, and Enoch Nicholson portrays the old-before-his-time deliveryman.

"Barefoot in the Park" will run again tomorrow evening at 8:15, and next week on Thursday, Friday and Saturday evenings.

Tickets, at \$1.75 for adults, are on sale at the Gift Mart, the Medical Arts Pharmacy, the Center Pharmacy and from cast members, as well as at the door. Children's tickets, at \$1.25, will be at the door.

Auxiliary Ready To Examine Craft Tomorrow, Sunday

Members of the Coast Guard Auxiliary Courtesy Examination Team (Flotilla 76) will be at the Bank of America parking lot, Naval Weapons Center from 8 a.m. to 4 p.m. tomorrow and Sunday, to help boat owners prepare their boats for summer use.

Off Center boat owners are invited to bring their boats for the "free" examination. Passes to the Center may be obtained at the Main Gate where they will be countersigned by a member of the flotilla.

Examiners will check the condition and number of fire extinguishers, life saving equipment, lines, lights, and anchors for various classes of boats. They will also check condition of fuel storage aboard, cooking equipment and for adequate ventilation in closed spaces (where gasoline fumes can settle to cause explosion).

No charge is made for this service. Flotilla examiners can issue a decal for each boat which meets the Auxiliary standards. Coast Guard and state law enforcement officials do not normally board any craft displaying the Auxiliary decal.

From _____	STAMP
TO _____	

Laser Rangefinder Readied For Advance in Range Data



Fri., Mar. 29, 1968 Naval Weapons Center, China Lake, California Vol. XXII, No. 13



ONE-SITE SOLUTION BY LASER — Laser rangefinder project engineer Gary Kvammen checks receiver of laser unit mounted on new high-speed mount at Tower 11, G-2 Range. Harry Devereaux (right) is project engineer on mount. With tracking error detector device for elevation and azimuth data and to drive mount, entire system will be called Automatic Cinetheodolite, a "first" for Naval Weapons Center.

To Be One of Three Main Elements in First Automatic Cinetheodolite

BY JOHN McCABE

A "single site solution" for the Naval Weapons Center's complex and hardware-laden ground range target tracking requirements may be in the offing — with the amazing laser the key element.

Dr. J. L. Thompson of Systems Development Department's Instrument Development Division has been actively engaged in working up the concept of a high-performance laser rangefinder for range data acquisition since 1965. Now, in the hands of Code 3041 physicist Gary Kvammen, a workable laser rangefinder is nearly completed.

The rangefinder will be one element of the Center's first Automatic Cinetheodolite, a project under the direction of Richard O. White, of Code 3041. The other elements are the Tracking Error Detector, a recording camera with a 200-inch lens (for the time being), the mount itself, and shaft angle digitizers.

At present, data from airborne systems tests is recorded on photographic film with Askania Cinetheodolite and camera mounted on M-45 tracking mounts, most of them in domes strung out along the G-1 and G-2 Tower Roads. There are 48 of these in all, including four at Randsburg Wash.

The Tower 11 G-2 installation has been set up to provide an experimental field site to enable department personnel to carry out experiments and collect test data during actual tests.

At Tower 11 on the G-2 road, Gary Kvammen's laser rangefinder, the new Photo Sonics mount (now being called

brated by project engineer Harry Devereaux, Code 3032 and Code 3063 personnel and the tracking error detector) in the hands of Robert J. Stedman, Code 3041 are being assembled into the Automatic Cinetheodolite System. Kvammen expects the laser rangefinder, along with the entire system, to undergo initial dynamic tests in early April.

A laser (light amplification by stimulated emission of radiation) rangefinder for use here at the Center has been in development since 1965, and Gary Kvammen has been working with special, one-of-a-kind components to build a working model since he headed up the project in September, 1966.

The core of the device is the transmitter, which produces the laser pulse, supplied by TRW Systems, Inc. It uses a ruby rod, in which the brilliant, highly concentrated and short-pulse light is generated. Cooling problems may have been satisfactorily answered by a new development — a segmented rod, allowing for water to circulate over an increased surface area of the rod. The rod is supplied by Autonetics, Inc. of Anaheim.

"It looks like the laser is going through the same kind of transition as radar did in the '40's," says Kvammen. "On this and other applications, we've gone up blind alleys, refined our methods slowly, made our own components and generated our own data where none has existed. Catalogued parts are just now beginning to be produced by industry."

Kvammen's laser transmitter features an improved "Q-switch," which provides for a

(Continued on Page 3)

China Lake Girl Is First Entry In Miss Ridgecrest-China Lake Pageant

BY BUDD GOTT

A China Lake girl, Deborah "Debbie" Ann Peters is the first entrant in the 1968 Miss Ridgecrest - China Lake Pageant, co-sponsored by the China Lake Community Council and the Ridgecrest Chamber of

Commerce, announces Dick Hitt, pageant coordinator.

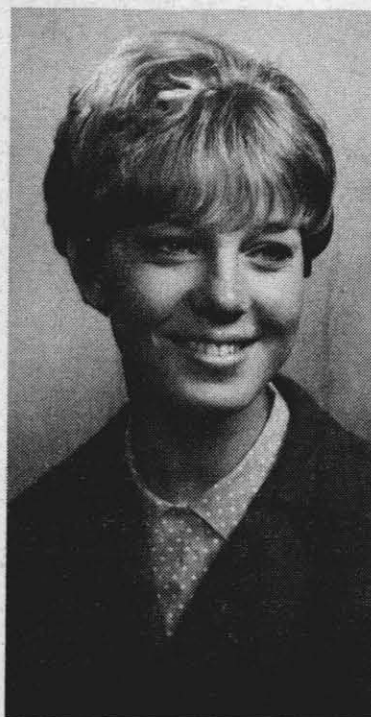
Like last year's winner, Wendy Sorensen, Miss Peters is a junior at Burroughs High School. Miss Sorensen went on to win the title of Miss Kern County and will compete for the title of Miss California at Santa Cruz in June.

Miss Peters, a statuesque 5 ft. 8 in., (38-25-36), blond, has entered the pageant as "Miss Ace TV" under the sponsorship of the local business firm headed by Jim Poore.

The 17-year-old green-eyed beauty is the daughter of Master Chief and Mrs. Ray M. Peters, 38-A Hayward Ave., China Lake. The Peters came to the area in April of last year. Chief Peters is assigned to the Supply Department.

Miss Peters was born at Port Hueneme and attended San Diego's Kit Carson Elementary School, Einstein Junior High, and Madison High. She is the eldest of four children, Curtis Ray, 15, is a freshman at Burroughs High; Edward Lee,

(Continued on Page 3)



DEBBIE PETERS

AAIA To Hear Environment Talk At Meeting, Wed.

Howard Schafer of the Propulsion Development Department will be the speaker at the next luncheon meeting of the American Institute of Aeronautics and Astronautics at the Officers' Club on April 3.

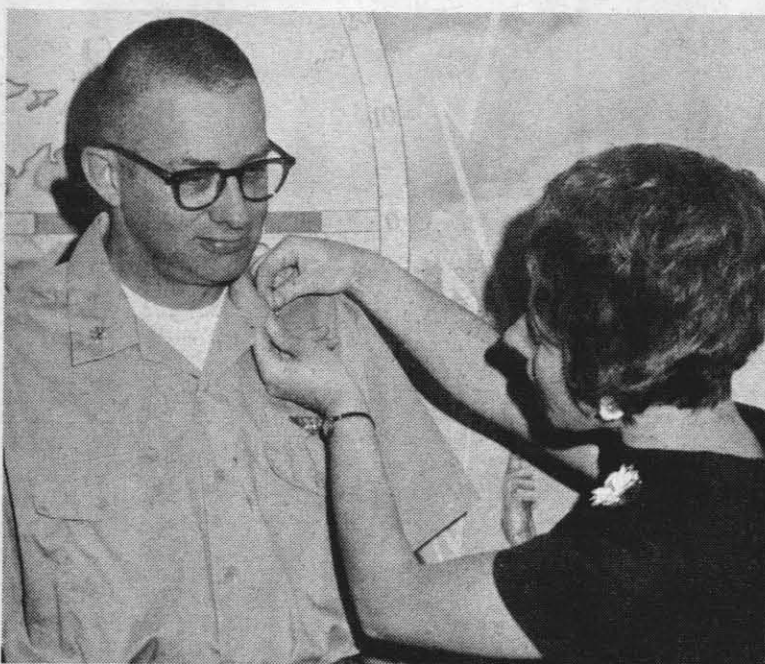
His subject will be "Determining the Engineering Foundation for Engineering Design Criteria." A project to investigate this problem started in 1959 and has reached from Alaska to Panama and Thailand.

The environment of any article, whether civilian or military, must be considered during the design stages, Schafer points out. Naval ordnance items, in particular, are subject to a wide range of usage in land, sea and air and in all kinds of climatic conditions, so the engineer must have a working knowledge of the "universe of use" of the weapon under consideration.

All AAIA members and others interested are invited to attend this meeting. Further information may be obtained from AAIA Chairman Fred Zarlingo of the Propulsion Development Department.



THE BOSS DOES THE HONOR — Capt. F. R. Walsh (l) NWC Technical Officer, has the distinguished honor of presenting his secretary, Mrs. Al. J. Kowalsky (ella) a 20-year Federal Service Pin. Mrs. Kowalsky has worked at China Lake since March 15, 1948, and has been in her present position for the last five years. Her husband is assigned to the NWC Engineering Department (Code 55).



HELPING HAND UP — Cdr. August M. Wildberger, Military Assistant for Systems Development Department, has his new silver leaf pinned on by his wife Elizabeth in recent promotion ceremonies. Cdr. Wildberger works in electronic countermeasures at Code 30, and has served here since the summer of 1966. He is a graduate of Johns Hopkins University in Baltimore (M.S. degree in math) and of the Postgraduate School in Monterey (M.S. in math.) The Wildbergers make their home at 713 Kearsarge in China Lake, with their five children.

Maturango Museum Appoints Downing To Serve on Board of Trustees

Robert T. Downing, China Lake, has accepted an appointment to complete the unexpired term on the Maturango Museum Board of Trustees of Kenneth D. Miller, who has resigned after more than six years of continuous service.

While this is Downing's first stint as a trustee, he has served the museum board and staff for many years.

Sylvia Winslow and her husband "Slim" first introduced Downing to the hunting of ancient Early Man artifacts in May of 1960. As he takes over his new duties with the museum, Downing states that "Playing historical detective and photographer while helping the experts as they unravel the historical geology which affected the lives and wanderings of Early Man has become the most exciting thing in my life."

The new trustee has been assigned to the Archaeology committee and also to the re-

CHAPLAIN'S MESSAGE

The Greatest Raw Deal . .

CHAPLAIN JUDE R. SENIEUR



No one likes to admit he has made a mistake.

We find ourselves getting angry when faced with our faults. Even when we KNOW we are wrong, we tend to defend ourselves and search madly for excuses. Eventually we get around to declaring that we were given "A Raw Deal!" We explain to ourselves (no one else will listen) that others did the same thing and are going "scot free." We just got a "Lousy Break!"

But in spite of the "Raw Deal" and the "Lousy Break" we know within ourselves that we DID "goof" . . . perhaps not exactly as we are accused . . . but we did make a mistake. We did break a law. We ARE guilty!

A couple thousand years ago a Man died on a cross. He "made a mistake." He was "given a raw deal," and really "got a lousy break." He groaned a little, sweat blood, and fell flat on his face a few times. But He didn't complain. He KNEW what He was doing and WHY He was doing it.

The "mistake" He made was to love a crowd of sinners who betrayed His love in a fit of passion. He was dealt the world's greatest "raw deal," when they couldn't even agree on a crime with which to accuse Him, much less prove anything against Him.

"I find no guilt in this Man" was the decision of the judge, who immediately turned around and put Him into the hands of executioners. And what a "lousy break" He got!

There wasn't a soul there with "guts" enough to speak up and defend Him. He was alone in the world He came to save. His mother stood by Him, but she could do little more than suffer with Him. A thief, hanging on the next cross, who had nothing to lose, defended the innocent Man. But no one cared to listen to a dying thief.

This innocent Man did not defend Himself because He was not dying for Himself. He was dying for US and in us there was plenty of guilt. Even nature revolted at such a "raw deal."

Lightning and thunder cracked and rumbled over the countryside as the innocent Man dropped His head in death.

The Roman duty officer openly declared "the lousy break" as he shouted "Indeed, this WAS the Son of God!"

Fortunately for us, this Man, Jesus Christ, the Son of God, did not defend Himself. He did not try to "get out of" His suffering and death. Through His cross we have a new chance to live and love and be happy. His love for us has opened the way to true love. He has shown us the way and won for us the opportunity to live that way to peace and happiness.

But we are not FORCED to take His way. We are only invited!

If we ignore His way, if we refuse to accept the invitation, we are setting ourselves up for a "lousy break" and giving ourselves the greatest "raw deal" of our life . . . when by our own choice we fail to live and love and find happiness!



The Rocketeer

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PROMOTIONAL OPPORTUNITIES

Present Center employees are encouraged to apply for the positions listed below. Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

The positions described here are effective from March 29 to April 5, 1968.

Branch Head, Solid Propellants Branch, GS-13 or 14, Code 4572 — A chemist or chemical engineer who will be responsible for the technical, administrative and management aspects of a branch engaged in applied research and development of solid propellants and related chemical materials used in propulsion systems. The branch is currently involved in programs such as propellant binders, propellants for air-augmented systems, high energy propellants and a propulsion technology program. File applications for the above with Jan Bixler, Bldg. 34, Rm. 24, Phone 72723.

Supervisory Medical Clerk (Typing), GS-301-03 or 04 (One vacancy), Code 88 — This position is located in the Administrative Division of the Medical Department. The incumbent's primary duties are to refer incoming patients and others reporting to the Center Hospital, make doctor appointments, instruct Navy Hospital Corpsmen in preparing and maintaining records, receive reports and reports and maintain the files of the treatment records of all the civil service employees and dependents of military personnel.

Supply Clerk (Typing), GS-2040-03 (One vacancy), Code 258 — Controls release and movement of stock through analysis of IBM listings. Orders stock, ensures that excess stocks are not accumulated and takes immediate action to dispose of such excesses as do develop; makes proper substitution of stock material.

File applications for the above with Vicki Mead, Bldg. 34, Rm. 28, Phone 72218.

Inspector (Heavy Duty Equipment Repair) JD No. 72-1, Code 524 — Inspects for and describes malfunctions of such heavy type gasoline and/or diesel powered equipment as tractors (crawler and wheel types), road grading equipment, cranes, fork lifts, railway locomotives, earth moving equipment and attachments for such equipment. (Qualifications) "Applicants must have had four years of progressively responsible experience in the inspection of a variety of heavy-duty gasoline and diesel-powered mobile equipment to determine needed repairs and maintenance.

File applications with Dora Childers, Code 657, Room 32, Phone 71393.

Mechanical Engineer GS-830-11 or 12, PD No. 555061-1, Code 5524 — The position is that of Mechanical Engineer in the Electro-mechanical Division, Engineering Department. The incumbent is responsible for the design and/or production engineering redesign, test, documentation, and evaluation of mechanical components and/or assemblies which improve the productivity, ease of use, age, conservation of electrical power, and improves the performance and the reliability of miniature inertial systems of advanced guided missiles. The incumbent must have a Bachelor of Science degree in Mechanical Engineering.

Electronic Engineer (Instrumentation) GS-855-11 or 12, PD No. 755066, Code 5533 — This position is that of Senior Project Engineer, in the Telemetry Branch, Product Design Division of the Engineering Department. The incumbent's general assignment is the design, development, testing, evaluation, documentation and monitoring of procurement of telemetry units for this Center. The spectrum of duties entailed by this assignment ranges from original design to production liaison with the manufacturer.

General Engineer, GS-801-13, Code 5571 — This position is located in the Sidewinder-Chaparral Systems Office, Engineering Department. Incumbent will be responsible for fulfilling various duties assigned by the Sidewinder-Chaparral Program Manager. The project engineers are responsible for various aspects of the program such as the guidance-control groups, missile components, auxiliary equipment, support functions, etc. The incumbent must have a Bachelor of Science degree in Mechanical or Electronic Engineering and a minimum of six years experience in design, development or testing of missile systems or related fields.

File application for above with Fawn Haycock, Bldg. 34, Rm. 34, Phone 71514.

Electronics Technician, GS-5, 7 or 9, (Two vacancies), Code 3024 — These positions are located in the Electronic Warfare Branch. Duties consist of: maintaining, modifying and operating radar and/or Digital Display Equipments involved in the operation of the Electronic Warfare Complex at the Randsburg Wash Test Range.

File application for above with Fawn Haycock, Bldg. 34, Rm. 34, Phone 71514.

The purpose of this ad is to announce an Amendment to Announcement No. NWC-1Va-9(68) Foreman (Leadman) Refrigeration & Air Conditioning Mechanic under description of work and to extend the closing date from April 1 to April 8, 1968.

Protestant—(All Faith Chapel)—Morning Worship—8:15 and 11 a.m. Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Center Restaurant.

Roman Catholic (All Faith Chapel)—Holy Mass—7, 9:30 a.m., and 12:30 p.m. Sunday.

Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m.

Sabbath School—10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship—(Chapel Annex, 95 King Ave.)—Sunday, 7:30 p.m.

'DESERT PHILOSOPHER'

Conservation . . . Everybody's Business

By "POP" LOFINCK



The hunting and fishing season will soon be here, so we can start getting our psychic set for conservation of the beauty of the landscape — which is definitely a national natural asset.

California recently received a National Award for Hunter Safety, presented by the National Rifle Association for the fourth consecutive year. Bravo!

It is conceivable that California might be entitled to some kind of an award for conservation of the beauty of the wilderness. Of course, conservation of beauty cannot be reduced to terms of statistics such as those reflected in a safe hunting program, but rather it is based mainly on personal opinions.

Many people who are seemingly quite normal in the city behave like barbarians in the wilderness. They scatter cans, bottles, and garbage around the camp site, the type of trash which should be buried.

Some of these wilderness barbarians, who would never think of scattering refuse and other junk in their front yard, seem to lose all sense of perspective and consideration for others when in a far-away camp area.

There are laws for such negligence, but many people seem to be able to break these laws without having to suffer the consequences. Shame on them! It's a matter of habit and a mental attitude.

We should all be missionaries for conservation, to help maintain the beauty of our countryside. If you observe such negligence, call the offenders attention to it — in a nice way, of course. This approach is more effective than a strut and swagger bravado.

Only dead trees or limbs should be used for camp fires and these fires should be extinguished with dirt, sand or water before leaving the area.

Streams and lakes should not be polluted.

Understanding of these regulations can be made clear through the dedicated efforts of private citizens. After all, this wilderness is yours too. The Wildlife Conservation Board, California Department of Fish and Game (DFG) is very active — they work at it all the time. Bravo! Also active in this program is the U.S. Bureau of Land Management and the Forest Rangers.

It takes conservation education. Progress is being made year after year. Join the crusade for conservation and "Learn to Live with Nature."

Incidentally, the China Lake Naval Weapons Center, in cooperation with DFG, strictly enforces hunting regulations on such week ends as the public is permitted to hunt on the North Range of the Center.

When the China Lake base was first established, station personnel cut truckloads of Christmas trees from the Pinyon Pine forest in the North area. The command put a stop to that. Now at Christmas time people buy trees from the Boy Scouts. The trees are grown on commercial tree farms especially for this purpose.



ASSISTANT CHIEF VISITS CENTER — RADM. Frank B. Voris (I), Assistant Chief for Research and Military Specialties, Navy Bureau of Medicine and Surgery, Washington, D.C., greets an old friend, Capt. E. J. Jaruszewski, Naval Weapons Center Medical Officer. During his one-day visit here, Admiral Voris received a briefing on the Chemical and Biological Weapons Program by members of Code 4036. He also toured the Medical facility at the Center and conferred with Capt. M. R. Etheridge, NWC Commander, and Capt. R. Williamson II, NWC Executive Officer. Admiral Voris and Captain Jaruszewski graduated together from the University of Illinois Medical School.

THE LOCKER ROOM

Run for Whom?

By ED RANCK

Of all the many semi-traumatic experiences that dog the path of the average person, there are two or three discoveries that probably affect 95 percent of the American male population. Although few will admit that they spend a lifetime brooding about it, there comes a time when most of us realize that we aren't going to become rich and famous or that Metro isn't going to call when John Wayne decides to hang up his lasso.

BEING SENSIBLE

Being sensible human beings, most of us take a look at the problem and then deny that it exists. The fact that most of us pretend to regard the endowments of wealth, fame or physical attractiveness with utter disdain is evident in that we just don't envy anyone who possesses these gifts.

For instance, no one wants to be rich because money: (a) can't buy happiness and; (b) it breeds ulcers. Fame is usually followed by an old age of loneliness and disillusion, and who wants to spend their last few years on the funny farm reading musty old press clippings? As for the physical fitness nuts, we certainly don't want to look like the guys whose picture is on the cover of magazines like "Strength and Health." We all know that these people are so muscle-bound that they can't tie their own shoe laces, and anyhow, all that muscle turns to fat when they quit lifting weights for a few days.

Fame and fortune, of course, are out of the reach of most of us but that third outrage to our sensibilities, physical fitness, seems to be fashionable these days. Just why this has taken place is unknown, but something has happened in the last few years to make many men conscious of their overall muscle tone, or lack of it.

BEWARE OF WARNINGS

Possibly the warnings of lung cancer and heart disease has had something to do with it. It could have been those cheerful pictures that have been published showing what cholesterol does to the arteries. It could have been the fact that the Russians were about to pass us in the Olympic competition.

Even that monument to American culture and creativity, the TV commercial, probably had something to do with it. The commercial a few years ago that showed a 6'4", 220 pound American male being spoon fed because he had a tummyache may have been the last straw. Whatever the reason, Americans are once again on the road to physical fitness.

The primary method that is being used to attain fitness is running and callisthenics, with the accent on running. It has apparently been proven that running is the best conditioner of all known exercises. Such programs as the one that was set forth in the March issue of Reader's Digest have become popular, and in recent years several clubs, notably the Run For Your Life group have come into being.

Our purpose here, however, isn't to talk about physical fitness, but to find out why so many men are getting interested in a fitness program. We think that CWO Bill Driscoll of Camp Pendleton has found the answer, and we would like to quote part of his recent column published in the Pendleton "Scout."

Sex appeal, says Webster, is "The physical attractiveness and personal charm that attracts members of the opposite sex." If you are a brown-bagger over 35, you may be unwittingly succumbing to FSA (Fading Sex Appeal). The symptoms are subtle but unmistakable. The belt seems to have shrunk. The collars are too tight. Under the eyes it looks like the belly of a dead fish. The eyes themselves are psychedelic in design. Breath is more precious now that you have less of it. Your wife is becoming more businesslike with you. The girls don't look back.

This is very bad, and it can get worse. But it can be stopped. People all over the country are forming Run For Your Life Clubs, and out on the highways funny little groups of odd-shaped men are jogging around, prolonging their lives and making them more worthwhile.

RUNNING — THE TRICK

Running, coupled with a sensible eating plan, really does the trick. In no time at all the groups jogging around no longer look funny and odd-shaped men are looking the way they want to look. We would like to suggest a Run For Your Wife club, composed of military, retireds and civilian workers alike. Granted your life is your most important possession, but isn't your wife right up there too? She'd rather (with possibly a few exceptions) have you than your insurance, and she'd no doubt like to have you looking better. It's human nature.

It could lead to big things. Maybe the wives would form an auxiliary. What it takes now is for enough people to rise to the occasion. Who knows? Maybe the girls will start looking back!

So now we have found the answer. Exercise is a great way to stay healthy, but more important it helps you to get girls. So the next time you look at the cover of a health magazine, instead of sneering at the guy with the big muscles, take a look at the cupcake hanging from his left bicep. A few months in the gym and you can have one of your own.

Tennis Lessons Sign-Ups Set For Tomorrow

Registration for the China Lake Tennis Club's annual Lifetime Sports tennis lessons will take place tomorrow morning on the China Lake courts behind the Gym — or in the Gym if the weather is inclement.

The series of six Saturday lessons is to begin next week, April 6, at 8:30 a.m., weather permitting.

No experience in tennis is needed for the lessons, and anyone "8 to 80" in age may come for registration. The learners are to be divided into small groups according to ability, and instructors will teach each group.

Enrollees should provide their own sneakers. Special Services will provide rackets for those without them, and the Tennis Club will provide balls. Fee for the six-consecutive-week course is \$2.50.

Those who can't be at the registration tomorrow morning should call Joan Bustard of the Club at Ext. 723314.

Local Bowmen Plan Archery Youth Program

China Lake Bowmen and Youth Activities will sponsor an Archery Program to prepare young bowmen for competition in the National Archery Association Junior Olympic Archery Program, with which the China Lake Bowmen are affiliated.

Bows, arrows and other necessary equipment will be provided. Participants in the Program will be afforded the opportunity of competing locally and nationally as well as in Mail Matches.

Any youngster aged 9 through 18 who is interested in the Program should sign up at the Youth Center or phone Extension 72909.

Wildflower Show

Mrs. Roderick M. McClung, business manager for the 1968 Wildflower Festival, announced this week that dates for the event have been changed.

The festival now will be held April 27 and 28, instead of May 4 and 5, as originally scheduled. Hours will remain the same: from 1 to 9 p.m. Saturday and from 10 a.m. to 6 p.m. Sunday.

Volleyball Final . . . Standings

	W.	L.
Vampires	25	1
Redbirds	20	7
P & A	16	11
Hospital	16	11
Gengo	14	13
Half Fast 6	12	15
Maladroit	10	17
KAOS	8	18
Code 12	7	20
Code 605	6	21

LAST WEEK'S RESULTS

Gengo—15, 17, 13	Maladroit 2, 15, 15
Hospital—7, 15, 13	Redbirds—15, 11, 11
Half Fast 6—15, 4, 15	KAOS—5, 15, 11
Vampires—15, 17, 13	P & A—12, 6, 15
Code 12—18, 8, 15	Code 12—16, 15, 11

Ed Albright's 200-Plus Games Tops Keglers in Fast-Paced Lane Action

Ed Albright put together three 200-plus games to top all bowlers at the China Lake alleys last week. Bowling in the Midway League, Albright had games of 213-243-207 for a fine 633 series. Will Osborne also broke the 200-mark in each game, hitting 204-230-200 for a 634. Bob Owens had games of 200 and 222 enroute to a 603 series. High single game honors went to Doug Cobb with 253, while Chuck Newmyer and Fred Dalpiaz hit 224 and

222 respectively. Other 200's included Walt Smith with 211, and Dan Herrington with 206.

High Game For Zurn

Tom Zurn rolled high game and series in the Mixed Four-some, putting together games of 203-257-191 for a 651. The 257 was high single game at the local alleys last week. Fred Dalpiaz was second among the mixed league bowlers, rolling 230-225-181 for a 636. Maggie Branson led the ladies with 189-179-192 for a 557 series. Other 200-plus games included Dan Branson, 231; Jack Leininger, 211; George Barker, 208, and Chuck Cutsinger, 205.

Bantam Boys League

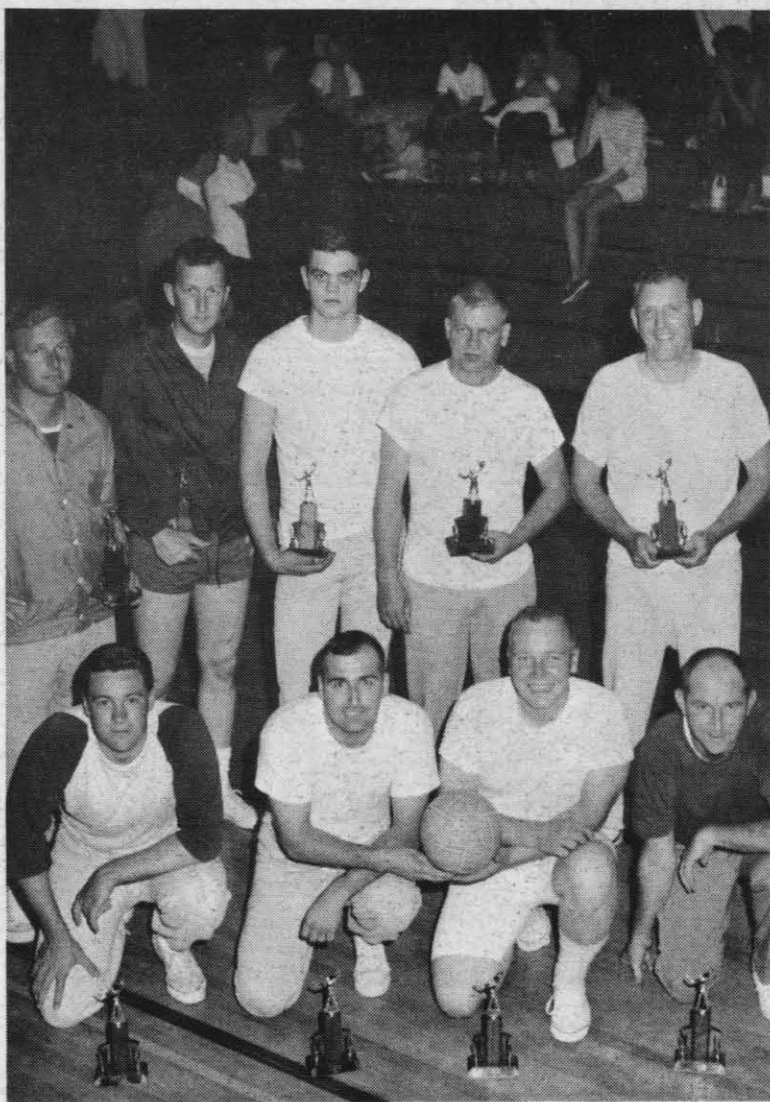
In the Bantam Boys League, David Schad and Randy Stedman took most of the honors. Bowling in the seven - nine year old age group, David rolled a 146-147, while Randy had 172-455 in the 10-12 age group.

Jerry Halpin rolled 100 pins over his season's average in posting a 245 to lead the Desert League. Benny Whiteside had second high game with 243 and high series with 632.

Women's Handicap

In the China Lake Women's Handicap League, Pat Maddox led the way with 178-200-209 for a 587. Liz Furstenberg was second with 549, while Peggy Bell rolled a 508. Val Stromer led the Women's Scratch League with 202-526, while Charlotte DeMarco had 205-517. Marlyn Huke had high game with 208. The Thursday Afternoon Trio led the way with 188-494.

Experts Show Trophies



VAMPIRES: VOLLEYBALL CHAMPS—In spectacular play against P&A's nine in the Gym last Thursday, March 21, these Vampires finished the season with a 25-1 record to top the league. The Redbirds followed them to the finish with a 20-7 mark for second slot. Vampire players are (front, l-r) Roy Deland, Jim Mehrman, Rich Simmers, Tom Grawrock and (standing, l-r) Ted Cline, Ed Ranck, Denny McGaw, Den Dukeshire and Gabe Imer.

VX-5's Mission—Develop Day, Night, All-Weather Tactics, Important Job

(Continued from Page 5)
cies; when the item is ready, make recommendations for service use; report results of the OPEVAL; and provide operational applications, tactics, and recommendations for best use.

Bibles of the Fleet

Although providing necessary information of immediate need to the fleet, the AEN's are only interim publications; Tactical Manuals are the bibles of the fleet.

In conjunction with the NATOPS Manual, the TACMAN provides all information needed by the pilot to accurately deliver his ordnance. The TACMANs contain complete weapon fuzing information, sight settings, enroute tactics, and ECM information. They are reviewed and updated twice a year, with interim message changes promulgated as necessary. VX-5, under Commander Operational Test and Evaluation Force, has complete responsibility for the A-4, A-6, and A-7 TACMANs, as well as the Air-to-Ground and Enemy Defenses Sections of the F-4 Manual. Information initially published in an AEN is included in the appropriate TACMANs during the semi-annual update.

Questions With Answers

VX-5 Project Officers are frequently queried by fleet personnel for answers to technical questions, as well as other questions related to the attack mission. To help answer these questions and to enable rapid dissemination of current information throughout the fleet, VX-5 publishes a monthly newsletter.

"The BAT BULLETIN," has been well received as indicated by the volume of fleet response. The BAT BULLETIN, periodic trips to WESTPAC, attendance at Air Wing debriefs, and arrival of reporting personnel assigned directly from fleet squadrons enables VX-5 to be in constant contact with the fleet, to know fleet problems and needs, and to respond as quickly as priorities and assets permit.

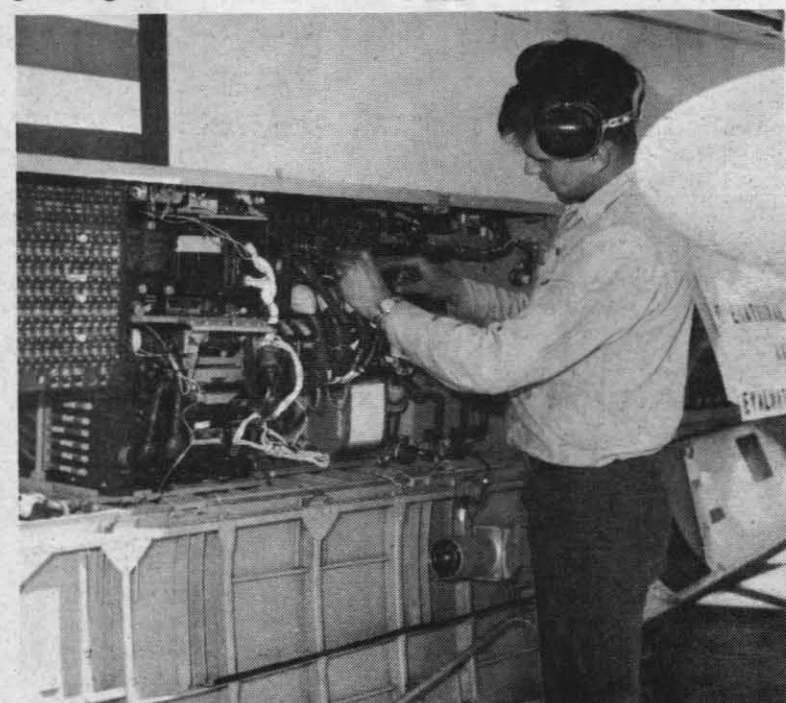
Electronic Warfare tactics play an increasingly important role in today's attack mission planning. VX-5 is tasked with

evaluating and developing tactics for all ECM equipment used in attack aircraft under CNO Project F/O 210. This project was conducted by a detachment based at Nashua, New Hampshire, where it was supported by Sanders Associates and the Applied Physics Laboratory, Johns Hopkins University. However, with completion of construction of the new Echo Range at China Lake, this detachment was disestablished in late February 1968 and F/O 210 is now prosecuted at China Lake.

VX-5 has a detachment located at Naval Air Station, Oceana, Virginia which is engaged in evaluating the A-6 weapons system. All weapons the aircraft is capable of carrying must be evaluated, using both computerized and manual release systems. Release tables, computer tapes and sight settings are evaluated. This is a long range program with timely reports and Advance Evaluation Notes published at appropriate stages of progress. The Detachment's responsibility includes provision of inputs to the A-6A Tactical Manual.

In order to be constantly prepared for carrier OPEVAL, and to maintain a high state of combat readiness, all pilots are carrier qualified and maintain currency. Although the Naval Missile Center at Point Mugu, California has the primary responsibility for ship suitability test for weapons (logistics, stowage, and handling), VX-5 takes over the evaluation when the weapon is delivered at the bomb elevator and carries it through the sequence terminating in weapon delivery on target.

As the need for new weapons and weapons systems expands, so does the need for test and evaluation. During the prosecution of its role in test and evaluation, Air Development Squadron FIVE determines the most effective methods of delivering new weapons, in addition to preventing unsuitable or ineffective weapons from reaching the fleet user. The expertise and performance of the officers and men of VX-5 has and continues to contribute significantly to the success of Naval Attack Carrier Aviation.



AIRCRAFT SURGERY — VX-5 airmen are among the best trained in the Navy and provide expert maintenance on electronics systems similar to the one under investigation by this flight line crewman checking the inside panel on the port, front side of an A7A aircraft.

Flower Show Winners Display Awards



ORANGE SHOW RIBBON WINNERS—Members of the Desert Daisies Junior Garden Club display the ribbons which they won at the National Orange Show in the Flower and Garden Show competition held in San

Bernardino recently. Shown from (left) are Linda Misfeldt; Cynthia Cobb; Samantha Swann, and Melissa Swann. Front (left), Nancy Etheridge; Barbara Willis, president of the group, and Linda Bacoch.

Developments At NWC Corona Seen By Adm. Michaelis

RAdm. F. Michaelis, Commander Carrier Division Nine, and three of his staff officers visited Naval Weapons Center Corona Laboratories recently.

At the Laboratories he was briefed on the Standard ARM anti-radiation missile, a new air-to-surface missile, new tracking techniques, and fuze developments. Dr. F. S. Atchison, Laboratory Director, and Cdr. R. E. Forbis, Executive Officer, were hosts.

"I was certainly impressed with the solid work being done at Corona Laboratories. I didn't realize the extent of new research, particularly in the areas of fuzing and weapon reliability," said Admiral Michaelis, after his briefings.

Admiral Michaelis and his staff, Cdr. R. C. Hendrickson, Cdr. A. E. Waller, and LCDR. R. L. Johnson, later departed Corona Airport aboard a Navy aircraft.

China Lakers Bring Home Honors From National Orange Show Events

Local flower arrangers scored high at the recent National Orange Show flower and garden competition in San Bernardino.

The Oasis Garden Club was first in the table setting section with Mrs. Frederick Richards in charge of the table. Mrs. Richards also had a first place in the "Coffee Time" flower arrangement section and a third in "High-Rise Living."

Mrs. Alfred V. Pratt was first in this section and had a third place in the "Twilight in the Garden" section. Mrs. Curtis Garrett was first in this section which emphasized quiet serenity.

"Our Hang-Ups" was a very popular section which featured wall hangings and plaques made of dried natural materials. Mrs. Robert Rowntree was second and Mrs. Garrett third in this class.

The Desert Daisies Junior

Garden Club was especially invited to compete by Mrs. John O. Spencer, of Highland, Calif., general chairman of the flower and garden show. The girls responded by entering 18 arrangements for which they received 16 ribbons and awards.

Double winners of blue ribbons in the "A Young Way of Life" junior arrangements section were Misses Linda Misfeldt and Samantha Swann. Miss Swann also won a first place for her dish garden in the horticulture section.

Misses Nancy Etheridge and Melissa Swann won blue ribbons in the "Sports and Games" and "My Room" sections. Red and white ribbons for second and third place went to Misses Cynthia Cobb, Linda Bacoch and Barbara Willis.

The Desert Daisies meet each Thursday after school with their counselor Mrs. Roger C. Wickenden, at 4-A Wasp Circle.



JUNIOR PROFESSIONALS — Junior Professionals and recent hires from China Lake Naval Weapons Center had an unusual opportunity recently to tour NWC Corona Laboratories. R. E. Hamilton (r), Head, Missile Countermeasure Branch II, NWC Corona

Labs, explains a readout demonstration of simulated missile intercept to the China Lake group shown from (left), G. J. Auger; L. V. Barglowski; H. H. Nelson; G. L. Craig; W. D. Nurnberger, and H. W. Gerrish. Thirty-five professionals made the tour.

D. F. Sullivan, Point Mugu Tech. Dir. Guest Speaker at April ASPA Meet

Donald F. Sullivan, Technical Director of the Naval Missile Center at Point Mugu, will be the guest speaker at the luncheon meeting of the China Lake Chapter, American Society of Public Administration (ASPA) on Friday, April 5, at 11:30 a.m. in the Mojave Room at the Officers' Club.

Sullivan's topic will be "The Management Philosophy of the Naval Missile Center." ASPA members and non-members are welcome to attend this affair.

As Deputy Director of Tests, and currently as Technical Director, charged with similar duties, he is responsible to the Commander of the Naval Missile Center for the overall technical direction of that large organization, which is charged with the test and evaluation of Navy guided missile systems, and with furnishing technical aid to the Naval Air Systems Command in advanced weaponry.

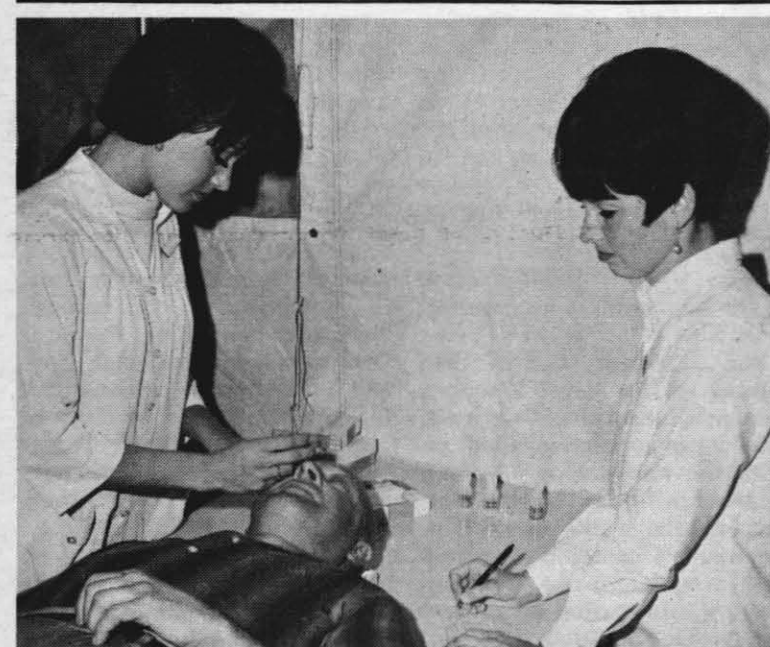
The technical director's career has mainly been divided between civil service posts in the electronics, radar, and guided missile fields, and active and reserve duty in the



DONALD F. SULLIVAN

Marine Corps.

Between service in World War II and the Korean Conflict, he served seven years on active duty. He has risen in rank from second lieutenant to colonel. Most of his overseas duty was in the South Pacific in World War II.



EYEMOBILE TREATMENT —Getting "VIP" treatment from two beauties is Clarence L. Jones, Naval Weapons Center Transportation Department, Code 7076, during the recent visit of the Indian Wells Valley Eyemobile, sponsored by Lions International. Jamielle Winters (l) of the American Eye Bank Foundation of Los Angeles and Tiona Bauen, a Ridgecrest volunteer, give their patient expert service.

McClung Named "Layman of Year For China Lake" at Annual PR Banquet

Roderick M. McClung was named "Layman of the Year for China Lake" at the Annual Public Relations Banquet of Kern Division, California Teachers Association, East Kern area, held in White's Cafe in Mojave on Friday evening, March 22.

McClung was selected by the membership of the China Lake Education Association for his outstanding community service. He is employed at China Lake as Head of Development Division 3, Aviation Ordnance Department and is a member of the China Lake Elementary School Board. His service activities include 20 years of work with Junior High School students through his role as a Sunday School teacher in both the All Faith Chapel and Immanuel Baptist Church.

He was instrumental in initiating the "Draggin' Dolphins," a swim group for handicapped and post-operative patients and his services to schools include the contribution of many hours for the improvement of facilities used by the foreign language department at Murray School.

Master of Ceremonies for the Friday evening program was Ray Thurm, president of the China Lake Education Association.

Special guests of the evening included Harry Blair, Kern County Schools Superintendent, Assemblyman Kent Stacey, Kern County Supervisor LeRoy Jackson, and Dr. Albert Hoyem, representing Captain M. R. Etheridge, NWC Commander.

Buy U.S. Savings Bonds

Honored Woodwind Quintet Performs In Concert Here

The New York Woodwind Quintet will be presented in concert by the China Lake Civic Concert Association on Thursday, April 4, at 8:15 p.m., at the Center Theater. This is the fourth concert of the Association's series of five.

Many new compositions have been written especially for the group by American composers. Its list of first performances includes its series of concerts at the Library of Congress in Washington, D.C., where it has given many world premieres.

The members of the Quintet are: Samuel Baron, flute; David Glazer, clarinet; Ralph Froelich, horn; Ronald Roseman, oboe; and Arthur Weisberg, bassoon.

The Board of Directors of the China Lake Civic Concert Association has announced that individual tickets will again be sold for those wishing to attend this concert. Tickets will be sold at the NWC Theater box office on Tuesday and Wednesday, April 2 and 3, between 11:30 a.m. and 1 p.m. and from 4:30 to 6 p.m. On April 4, tickets will be sold during the noon hour and from 7:30 p.m. until concert time.

China Lake Girl Is First Entry In Area Pageant

(Continued from Page 1)

12, attends Murray Junior High, and Janet Lynn, 5½, attends Vieweg Elementary.

The vivacious Miss Peters, who has sung with choral groups and bands, lists singing as her number one interest. Her other interests include hair styling, sewing, and swimming. She hopes to attend beauty college in San Jose after she completes high school.

Deadline April 6

Entries for the Miss Ridgecrest-China Lake Pageant will be accepted until April 6, announces Dick Hitt, pageant coordinator. Candidacy will be limited to a maximum of 12 young ladies.

Candidates may be between the ages of 17 and 27 and have lived in Kern County for the past six months. They will be judged on poise, personality, intelligence, charm, and beauty of face and figure. They must make a three-minute talent presentation.

Local business firms, fraternal organizations, clubs, and Center departments are urged to sponsor a candidate of their choice, coordinator Hitt said. Last year's winner was sponsored by Weapons Planning, he pointed out. There is an entry fee of \$25 which will be applied toward a scholarship for the winner prior to her entry in the Miss Kern County Contest.

Those groups interested in sponsoring a candidate should contact Gene Richardson of the Ridgecrest Chamber of Commerce, 375-8331, for entry blanks and contest rules, Hitt emphasized.

Laser Rangefinder Readied for Range

(Continued from Page 1)

quick rise of light amplitude to its maximum. Mounted on one arm of the high-speed mount, just above the tracking error detector, the transmitter emits a pulse six "nanoseconds" long. The pulse is reflected from the target and received back at the rangefinder. The delay, measured in nanoseconds, indicates the range. (A nanosecond is ten to the ninth power part of a second — exceedingly small!)

The tracking error detector directs the mount and supplies azimuth and elevation data, to which the range is added. The data is recorded on magnetic tape at the site. Kvammen believes that the great precision available with the laser rangefinder will — if it is proved in tests coming up — reduce the number of instruments

needed for any airborne test of high-speed weapons.

"The one-site solution for data acquisition has been the whole idea behind the development of this rangefinder," says Kvammen. "The range people need at least three Askania mounts to get useful data for each test—to locate the target over its trajectory—and they like to have four."

"Then there's the film to be supplied and processed and the time lag while all this is happening. Its an expensive and time-consuming proposition."

The Center will soon find out how well this first-of-its-kind laser rangefinder-equipped tracking mount will fill the bill. And the Center may gain a powerful, time and money-saving new tool for its weapons systems programs.



FINE ADJUSTMENT — Physicist Gary Kvammen makes small adjustment in laser rangefinder's new transmitter, which features a fast "Q-switch" providing for fast rise in each laser pulse to its maximum. Transmitter uses a ruby rod, segmented for greater cooling.



NAACP, NWC IN DISCUSSION — Roy Wilkins (rear left), Executive Director of the NAACP, discusses the local prospect in civil rights with Capt. Robert Williamson II (right), NWC Executive Officer. Attending the discussion are Dr. H. Claude Hudson (front, left), of the NAACP national board of directors; Jesse Scott (center), NAACP Southern Area Conference Field Director, and James Jefferson (rear, right), president of the local NAACP branch. Others at the conference were Dr. T. S. Amlie, NWC Technical Director; Welton Jules, Ridgecrest city councilman; Harold Metcalf, Assoc. Head Code 40 and chairman of the NWC Equal Employment Opportunities Committee; Emmanuel Dunn, vice-president of the local NAACP branch, and Washington Nichols, former president and a founder of the Indian Wells Valley Branch.

VX-5's Mission—Develop Day, Night, All-Weather Tactics



ANOTHER MISSION—ANOTHER TEST — A VX-5 aircraft, the F4B dual-engine jet, on a test evaluation mission carrying MK-82, 500 lb. bombs flashes by.



LOADING UP — Ordnance crewmen hard at work getting their craft loaded with air-borne ordnance to be dropped over Naval

Weapons Center Charlie Range. Projects assigned to the unit are closely monitored by the Projects Director, Cdr. J. S. Clauzel.



ALL SECURE — Preflight check of the aircraft by VX-5 pilots is an "absolute must" and another means of guaranteeing the success of the mission. Cdr. J. S. Clauzel, projects director, checks the under section of his aircraft.



FILL 'ER UP BUDDY — Proficiency and a dedication to duty provides the motive for these airmen to give their A7A "tender loving care," keeping their aircraft in an "always ready" condition. Here, the VX-5 professionals are refilling air cylinders inside the aircraft.

Well Trained, Equipped Men Have Important Job Testing, Evaluating Weapons and Systems

Located at the Naval Weapons Center, China Lake, California is an operational Navy Squadron which is most instrumental in assuring the effectiveness of air-to-ground weapons and weapon delivery. The organization is Air Development Squadron FIVE, whose mission is to test and evaluate, in an operational environment, new carrier aircraft with an attack capability, associated electronics countermeasures equipment, air-to-surface weapons, and weapons systems. The purpose of this endeavor is to determine service suitability, identify deficiencies and make recommendations for their correction, and to determine maintenance and training requirements.

In addition, the mission includes the development of day, night, and all weather tactics that are compatible with the hostile environment in which the fleet is operating and to maintain the highest degree of pilot proficiency and combat readiness commensurate with prosecution of CNO - assigned projects. In fulfilling this mission, VX-5 employs more than 40 officers and 250 enlisted men, including the A6 Oceana Detachment, and is currently prosecuting 36 projects.

Units Birthday

The squadron was commissioned in 1951 at Moffett Field, California, and in 1956 moved to the Naval Weapons Center, China Lake, California. The move was predicated on both the outstanding flying weather afforded by the desert and the availability of instrumented bombing ranges that provide precise and continuous information on aircraft and weapon position in space throughout any delivery ma-

neuver. The parameters of immediate interest — dive angle, flight profile, release altitude, true airspeed, and weapon impact — are plotted by electronic devices. Another range in the Coso mountains contains simulated Southeast Asian targets including SAM sites, bridges, vehicles, convoys, supply dumps, and tunnels.

Initially the squadron's aircraft included the A-1 Skyraider, F-9 Cougar, A-3 Skywarrior, and FJ-4 Fury. Currently, VX-5 flies F-4 Phantom II's, A-7 Corsair II's, A-6 Intruders and A-4 Skyhawks. The squadron is commanded by Captain W. B. Muncie, a veteran Naval Aviator with 20 years aviation experience.

Perfection — Their Hallmark

Test and evaluation of weapons or weapons systems are assigned under designated projects. Prior to assignment as an operational evaluation project, the normal course for a new weapon is concept and design by a research and development activity, such as NWC (or a private contractor), development and fabrication, then technical evaluation by a service agency.

Once accepted on a technical basis, Naval Air Systems Command requests an Operational Evaluation Project from CNO, who in turn assigns the task to Commander Operational Test and Evaluation Force. Commander Operational Test and Evaluation Force re-assigns the project to one of its subordinate commands for prosecution, depending upon purpose (VX-1 ASW, VX-4 Air-to-Air, VX-5 Air-to-Surface).

The purpose of each project is to determine if the weapon is effective, if it can be successfully employed in the fleet environment and what is the

best method of delivery. Occasionally, development assist projects are assigned when the developing agency does not have necessary aircraft services. In this case, the developing agency provides a test plan, and VX-5 flies only what is requested. A development assist project is advantageous both to the developing agency and VX-5, in that the agency receives early inputs concerning fleet operational suitability of the item, and can make changes if required. VX-5 then has an opportunity to learn more about the item prior to receiving for OPEVAL. Changes recommended during a Development Assist frequently aid in more rapid introduction of the weapon system.

Success — A Key Factor

All projects assigned to VX-5 fall under the realm of the Projects Department, where they are closely monitored by the Projects Director, Commander J. S. Clauzel.

Individual Project Officers are assigned one or more projects which they manage in entirety, including test plan preparation, direction of flight testing, and report writing. Data collected during the prosecution of the project are reduced and evaluated by the project officer, with the assistance of the OEG (Operations Evaluation Group) Representative and the engineers and scientists of the Center.

Project Officers provide an additional function as squadron representatives at conferences and meetings concerning new weapons or weapons systems. Although developing agency scientists and engineers have good ideas for a new weapon, they need to know the practical parameters required to make the weapon usable for

fleet service. Both time and money is saved by VX-5 representation in the early development phase of a weapon. Inter-service coordination is achieved by Air Force and Marine Corps Liaison Officers assigned to VX-5.

Important Product

The most important product of VX-5 is paper — the completed report. An OPEVAL is of no value unless the results are transmitted to the proper activities. Toward this end, there are several different methods of promulgating results. The item most familiar to fleet users is the Advance Evaluation Note. This publication is the specific charter of Air Development Squadron Commanding Officers. The AEN is distributed directly to fleet users at any time upon completion of a project when sufficient information has been gathered to be of fleet squadron benefit.

Contained in the AEN are delivery information, sight settings, enroute and escape tactics, maintenance and boresight procedures, and other information of value to the user. When necessary, preliminary message AEN's are also used to "pass-the-word." AEN's are informal publications, rapidly disseminated, and designed for immediate fleet use; they are of short duration, cancellation occurring immediately after incorporation in the Tactical Manuals. Also, OPEVAL results are reported officially to CNO. This is accomplished by Commander Operational Test and Evaluation Force Deficiency, Progress, Partial, and Final Reports.

These formal reports, prepared initially by the prosecuting activity, report deficiency (Continued on Page 6)

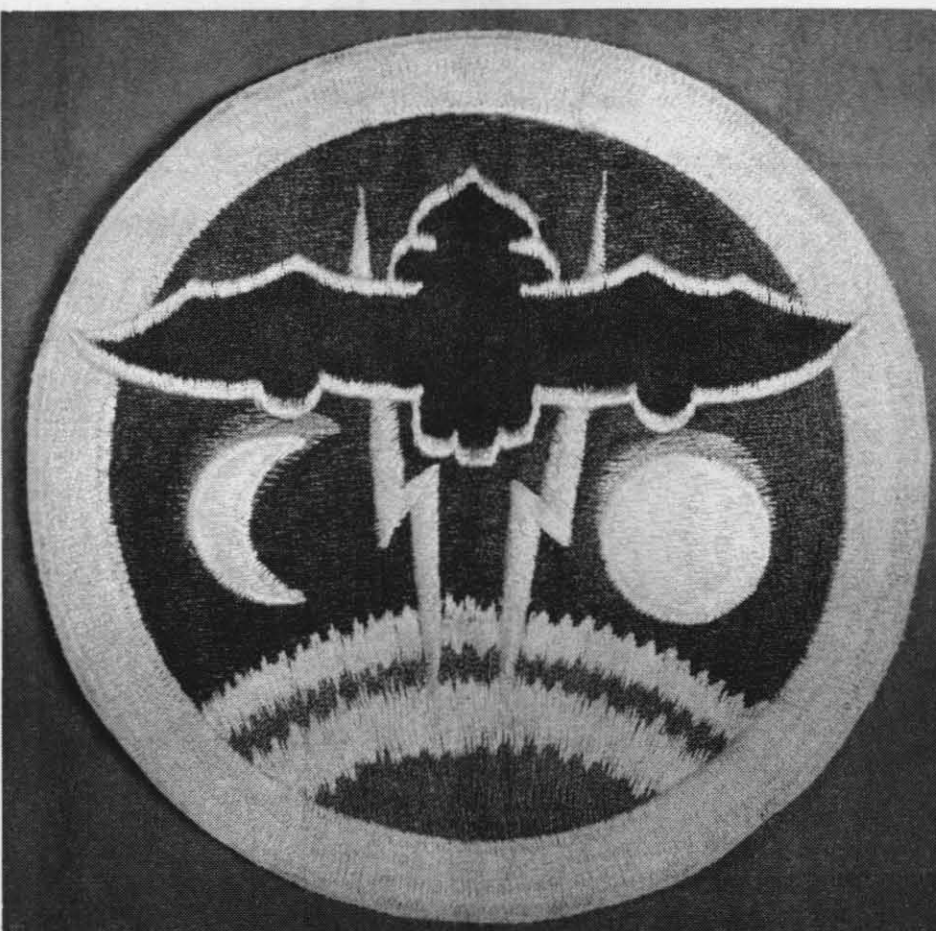


OTHER ORDNANCE — A variety of ordnance is carried on VX-5 aircraft such as this A4E with Shrike, 2.75 rocket pods and MK-81 250 lb. bombs.



TEAMWORK MAKES THE DIFFERENCE — Cdr. D. L. Johnson (l) VX-5 Maintenance Officer; Cdr. J. S. Clauzel, VX-5 Projects Di-

rector, and Maj. J. O'Brien, Air Force Liaison Officer, discuss a project prior to departing on an aerial mission.



SQUADRON INSIGNIA—The Vampire on a background of blue-gold, depicts all-weather; sun-moon for day, night; lightning for strike aviation.



TOP-FLIGHT MAINTENANCE—Plane Captain, AN M. Stanberry (l) and Captain Muncie discuss the aircraft's condition prior to the Commanding Officer's departure in an A7A jet.



VX-5s COMMANDING OFFICER—Capt. W. B. Muncie boards his A7A aircraft in preparation for a project flight.