



RECEIVES APPLICATIONS — Margy Zinke, Co-Vice Chairman of the Miss Ridgcrest-China Lake Contest, presents contest applications to Terry Fox (center), Miss Kiwanis, and Tina Bennett, (right) Miss Aero Science. The deadline for filing is April 15.

Miss Ridgcrest-China Lake Contest Is Getting Underway

Margy Zinke, Co-Vice Chairman of the Miss Ridgcrest-China Lake Contest, also has the responsibility of filling two other jobs. The first is that of Contest Coordinator. She will assist each contestant with their entry and throughout the contest counsel their individual needs. She will also play the role of Make-up Director. Margy is the local distributor of Viviane Woodard Cosmetics and has obtained the services of 22 trained consultants. This will afford each contestant her own personal make-up artist that will train her on skin care and the latest professional make-up techniques to highlight her own natural beauty. This will also include a stage make-up.

All service organizations and Station departments are encouraged to sponsor a Miss Ridgcrest contestant. For information call Margy Zinke at 375-4007 or Jim Poore during working hours at 71398.

Spring Planting

Principal speaker at the April 4th, 9:30-11 a.m. meeting of the Newcomers Club will be L. E. "Vern" Bradshaw of Flowerland Nursery, who will discuss "How To Prepare Your Soil for Spring Planting." The public is invited.

Bradshaw will also conduct a question-answer period after the meeting which is held the first Tuesday of each month at the Ridgcrest Park Bldg.

SHOWBOAT

FRIDAY MARCH 31
"PICTURE MOMMY DEAD" (85 Min.)
Don Ameche, Martha Hyer, Zsa Zsa Gabor
7:00 P.M.

(Mystery) A fortune awaits the survivor of a mystery-laden estate now held by a pretty teenager who believes her mother was murdered. A greedy stepmother and a disguised cousin head up the suspects in this shocker-thriller. (Adult.)
Shorts: "Pink-A-Boo" (7 Min.)
"Hollywood Star Spangled Revue" (11 Min.)

SATURDAY APRIL 1
—MATINEE—
"KATHY O" (99 Min.)
Patty McCormack
1:00 P.M.
Shorts: "Hyde & Sneak" (7 Min.)
"Capt. Video No. 4" (17 Min.)

—EVENING—
"A PATCH OF BLUE" (105 Min.)
Elizabeth Hartman, Sidney Poitier, Shelley Winters
7:00 P.M.
(Drama) Shelley won an Oscar for her portrayal of the moonlighting mother of a blind girl. The girl's chance meeting with a compassionate young Negro reporter changes her life completely. A warm, sensitive film. (Adult, Mature Youth.)
Short: "O Solar Meow" (7 Min.)

SUNDAY-MONDAY APRIL 2-3
"THE FORTUNE COOKIE" (125 Min.)
Jack Lemon, Walter Matthau
7:00 P.M.

(Drama/Comedy) A Cleveland Brown's halfback bowls over a TV cameraman and his in-law cans him into claiming serious injury for a lawsuit in this mix of pathos and comedy. Matthau is up for an Oscar on this one! (Adult.)

TUESDAY-WEDNESDAY APRIL 4-5
"THE VENETIAN AFFAIR" (93 Min.)
Robert Vaughn, Elke Sommer
7:00 P.M.
(Spy Drama) Former CIA agent is sent to cover an international peace conference and ends up aiding the CIA in trying to discover why the meeting was blown up. Scenic Venice, pretty Elke and secret agents galore makes for thrills. (Adult, Youth.)
Shorts: "Hiccup Pup" (7 Min.)
"Fastest Auto in the World" (9 Min.)

THURSDAY-FRIDAY APRIL 6-7
"WAY . . . WAY OUT" (105 Min.)
Jerry Lewis, Connie Stevens
7:00 P.M.
(Comedy) The year 2194 finds Jerry an astronaut who, to get a moon assignment, must take a bride. He does—but Connie's a very reluctant one and thereby hops this tale of fun and frolic. Monkeyshines on the moon. It's spicy. (Adult.)
Short: "A Taste of Catnip" (7 Min.)

'Kiss Me Kate' Coming Soon With Big Music

"Kiss Me Kate," Community Light Opera and Theater Association's first musical production of the season, is busy rehearsing for the opening date April 13. The show is to run April 13, 14, 15, 20, 21, and 22 at the Murray School Auditorium, with curtain time at 8:15 p.m.

"Kiss Me Kate" offers a challenge to the cast, as they are required to portray two characters: one a group of professional actors in the 20th century, and the other the cast in Shakespeare's comedy "Taming of the Shrew."

Bella and Samuel Spewack, authors of the book, combine the two plots to generate a fine comedy story with some very funny characters. Cole Porter wrote the music and even borrowed lyrics from Shakespeare for the song "Women Are So Simple."

Music Makes the Show
Playing the role of Fred Graham, producer director and the star of "Shrew" is George Linstead. In this multiple role Linstead sings some of the show's memorable songs, "Were Thine That Special Face," "Wonderbar," and "Where is the Life of Late I Led?"

Jeanne Gritton plays Lilli Vanessi. She is Fred's former wife and portrays Katherine, the female lead in Shakespeare's comedy. Mrs. Gritton runs the gamut in music by singing the haunting love song "So In Love," and later a sarcastic comment on males in "I Hate Men."

Production director is Pat Schwarzbach with Sarah Hetrick assisting.

Welcome Aboard



LT. WALTER L. CZERWONKA has arrived on board NOTS from the USS Worden, DLG-18, to be head of Weapons Control Facilities in Design and Development Br., Range Div. of Code 30. On the Worden he was shipboard project officer for the first production model of the ANSPS-48 height-finding radar. Lt. Czerwinka brings his wife Lena and children Bill, 17; Carol, 15; Jane, 12, and Larry, 7, to their new home at 35-B Ashworth Place. He will be an especially welcome addition to the China Lake sports scene, as he has coached and managed Little League, Pony, and Colt baseball teams at duty stations from California to Great Lakes. Lt. Czerwinka entered the Navy in November, 1944, as a White Hat, and received his commission while an FTM-1 aboard the USS Mahan, DLG-11, in 1962.

Researchers Now Get 3-D View With Stereoscan Microscope

Scanning Boosts Powers, Uses Of Electron 'Scope

Is there or was there really life on other planets?

This intriguing question, plus many others in widely assorted fields of research carried on at NOTS may — possibly — receive new answers from evidence seen with the eye for the first time with the help of a fascinating new kind of electron microscope obtained by the Research Department just three weeks ago.

The name of the new instrument is the Stereoscan, a scanning electron microscope made in England by the Cambridge Instrument Co., Ltd. There are only six of these instruments in the United States as yet, according to Charles Drew, research chemist in Code 50's Chemical Kinetics Branch.

What It Can Do
Charles Drew, who is in charge of the new machine and is its chief user so far, predicts important successes in store in research work in the department, and great benefits to researchers from other departments — all of whom have access to the scanning electron microscope.

He explains that the instrument's main advantages are 1) that with its great depth of field — the area in which details are in focus — the observer can look at a rough surface displayed in three-dimensional clarity; and 2) that the observer does not need to have thin sections or replicas (plastic casts) made—he can look at the raw sample itself.

For example, one of the projects now being pursued with the help of the Stereoscan is a search for "exobiology," or extra-terrestrial life.

The material being studied in this project is a pinch of fragments from the Chondrite Orgueil meteorite that fell near the town of Orgueil in France in 1864. The fragments were sent to Charles Drew through the Research Engineering Science Association.

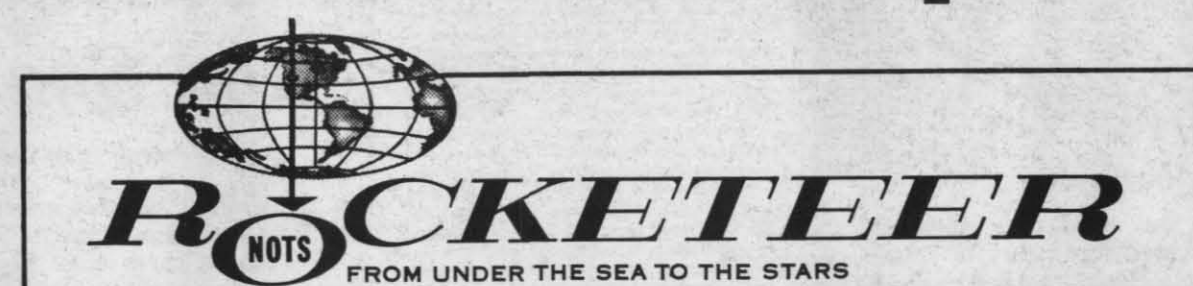
"This is a marvelous opportunity," says Drew. "It's just like receiving a handful of precious diamonds. I could spend a long time looking at just these few small grains with the Stereoscan."

A Burroughs High School student, Robert Ferrone, has the remarkable opportunity of working with Drew on this project through the Work Experience Program.

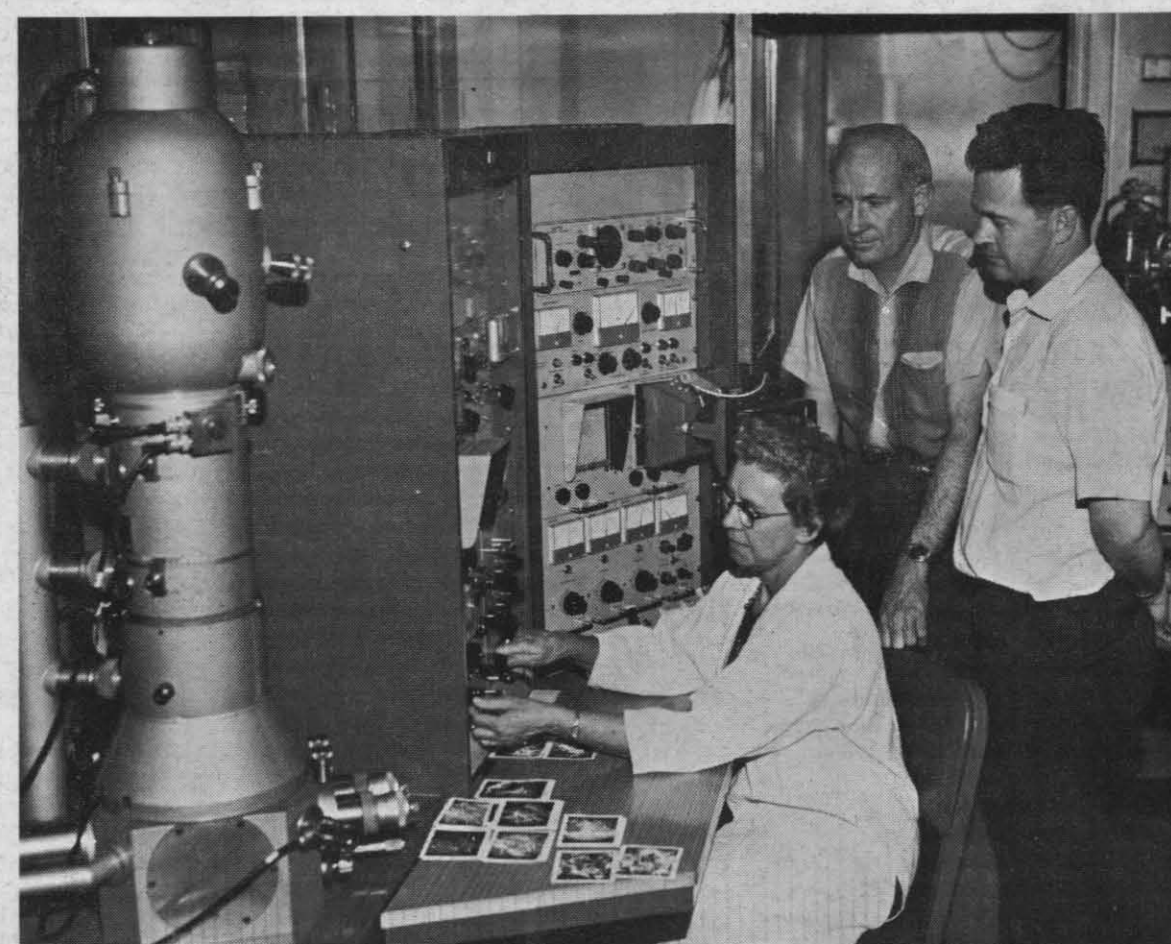
Drew explains that the meteorite material under study is composed of the rarest type of material that falls on Earth, a carbonaceous metal. He and Ferrone are looking for fossil spores that may have become trapped in the material before it collided with Earth.

Complements Other Microscopes

Drew points out that the Stereoscan's capabilities are complementary to those of other microscopes now in use at NOTS. It provides higher magnification than that of a light-type instrument, but lower than that of the high-powered transmission electron microscope in



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STEREOSCAN CREW — Much of the operation of this Stereoscan scanning electron microscope console will be done by physical science aide Mrs. Hazel Parish, shown focusing the display oscilloscope. Watching the procedure are (l-r) Charles Drew,

research chemist, and Joseph E. Thomas, the electronic technician who is charged with keeping the Stereoscan "on stream." His responsibilities extend to the instrument's power source, in two tall cabinets out of the picture.

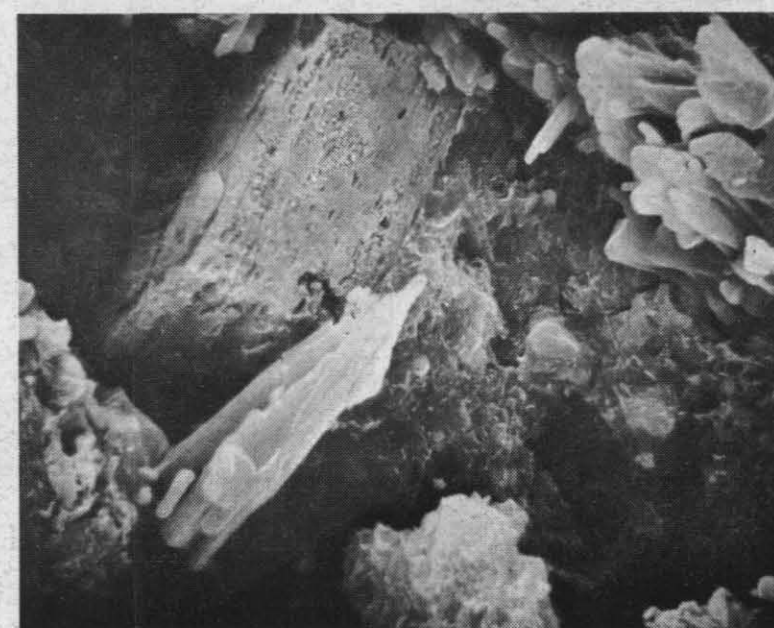
Code 50's Physics Division.

The Stereoscan has a range of 20-power magnification to a useful 50,000-power (and maximum of 100,000), much greater than a light-type instrument, but somewhat less than other electron microscopes. It resolves images to 200 angstroms (1/50,000 millimeter) compared to 500 angstroms or less resolution in others.

The Stereoscan differs from the transmission electron microscope in that the focused beam of electrons need not pass through the specimen. Instead, the beam causes the surface of the specimen to emit its own electrons, which are then attracted into a collection system. From there, they are redistributed onto an oscilloscope screen in exactly the same back and forth, top to bottom scanning pattern with which the electron gun generated them by scanning the specimen.

Drew and his co-workers have been using the instrument's photographic capability often since it was installed. Polaroid pictures are now made, and Drew expects negative-making capability to be added soon. A maximum of 200 pictures a day can now be made. In the stereo mode, a pair of prints is made for each specimen. Each pair of prints of each picture are viewed under a twin-lens eyepiece to reproduce the 3-D effect.

The Stereoscan also has a "distributive mode" in which the brightness of the reproduced image of the specimen varies



LIFE IN OUTER SPACE? This clear, sharp picture is one of a pair taken recently on Polaroid film with the new scanning electron microscope in the Chemistry Div. of Code 50. It shows a tiny cleft in a small fragment of the Chondrite Orgueil meteorite, that fell near the town of Orgueil, France, in 1864. Researchers may find fossilized life forms in such fragments with the aid of the Stereoscan.

ies with the degree of voltage being passed through the specimen. This allows micro-miniature integrated circuits to be studied.

Foresees Breakthroughs
In weather modification studies, researchers have seen — in 3-D — the condensation nuclei produced by silver iodide crystals for the first time, says Drew.

But it is in the field of gas chromatography that Drew foresees the most exciting progress, at present.

"This instrument makes it possible to see the detailed structure of the surface of adsorbents used in gas chromatography," he says. "It allows us to supplement other methods in the development of this field."

"With this new analytical tool, we're going to be able to break this field wide open!" exclaims Drew.

With such enthusiasm, plus the increasing resources available to NOTS researchers, it just may happen.

1st LT. JAMES L. STANFORD has begun work at NOTS in one of the most interesting shops on Station, the Optical Physics Br. of Code 50, under Dr. Hal E. Bennett. Lt. Stanford, an Army Artillery man from Martin, Tennessee, arrived on board recently from the U.S. Army Air Defense School at Ft. Bliss, where he was an instructor. He received his Ph.D. in solid state physics from the University of Tennessee, and did his doctoral research at the Oak Ridge National Laboratories. He brings his wife Eleanor and their children James, 5, and Jeffrey, 2, to their new home at 63-B Rodman. An avid tennis player, Lt. Stanford played on the U. of Tenn. team and on the club of his home town of Oak Ridge.

Children Plus Machines Make Care Precious

Children have a natural curiosity about everything, big trucks, vehicles at work, street cleaning machines, dumpster trucks, skip loaders, and other fascinating machinery, the Safety Department warns.

All of these make the small child want to get closer to see how it works. Sometimes they get too close or in the way, and sometimes they create a hazard. Sometimes an accident happens.

It is necessary that every worker in the housing area take precautions to check for children, to see that a small child has not wandered into the way. It is also the responsibility of parents to check on the whereabouts of small children if there is work going on in their neighborhood.

If the children are to be allowed to watch the work, be sure they are in a safe place or stay with them, Safety Dept. men say.

SPECIAL FEATURE

PAGES 5-6-7-8

CROSSWORD PUZZLE

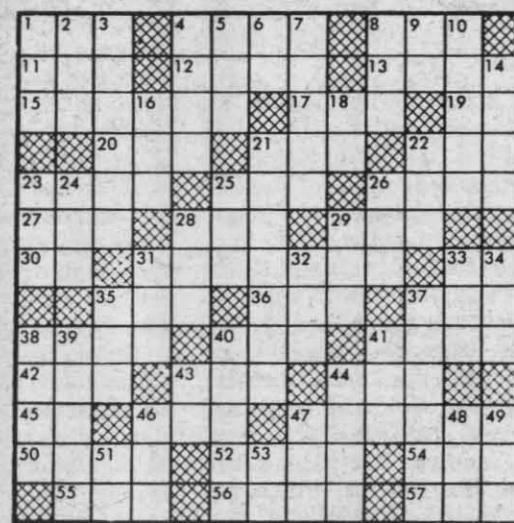
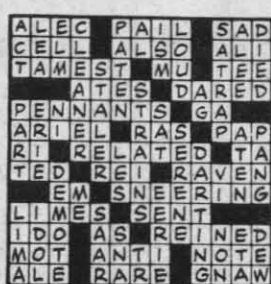
ACROSS

- 1-Through
- 4-Pronoun
- 8-Existed
- 11-Beverage
- 12-At this place
- 13-Partner
- 15-Disagree
- 17-Ventilate
- 19-Diphthong
- 20-Vase
- 21-Be mistaken
- 22-Indonesian tribesman
- 23-Respect
- 25-Sea eagle
- 26-Beverage
- 27-Peer Gynt's mother
- 28-Anglo-Saxon money
- 29-Dance step
- 30-Pronoun
- 31-Segregated in groups
- 33-Printer's measure
- 35-Edible fish
- 36-Possessive pronoun
- 37-Set
- 38-Supplique
- 40-Vessel's curved planking
- 41-Location
- 42-Once around track
- 43-Excavate
- 44-School of whales
- 45-Hypothetical force
- 46-Succor
- 47-Wing-footed
- 50-Face of watch
- 52-Solitary
- 54-Man's name
- 55-Lubricate
- 56-Slave
- 57-Lair

DOWN

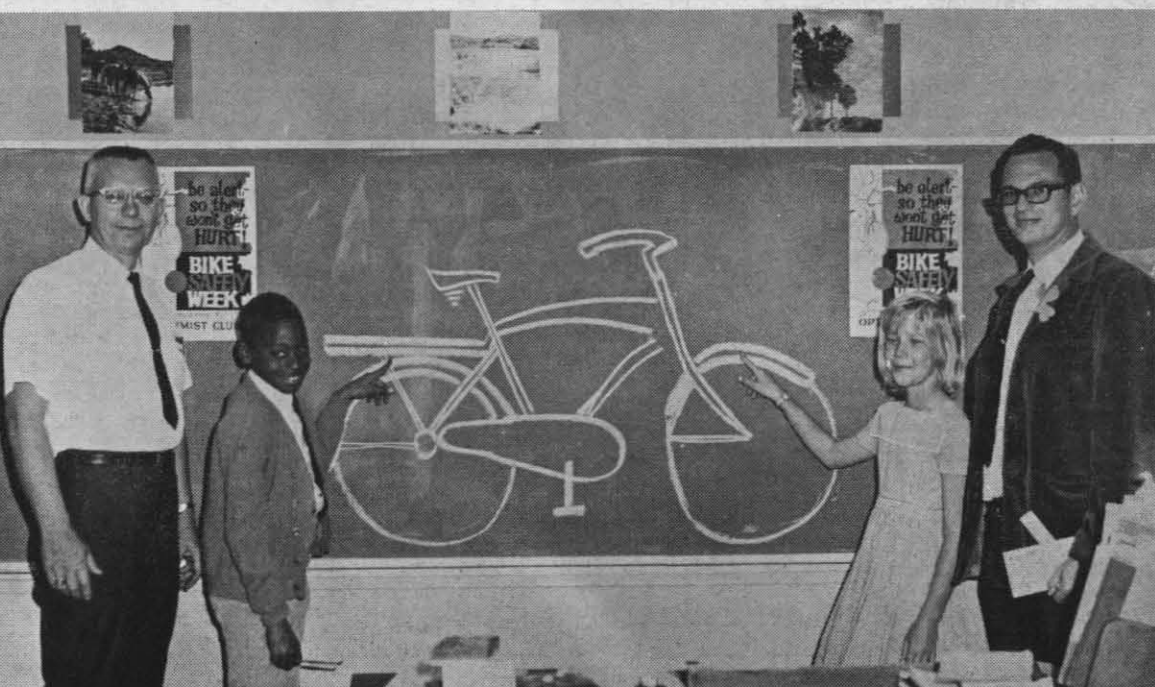
- 1-Cushion
- 2-Man's name

Answer to Previous Puzzle



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BICYCLE-WISE — Cleve Griffin (r) fifth grade teacher at Vieweg School, instructs his class in rules for safe bicycle riding. Visiting the classroom (left) is Vern Burk-lund, Bike Safety Week chairman for the China Lake PTA. The two young members of Griffin's class are Darryl Dunn and Janet

Pritchett. Bicycle Safety Week, April 3 through 8 this year, is an annual event sponsored by the China Lake-Ridgcrest Optimist Club, in cooperation with the local schools, PTA groups, police, and all others interested.

—Photo by PH3 Jerry Willey

State Tax Board Offers Assistance

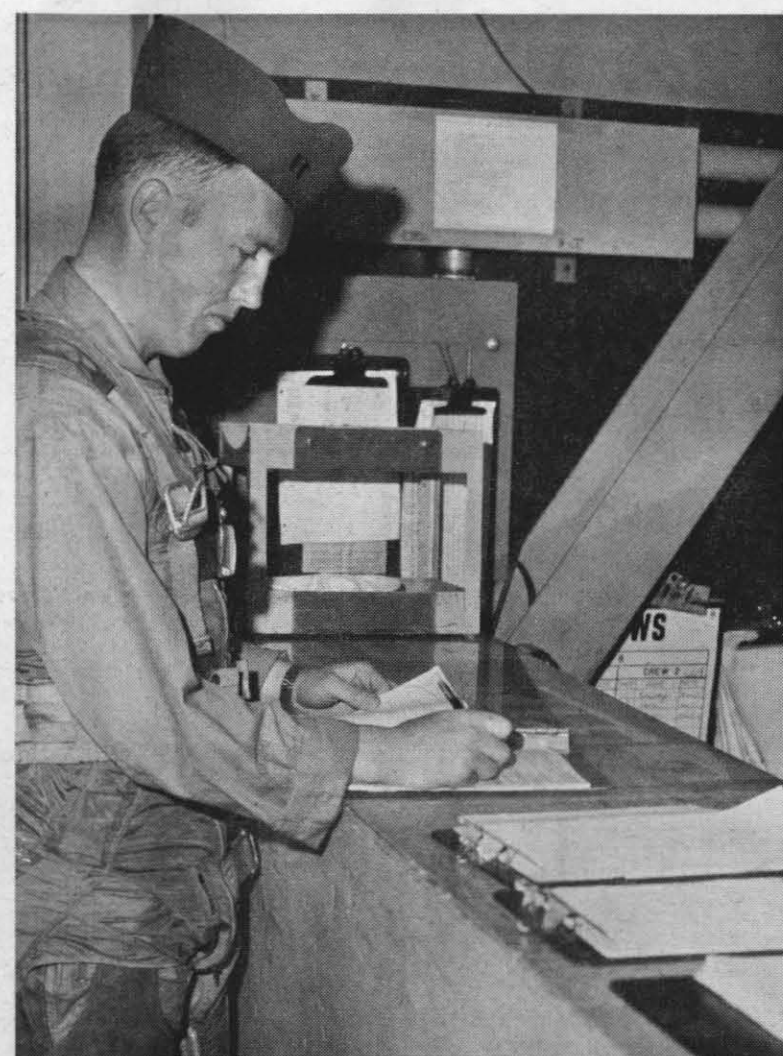
A representative from the California State Franchise Tax Board will be at the Community Center on Wednesday, April 5, from 9 a.m. until 4:30 p.m., to assist employees who have questions concerning their California State Income Tax.

From _____

TO _____

PLACE STAMP HERE

Trust And Understanding Between Pilots-Crews Necessary



SIGNING OUT — NAF Pilot G. L. Gottschalk checks out on the "yellow sheet" before his flight. On this particular day he was scheduled for three flights.



BURNING MIDNIGHT OIL—The night check line crew at VX-5 makes preparations to tow a F-4B out of the hangar for an engine turn-up. This is but one of the many maintenance jobs performed by the Squadron crews.

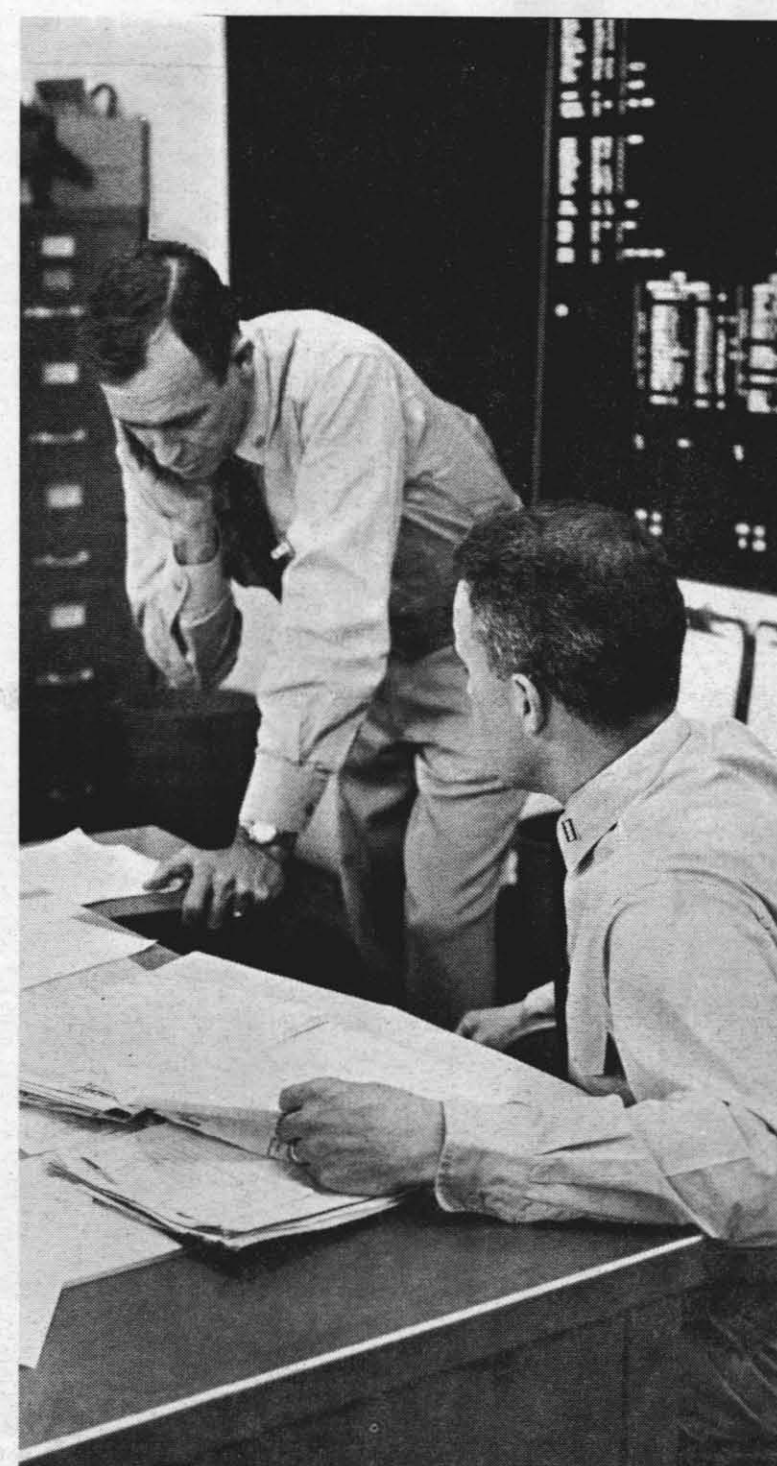


A STRANGE PAIR — Strange as it may seem, the aircraft at the right and the one above will work as a team. Lt. G. L. Gottschalk, NAF pilot, gets ready to board a T-28 propeller driven, two place aircraft. From this T-28, the pilot will control the F-9 target plane (above) through part of its mission. This picture, taken from the back seat of the T-28, gives a good idea of the small distance between aircraft. Note that the canopy on the F-9 is painted black. There is no pilot.



FLIGHT GEAR — VX-5 pilots go through various stages of either getting into or out of flight gear. From left to right, Cdr. J. S.

Clauzel, Cdr. D. L. Johnson and Air Force Liaison Capt. J. O'Brien. The amount and type of gear worn depends on the aircraft.



THERE IS ALWAYS PAPERWORK — VX-5's Lt. L. Thornburgh and Maintenance Chief C. D. Hulin discuss an aircraft maintenance plan. This is just one of many.

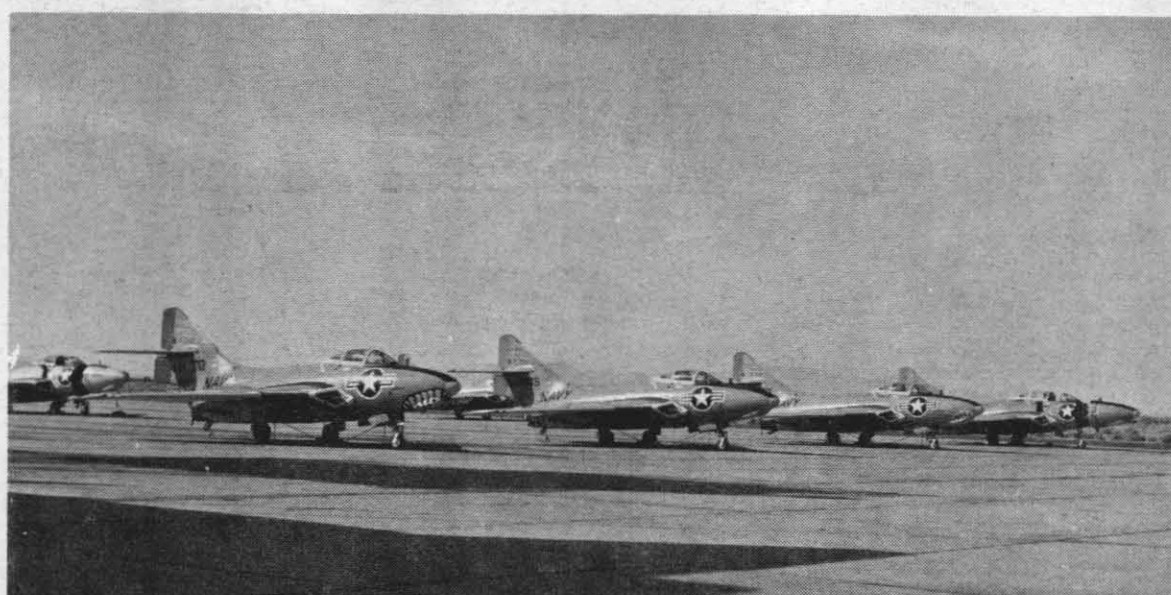


BOMB RACK—VX-5's J. Homeyer, an Ordnance Airman, tightens the lugs on TER bomb rack of F-4B. Men like Homeyer are highly skilled in their work.



NAF TRANSPORT — This two engine, commercial type aircraft is one of several used by NAF to provide necessary air transport.

In addition to providing air travel, NAF also maintains the runways and parking areas, in addition to primary duties.



TARGET AIRCRAFT — These are just a few of the target aircraft (F-9s) used by the Target Department at NAF. The teeth painted on the nose indicates a certain

amount of hours in use. A few missions or hours after this (amount unknown) and they will add the eyes. The Target Officer is Cdr. F. W. Bustard.



FOLLOW ME — A VX-5 Plane Captain gives expert assistance to the pilot of an A-7A while he is taxiing to the parking area.

The A-7A is one of the Navy's newest aircraft and was just recently assigned to the development squadron.

Heroics Found In Naval Aviation Is Not Confined To Combat Flying

(Continued from Page 5)

or work around aircraft are a breed unlike any other. Their devotion is something to behold. As far as the term heroics is concerned, consider this. Throughout the history of aviation, the public has always looked to the flyer as something special. The words hero and heroics have been connected to every type of flyer from the barnstormer to the commercial pilot. Add the military to this and . . .

The ground crews are no exception as they have the monstrous task of making sure that all aircraft are safe and will bring back the pilots. In these ground crews the pilot has always placed his faith. We have never heard of a ground crew member who has not put in a startling number of overtime hours without pay to insure that his task has been completed properly.

Second Flight

Our next flight was in a two place propeller driven T-28. In the beginning, it looked as if it was going to be just another routine observation flight, but that soon changed.

We got the word early in the morning that all systems were "go" for a target flight. Although the Target Officer was very patient, and went into minute detail as to just what the mission involved, we still didn't know in our own minds just what was in store. We soon found out.

Our phase of the flight concerned the take off and landing of an F-9 jet. Normally this would be of small concern, but when you add the fact that the F-9 had no pilot in it, the picture changes drastically. It was to be used literally as a target.

There are three basic steps in getting the radio controlled target to its designated altitude. The actual take off is handled by controllers on the ground. As soon as it is off the ground, the T-28 Pilot takes over and flies it to a higher altitude where an F-8 Crusader jet assumes control for the actual firing. Since these targets are costly, the purpose is not actually to hit them, but to effect a near miss. This of course means that they have to be brought back. The procedure is the same, but in reverse.

Just Routine

The pilots, crewmen and engineers involved in these target missions will go to great lengths to emphasize that this is an every day, routine type mission. We are not so sure. To us, the feeling you get in the pit of your stomach when you are flying over, under, and on each side of an unmanned jet aircraft is not routine. Particularly when you are almost close enough to reach out and touch it. Add to this the fact that the control pilot is also flying a plane of his own, and we are sure that you will get the point. We could go on page after page, citing examples of the various missions performed by the many departments at NAF. They happen daily.

Air Development Squadron Five

Air Development Squadron Five (VX-5) is under the command of Captain W. B. Muncie and is staffed by 30 officers and 150 men. The Squadron was commissioned in June, 1951. Their mission, as is NAF's, can also be simply stated in one sentence. After NAF determines that the weapon or missile will function, VX-5 conducts further tests to determine if they are practical.

Although this tells the story fairly well as far as the layman is concerned, this too is as far as simplicity goes. In official language, the VX-5 mission is to test and evaluate new carrier aircraft, weapons delivery systems, and new weapons in an operational environment; and to develop tactics, techniques, and procedures for the delivery of airborne weapons, both conventional and nuclear.

When you break this down, it means that they will test the weapon on supersonic as well as subsonic aircraft. They will try it at various altitudes and at all conceivable angles. They will then determine those procedures which are best suited in a combat environment.

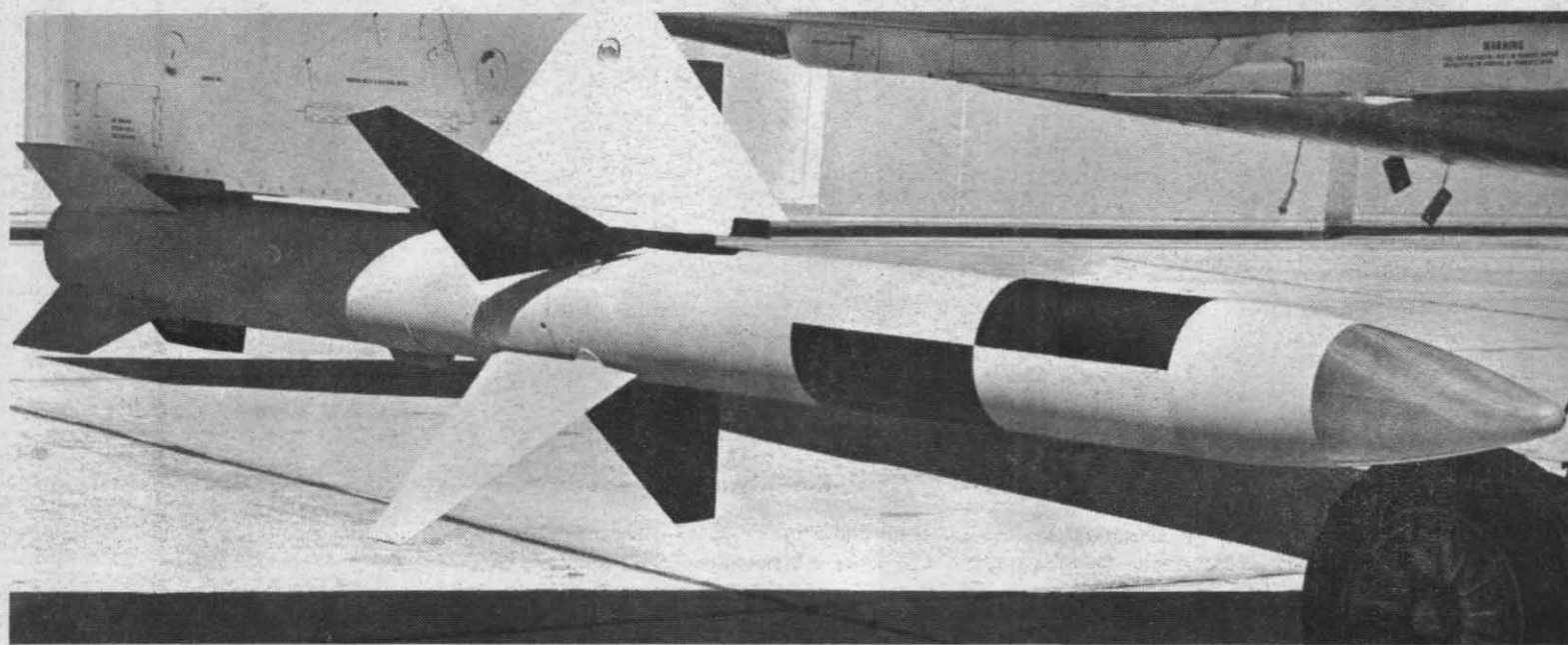
It certainly does not take much imagination to see that the term "aviation heroics" easily applies here. If you need a comparison, you might consider that by the time our combat pilots get an air-to-ground weapon, the VX-5 fliers have already put it through every conceivable test. As if that was not enough, they have widened their scope to include night operations as well as the evaluation of the F-4B Phantom II and A-7A Corsair II aircraft. They also assist fleet squadrons in advanced training in up-to-date delivery techniques.

Staggering Imagination

The imagination and initiative of the personnel at VX-5 is



LAUNCH AIRCRAFT — A familiar order heard every day. This is a group of A-4s being made ready for flight early in the morning. These particular A-4s are assigned to VX-5 although the A-4s are also used by NAF as well as in actual combat in Viet Nam.

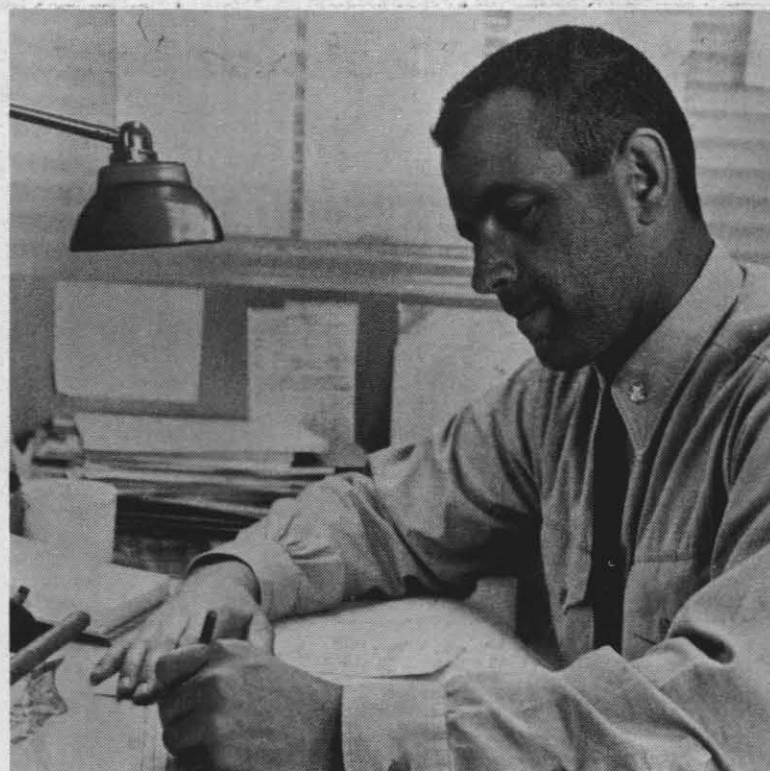


SHRIKE MISSILE — An example of the close support and teamwork between NOTS, NAF, and VX-5 is this Shrike missile, designed for use against enemy radar installations. The

no less than staggering. So far it has led to the development of conventional delivery tactics, the loft, dive and glide, roll-ahead, and over-the-shoulder delivery maneuvers for both nuclear and conventional weapons; design and development improvements which have increased the reliability and effectiveness of smoke and spray tanks; the development of a new delivery technique which reduces aircraft vulnerability and which also increases weapon effectiveness, and the development of an accurate low altitude, high speed weapons delivery tactic utilizing jet aircraft.

As was previously mentioned, we were allowed to actually fly on some of the various tests. Some of these tests combined the efforts of both NAF and VX-5. It is truly an experience that one will never forget. Forgive us however, for not requesting a ride in one of the VX-5 supersonic jets. After watching their abilities from the ground, we decided that our old civilian hearts just would not take it.

RESPONSIBLE MEN — Long before a pilot is ready to make his flight, the ground crews go through it bolt by bolt to make sure that it is safe and ready to fly. These dedicated men have earned the full respect and trust of their pilots. In this picture, one of the crewmen is checking out the cockpit of the new TA-4F to make sure everything is ready. The TA-4F is a two seat version of the A-4.



DUTIES VARY — VX-5's LCdr. W. Turlay, although a qualified pilot, doubles as Project Officer. Here he is working on a never-ending pile of paperwork.



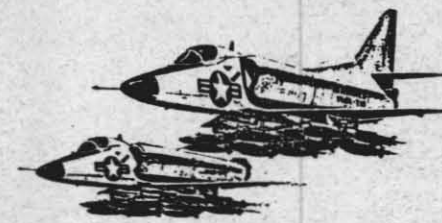
ROCKETEER SPECIAL FEATURE



Naval Air Facility

Air Development Squadron Five

U. S. NAVAL ORDNANCE TEST STATION — CHINA LAKE, CALIFORNIA



Heroics Found In Naval Aviation Is Not Confined To Combat Flying

BY DAVID L. KIMSEY

To an overwhelmingly vast majority, the slightest mention of aviation heroics will automatically bring to mind the word "ace." This same vast majority will then conjure up an image of anything from an old Sopwith Camel shooting down a Fokker over the trenches of France to a supersonic jet, firing a missile in Viet Nam.

Although there is certainly nothing wrong with this very popular image, it is not a true description of aviation heroics. There is much, much more to it, and two prime examples can be seen right here at China Lake. The Naval Air Facility and Air Development Squadron Five.

In order to show no favoritism, these two organizations will be discussed in the order of the missions they perform. Further emphasis is placed on the fact that although these two facilities are located together, they are two distinctly separate units, each with a Captain as Commanding Officer and a full complement of personnel.

Naval Air Facility

The Naval Air Facility, commanded by Captain R. F. Schall, boasts a complement of

approximately 30 officers and 500 men. Although NAF is located within the confines of NOTS, it is a totally separate organization, and under different circumstances, would probably function as a full-fledged Naval Air Station all by itself.

To define the purpose of NAF in one sentence is a fairly simple matter.

They provide pilots, aircraft and facilities to support the research and development efforts of NOTS, including the feasibility evaluation of the first weapon components to the final testing of complete weapons system.

This however, is the last time the word simple will be used in connection with this organization, for it is anything but that. In addition to the primary function, NAF also maintain the runways and parking areas, provide necessary air transport, and hosts many fleet activities.

While trying to gather information and get a true picture of the feeling these men have for their work, it soon became obvious, due to the extreme modesty throughout the organization, that the normal "second hand report" would not suffice. At this point, permission was asked to actually fly on a few of the missions. It

was granted. In view of this, some of the normal reporting procedures will be abandoned in lieu of the "first hand report."

First Of The Flights

After the required formalities were out of the way, things moved along with amazing speed. Our first flight was in an A-3 twin jet and was rather routine. The pilot was a young man, but struck us as having the knowledge of Moses. He was painstaking in every detail, but at the same time handled the aircraft like it was part of him. For an hour and a half we enjoyed a pleasant flight over the various target areas as well as around the perimeter of the Station. During this time, the pilot and plane captain filled us with more information concerning the functions of NAF than we could have compiled in two days on the ground.

This was destined to be our last so called "routine" flight. The next one really had teeth in it. Although none of the pilots, support officers, or men who work on the aircraft will admit it, we feel that the term "aviation heroics" should definitely be entered here.

Nearly everyone will certainly agree that men who fly

(Continued on Page 8)



CAPT. R. F. SCHALL
Commanding Officer
Naval Air Facility



CAPT. W. B. MUNCIE
Commanding Officer
Air Development Sqn. Five



SHOWS BOTH FACILITIES — This picture, looking almost due west toward the majestic Sierra Mountains, shows both the Naval Air Facility and Air Development

Squadron Five. VX-5 is the group of buildings in the center rear of the photo and NAF is in the foreground. Note runways in the background.



CLOSE TEAMWORK — Close teamwork between a pilot and his Plane Captain is a necessity that goes without saying. Here, VX-5 pilot LCdr. W. Turlay gets a helping hand with his gear after a flight in the squadron's new 7-A7.

Thinkers of the Year are Honored



THINKERS OF '66—Capt. G. H. Lowe, Com-NOTS, presents (l-r) William F. McIntosh and Richard D. Krausman, both of AOD's Aircraft Range Div., with their "Thinker of the Year" awards for the Beneficial Suggestion that resulted in the biggest saving

to NOTS in 1966. The annual award, created in 1956, consists of an engraved statue of Rodin's "The Thinker" and a letter of commendation. The joint "Benny Sugg" saved both time and manpower.

—Photo by PH3 Jerry Willey

The annual Thinker Award for the Beneficial Suggestion which resulted in the greatest savings in 1966 was presented by Capt. G. H. Lowe, Com-NOTS, on Wednesday, March 22, to co-suggestors Richard D. Krausman, General Engineer, Code 3551, and William F. McIntosh, a Research Geodist, Code 3553, for their suggestion as to a method of determining the distribution pattern and fuzing of bomblets from such weapons as SADEYE and ROCKEYE.

Then and Now

Prior to their suggestion, it was first necessary to measure the location of each bomblet from a known point such as a target or grid point by conventional techniques. Measurement was by chaining or distance wheel, which required 18 to 20 men for a period of 10 to 13 hours.

The new method requires 8 men and a supply of 12 by 12 by 1/4-inch thick plywood pan-

els painted black on one side and white on the other. These panels are used to cover each of the bomblets — the black side up if the fuze has functioned, and the white side up if the fuze has not functioned. Then a record is kept of the number of black and white panels laid out to determine if all of the bomblets have been found. The area is photographed from a helicopter and the contrasting black and white panels form a chart, and the distribution pattern may be observed.

Big Saving

This suggestion resulted in an annual cost savings of approximately \$35,000, and as such resulted in the greatest economy in operation from a beneficial suggestion which this Station received in 1966.

The annual Thinker Award was established in 1956 by the Station Commander to honor employees for outstanding participation in the beneficial suggestions program.

Beauties Wanted

Has anyone seen Miss Ridgecrest-China Lake of 1967? Community Councilmen and Jaycees have been looking for her all over the Indian Wells Valley, for the forthcoming beauty contest. She may be a neighbor, girl friend, baby sitter or sister. She is between the ages of 17 and 27, talented, and never married.

Anyone who catches sight of her should call Marge Zinke at 375-4006.

Saturn and Mars

The variety and beauty of objects in the solar system will be featured at the meeting of the China Lake Astronomical Society, 401 McIntire St. on Monday, April 3 at 7:30 p.m.

Slides accompanied by narration by members of the society will be presented on objects ranging from the planets Saturn and Mars to comets, fireballs (bolides), and meteor showers. Many of the slides will be in color.

Also plans for a Mars Observation Party will be discussed for the weekend of April 7, when Mars is near opposition.

Chief of Chaplains Coming To Preach at All Faith Chapel



CHIEF OF CHAPLAINS VISITS — RAdm. James W. Kelly, the Navy's Chief of Chaplains, will be visiting China Lake this weekend and is scheduled to preach at both the 8:15 and 11:00 a.m. Protestant Services at the All Faith Chapel on Sunday, April 2. RAdm. Kelly entered the Navy in March, 1942, and received his B.A. at Ouachita Baptist College, Arkadelphia, Arkansas, in 1939. He was awarded his Master of Theology at the Southern Baptist Seminary of Kentucky in 1940. He was ordained in the Southern Baptist Convention in September, 1933, at the First Baptist Church of Lonoke, Arkansas. His many years of service at sea and ashore are marked by the Bronze Star and Purple Heart medals, and were capped with promotion to his present rank in July, 1963.

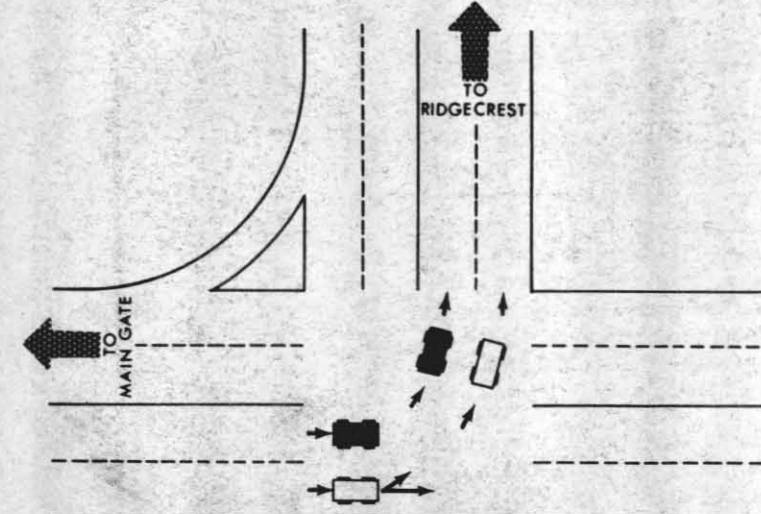


FOR PERFORMANCE — William J. Baker, head of Supply Dept.'s Procurement Management Div.; and Jesse A. Bell, head of its Traffic Div. and acting head of Material Div., receive Quality Step Increase awards from Capt. P. W. Jeffrey, Director of Supply at a ceremony this week.

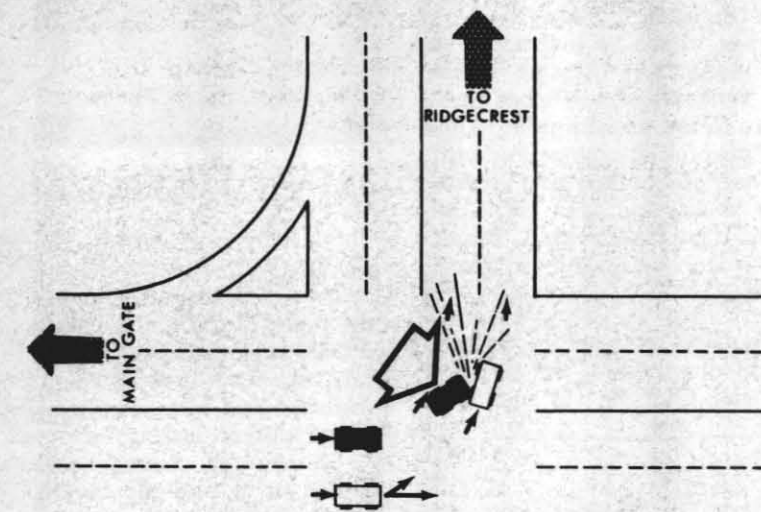


NEW EAGLE — Congratulations go to new Eagle Scout Tom Dunn from Rev. Robert Rufener, (left) who officiated recently at a Boy Scout Court of Honor at Elks Hall, Ridgecrest. Joining young Dunn at the presentation are Mrs. Lorraine Dunn, Capt. R. F. Schall and Dan Dunn, committee man of Troop 3. Also honored were Bruce Hillard and Tom Schall, who received their Second Class ranks.

Watch That Clubhouse Turn!



DO THIS



NOT THIS

EXPERIENCE HAS SHOWN, says the Safety Department, that two objects cannot fill the same space at the same time without altering shape. So watch that turn after you leave the main gate of NOTS! With the new turning lane available, problems have cropped up. For example, some drivers turning from the left-hand lane have tried to go to the outside lane during the turn, and others have tried to use the left-hand lane to go straight through. This has caused some tense moments! Leaving the main gate, drivers in either lane may turn left — while staying in their own lane — but only drivers in the right-hand lane may continue straight.

Award Established For Innovation In Management

Innovators in management among public employees in the Indian Wells Valley are to be recognized starting this year with a brand new award honoring the late R. W. Bjorklund, for seven years head of NOTS Central Staff until his death in July of last year.

The honor is to be called "R. W. Bjorklund Management Innovator of the Year."

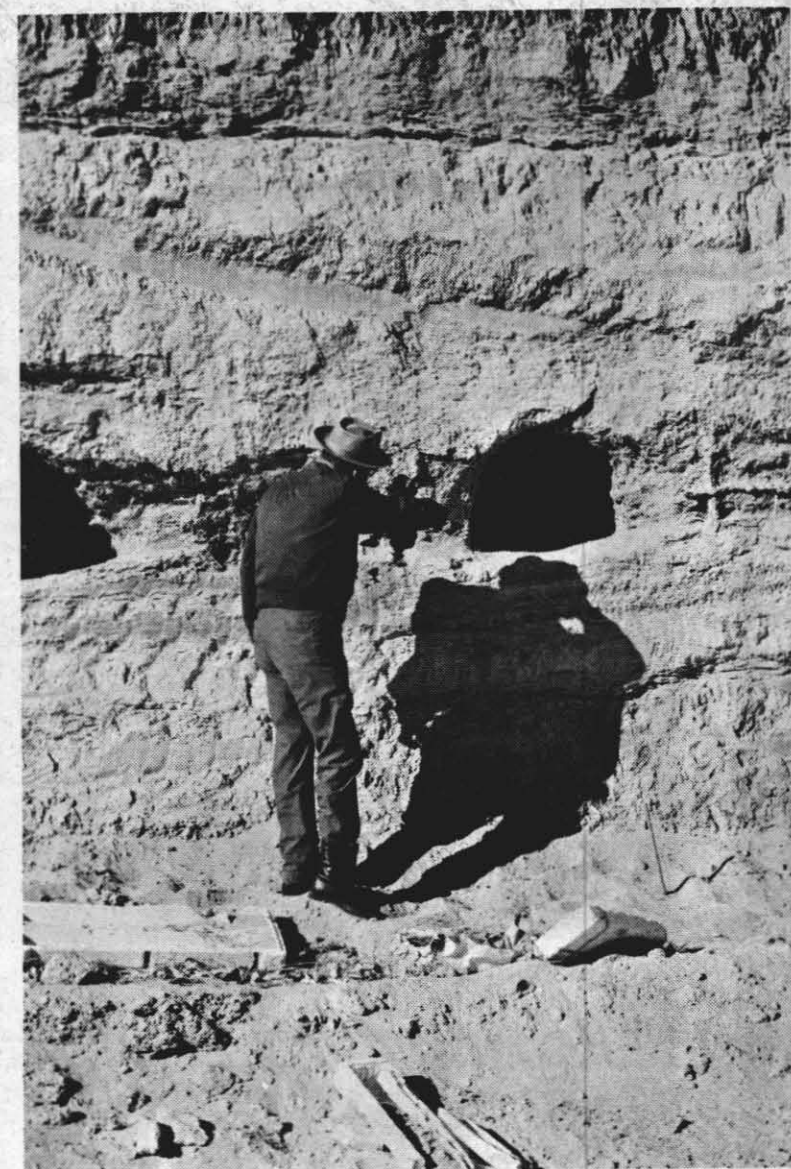
The China Lake Chapter of the American Society for Public Administration is the innovator of this award, which is to consist of either a desk set or plaque plus a certificate. The Chapter president is to appoint a committee each year to select the innovator of the year. More than one award or runner-up award may be granted, or no award for the year may be given, depending on the number and quality of candidates.

Need for Recognition

"Technological innovation in government today is commonplace," observes Fred Nathan of the ASPA. "One deterrent to management innovation is that rewards tend to go to the manager for getting the work out, rather than for using imagination and taking risks to find better ways of doing the management job."

Examples of achievements that are to be taken into consideration for the award are new concepts, imaginative approaches and productive adaptations.

Nominations of line and staff public employees for the award this year should be for achievements made during calendar year 1966, and must be submitted to the Chapter Secretary, P. O. Box 5542, China Lake, by April 30.



ARE YOUR CHILDREN DOWN IN THE DUMPS? Physically, that is. "This photo shows what your youngsters have been doing in the trash dump area east of Richmond Road," says John Lovern of the Safety Department. Here, he is examining one of a cluster of three small tunnel entrances, whose approaches are guarded by broken bottles, cans, pieces of furniture bristling with nails, and other assorted trash. The tunnels were about 30 inches in diameter and were dug some distance back into the dirt bank; connected with each other by cross tunnels. "The earth in this area is soft and sandy and will cave in with the least motion or jar," Lovern points out. "A more hazardous playground could not be found. Children trapped in these cave tunnels would not be found for days." The tunnels have been destroyed by the Explosive Ordnance Disposal team and Safety Department. Large warning signs are being installed at each dump entrance and at its north boundary. "The dump is a restricted area, not a playground," warns Lovern. "Please keep this in mind and bring it to your children's attention. It may save a loved one."

Life Membership for High Service



FOR SERVICE TO YOUTH — Harvey L. Cabe (center) was named recently by the Burroughs High School PTA to receive their honorary life membership for 1966-67, an annual honor recognizing outstanding service to community youth. Here, he is presented the honor at the PTA Founders Day, March 16, by his two sons (l-r) Tom Cabe of Ridgecrest and John R. Cabe of Oildale.

Dr. Ellis Tiffany (left) read the citation at the surprise ceremony. Officers for 1967-68 were elected at the same PTA general meeting. Unanimous ballots went to Mrs. Margaret Jones, president; Dr. William Sanson, VP; Mrs. Ruth Pearson, secretary; Dr. Ray Merrow, treasurer, and Capt. Rodney F. Schall, auditor.



LETTERS OF APPRECIATION — Young David and Jimmy Greene of 56-A Vieweg Circle were recently presented letters of appreciation signed by Capt. Robert Williamson II, Executive Officer. The letters, presented by Security Officer Lt. Samuel McMullen praised the boys' fidelity and integrity in turning over confidential material that they found in the desert.

NOTS Pasadena

VIRGINIA E. LIBBY — EXT. 638



CDR. H. H. SCHLEUNING, JR., NOTS Pasadena Technical Officer (center), confers on technical programs with recent visitors from Anti-Submarine Warfare, Systems Project Office, Washington, D.C., and Naval Ordnance Laboratory, White Oak, Maryland.

land. Left to right — Cdr. G. Nelson, Project Manager, Advance Projects, ASW-SPO; R. A. Nagelhout, Analyst, Systems Analysis Group, NOL; Capt. R. S. Foreman, Director, Surface Ship Division, and Sol Levine, Chief Systems Engineer, ASW-SPO.

Flanagan Leaves Naval Career After 25 Years

During his tour of duty at NOTS, DCCS (DVM) John L. P. Flanagan served as a Master Diver in Ordnance Recovery, also rendering technical assistance to Underseas Science Group. Now retiring from the Navy, he has accepted a position as Superintendent of Salvage with Pacific Marine Ltd., Oahu, Hawaii.

He is leaving his naval career but is taking with him 25 years of action - packed memories which began with his enlistment in May, 1942.

Some of his colorful experiences include two tours at the U.S. Submarine Base, Pearl Harbor where he instructed at the Submarine Escape Training Tank. He served more than three years assisting the AEC at Eniwetok in connection with the various atomic and hydrogen shots, and was with the team that re-surveyed Bikini Atoll one year after weapons Able blast.

Flanagan assisted in the attempted salvage of the SS Stickleback after it was rammed



CHIEF J. L. P. FLANAGAN

by a destroyer off Oahu, Hawaii, in 1958. The submarine was kept afloat approximately eight hours but finally sank in 12,000 fathoms. He was with the salvage team in the attempted salvage and removal of cargo (two million dollars) from the SS Andrea Luckenbach, stranded on a reef off the island of Kauai, Hawaii.

Just previous to NOTS, Flanagan was Master Diver and Assistant Damage Control Officer aboard the USS Coucal (ASR-8) from 1963-1965.

Flanagan attended the Salvage Diving School in Bayonne, N.J.; Gas and Arc Welding School and Underwater Welding and Burning School, San Diego; and Deep Sea Diving School, Washington, D.C.

His military decorations include the Navy Marine Corps Medal, SecNav Commendation for SEALAB II, Good Conduct (5th Award), WWII National Defense, Asiatic - Pacific, Japanese Occupation, China Medal, WWII Victory Medal, Korean Medal, United Nations, Syngman Rhee Presidential Citation.

Flanagan was born in Cambridge, Mass., and raised in Rawlins, Wyoming where he graduated from St. John's High School.

He and his wife, Ethyl, have two children — Michael Shawn 13, and Cindee Eileen 12.

Southern California Chapter Utah State University Alumni Association

In recognition of his service to the Nation at a critical moment, when on April 7, 1966, he was instrumental in the recovery of the Hydrogen Bomb which had been lost in the Mediterranean off the coast of Spain, noting his contribution to national programs in deep ocean technology extending man's capabilities in the depths, including the launching of the Polaris Missile, the Chapter, in grateful appreciation of the outstanding example in citizenship he has provided, which reflects great credit to the University, takes great pleasure

in presenting the
Distinguished Member Award
for the year 1966
to
BrMrl A. Kunz
and names him as

Honorary Member of the Southern California Chapter
Presented this 18th day of March, 1967

Alumni Association
Utah State University



WITH THE MIGHTY ASROC as background, Junior Professional employees from NOTS, China Lake, wind up a day's orientation visit to NOTS, Pasadena where they were

hosted by Pasadena Junior Professionals. The visitors were introduced to Pasadena facilities and programs through technical lectures and an escorted tour of the Station.



NAMED AS HONORARY MEMBER of the Southern California Chapter of the Utah State University Alumni Association, D. A. Kunz, Head, Systems Operations Division, Underwater Ordnance Department (r), receives the scroll pictured at right. Captain G. H. Lowe, ComNOTS, attending the ceremonies, makes the presentation. Kunz, a native of Bern, Idaho, received his B.S. degree in Civil Engineering from Utah State University in 1940.

Bulls Fight To Hold Lead

Summer League Forming
BY RAY HANSON

The El Toros are clinging to their lead in the NOTS bowling league, but the competition, as usual, is panting right on their heels (or whatever Toros have — hooves, probably). The bulls have won 60 and lost 40, while the second-place Low Bowls have amassed a 56.5-43.5 record. Third place belongs to Milt's Marauders, at 55-45. To run down the rest of the league: the What-NOTS are in fourth place (54-46); fifth belongs (ironically) to the Quiet Five (53-47); Mert's Marshmallows are sixth (52.5-47.5); the White Tornadoes are seventh (52-48); eighth place belongs to the Channel Kats (51-49); the Wild Five hold

down ninth place (48-52); the X-clusives and Lyle's Lemons are tied for tenth place (47-53); Cy's Cynics are in 11th place (44-56); Donald's Duck's own 12th place (43-57); and the Hunees hold the lucky 13th spot (37-63).

Incidentally, the NOTS summer bowling league is now in the process of forming. Chances are, the summer league will bowl at the Bahama Lanes at Foothill and Rosemead, according to Bill White, league secretary. Prospective bowlers are not only needed, they are urged to call Bill on Ext. 474 to assure a place in the lineup!



TOP BRANCH HONORED — Six men with Code 40's Biological and Chemical Weapons Br. recently received a Group Superior Achievement Award. They are (l-r) Richard

J. DeMarco, John N. Sichra, Raymond E. Boss, Melvin J. Dull, Warren M. Erickson, Don J. Jacks and Felix W. Sieckowski of Code 55's Mechanical Div., Shop Br.



VISITS, REVIEWS — RADM. A. R. Gralla, Commander, Naval Ordnance Systems Command, arrives at NAF Tuesday, March 21, for a day of reviewing projects NOTS is engaged in for the Command. Greeting RADM. Gralla are (l-r) Capt. R. F. Schall, CO of NAF; Capt. W. B. Muncie, CO of

VX-5, and (r) Capt. G. H. Lowe, ComNOTS. RADM. Gralla discussed the progress of digital fire control, bombardment rocket, shipboard chaff rocket system and shipboard chaff rocket decoy system and rocket-assisted projectile programs with project managers, and met with senior managers.

PROMOTIONAL OPPORTUNITIES

(Continued on Page 2)

Accounts Maintenance Clerk (Typing), GS-3 or 4, PD No. 430056, Code 30024 — This position is in the Budget and Fiscal Branch, Systems Development Department. The incumbent is responsible for the verification of validity of stub requisitions, travel orders, memorandums and contracts; logging and assigning stub numbers and travel order numbers for the department; the receipt of and distribution of contracts and purchase orders within the department. Type technical budgets, personnel budgets, technical progress reports, statistical fiscal reports, auxiliary job orders and memos for the Head, Budget and Fiscal Branch.

Clerk Typist or Clerk (DMT), GS-4, PD No. 28441, Code 3012 — This position is located in the Design & Development Branch, Code 3012. The incumbent of this position will provide the necessary secretarial and clerical services required. The work will include preparing and reviewing correspondence, transcribing recordings, obtaining and presenting information and maintaining records and files. The incumbent must be an established typist and must have clerk experience which includes filing, completing of forms and time cards.

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

Clerk, GS-301-4, 5, or 6 (One Vacancy), Code 1132 — Located in Housing, Division of Community Relations Office. Incumbent assigns Station housing; checks tenant in and out of quarters; assesses damage charges; inspects exterior of occupied quarters for compliance with directives governing occupant responsibilities. Experience Required: GS-4 level — General Exp. one year, Specialized Exp. one year; GS-5 level — General Exp. one year, Specialized Exp. two years; GS-6 level — General Exp. one year, Specialized Exp. two and a half years.

Clerk (DMT), GS-301-5, Code 151 — Provides clerical and secretarial support to the special assistant of the office of the Technical Director in areas of program analysis, program planning, etc. Experience required:

one year general and two years specialized. File application for above with Sherry Scher, Bldg. 35, Rm. 26, Phone 71577.

Electronics Technician, GS-7-9, Code 4005 — This position is located in the Test and Evaluation Group, System Engineer Office, Strike Program Office, Weapons Development Department. The incumbent is one of a group of technicians responsible for the assembly and checkout of missiles which are to be used for test and evaluation on the Strike program.

Mathematician, GS-9-12, Code 4055 — The incumbent will perform studies on the digital computer, applying the techniques of communication theory and modern control theory to problems in the analysis of advanced weapon systems and IR search systems. A knowledge of digital computer programming (Fortran IV or V) is desired, and an understanding of probability theory and random processes is desirable. File applications for above with June Chipp, Bldg. 34, Rm. 26, Phone 72676.

Pasadena

To apply for positions, contact Christine Marchand, Pasadena Personnel Division, Extension 273. A current SF-50 must be submitted when applying.

PUBLIC WORKS VACANCIES
Engineer (Hoisting & Portable), WB-11, two vacancies; up to one year duty station: San Clemente Island.

Heavy Duty Equipment Mechanic, WB-11, three vacancies; two temporary up to one year, one permanent; duty station: San Clemente Island.

Automotive Equipment Operator, WB-9, one vacancy; up to one year duty station: San Clemente Island.

Electrician, WB-11, two vacancies; up to one year; duty station: San Clemente Island. Maintenancemen, WB-8, one vacancy; up to one year; duty station: San Clemente Island.

UFO Sighted, Lands Near SNORT Track



HIGH FLYER — Larry McMillin (left), builder and launcher of "UFO" which made unscheduled two-hour-plus flight to SNORT, cranks up .049 cubic inch engine with help of "co-pilot" John Wooldridge. McMillin has attached a "de-thermalized" device to tail for future flights in tricky desert air.

—Photo by PH1 Jerry Williams

At about 5:30 in the afternoon last Tuesday, March 14, an Unidentified Flying Object — a UFO — was reported to LCdr. Alan F. Brown, then Officer of the Day at NAF.

LCdr. Brown notified the tower, where the UFO was soon sighted visually. It was no matter of great consequence; no visitation from outer space or any occasion for excitement, understand — just an aircraft circling around all by itself and unattended over NAF, and headed for the north ranges.

Fortunately, as it turned out, the aircraft was only a very small one — with a wingspan of 40 inches, and weight of just a few ounces, and powered by a two-cycle reciprocating engine of .049 cubic inch displacement.

"It was just getting dark when a man called to say his free-flight model plane had gotten away and was circling toward NAF," reports LCdr. Brown. "People in the tower looked for it and saw it a couple of times, but then lost track of it."

It was finally recovered the next day by Robert F. O'Neill of SNORT, from the spot at which it had finally come to rest on the track access road — after over two hours of free, unpowered flight.

It had been supplied on its maiden flight with 30 seconds of fuel.

The builder and flyer of the high-flying model plane is Larry McMillin, a technical writer at Genge, Inc., in Ridgecrest. He and his "co-pilot" and co-worker John P. Wooldridge launched the newly completed model at a spot two miles south of Inyokern Road and halfway between NOTS and Highway 395.

The flight was to be just a short trial, but weather conditions had something more in store. No sooner had the little craft climbed into the air, than a "thermal" of hot rising air grabbed it and sent it soaring, even after the engine had quit.

"We watched it climb higher and higher," says McMillin, "and saw it rise to what looked like over a thousand feet. We watched it for about 45 minutes and tried to follow it in the car when it started to move toward the northeast."

The craft had wandered over Sandquist Spa when the ground chase had to end, and at about that time a large bird, perhaps a hawk, had become attracted to it and was counter-circling around it.

McMillin then called NAF Operations, and notified LCdr. Brown. McMillin and Wooldridge plan to launch the model plane again, but this time with a simple device called a "de-thermalizer" attached to the tail. This is a rubber band holding the elevator in a neutral position, with a wick-fuse attached to it. When the burning fuse parts the rubber band, the elevator flops up and stalls the model plane — thermal or no thermal.

"The next time, we'll use full power and a full two-minute tank of gas," says McMillin. "After all, I've put some 50 hours of building time and \$30 into it, and I wouldn't want it to get shot down some day by a Sidewinder!"

Nine Have Filed As Candidate For School Board Job

Grant C. Pinney, Assistant Superintendent for the China Lake Elementary School District, has announced that two women and seven men have filed candidacy for the School's Board of Trustees. The election will be held on Tuesday, April 18. Voting will take place in the Groves and Richmond School auditoriums and in Room 41 at the Murray School.

Those who have filed are: Judith H. Lind, Martha Mason, R. M. (Rod) McClung, Clyde Hazen, George Linstead, Gerald H. Hillebrand, Donald Stoffel, Roy Conover, and Edwin Swann.

CHAPLAIN'S MESSAGE

"Purim: From Persia To Denmark"

BY STUDENT RABBI MEL SILVERMAN



Last week observant Jews the world over celebrated the festival of Purim, derived from the biblical story of Esther, one of the most dramatic and best-told stories in all literature. Generations of Jews and Christians have retold it with undiminished interest. History itself has re-enacted it time and time again; for many Hamans have risen against the Jews, and Mordecais have appeared to save them in many countries throughout the past two millennia.

Yet the truth of the original story — in spite of the European holocaust — has in recent times been called into question. Modern biblical scholarship finds no mention at all of the event nor its chief actors in any of the records or inscriptions of ancient Persia.

There are internal problems as well: neither Esther nor Mordecai are Jewish names; the former derives from the goddess Ishtar and the latter from the god Marduk, principal deities in the Babylonian pantheon. Furthermore, the story contains not a single mention of the name of God. It is apparently a secular story from beginning to end: the miraculous deliverance is achieved by purely human means.

Yet scholarship leaves untouched the higher truth, so memorably re-enacted for us but two decades ago: the heroism of the Danish people led by their king who saved all their Jewish citizens from the hands of Haman-Hitler.

But for the moral courage of such men, no Jew living now can truly appreciate the Scroll of Esther without first uttering, with particular thanks to God, the prayer, "Sheheyanu," ("Thou has kept us alive").



BRAND NEW WARRANT — George H. King gets an assist from his wife Sylvia with his new warrant officer shoulder boards. WO King is the 13th to make the rank in the Navy under the new Aviation Control category. He is due to leave NAF in two weeks for an eight-week school in Florida then a nine-week school in Georgia. After that he is slated for duty in Japan.

PROMOTIONAL OPPORTUNITIES

Electronics Technician, GS-7 or GS-9, Code 4544 — Incumbent is responsible for the acquisition of data from conversion of electrical, electronic, magnetic, mechanical or optical signals by transducers which produce information in analog or digital form. Must instrument high speed cameras with electronic equipment. Must be able to design and alter electronic equipment and overcome design problems. Must keep records and furnish reports to optimize data reduction. Qualifications: Two years (for GS-7) or three years (for GS-9) progressively responsible experience in electronic instrumentation. Must be able to use electronic formulas to solve problems involving time constants, charge, power, reactance, impedance matching and other factors arising from integrating instruments into a complete system.

Mechanist, WB-3401-11, JD No. 169-4, Code 4571 — Mechanist wanted who is willing to train for a rating of Machinist (Experimental Propellants), WB-3401-13, JD No. 278. Training period is three months.

File applications for the above with Evelyn Moore, Bldg. 24, Rm. 24, Phone 72722. Electronics Technician, GS-9, PD No. 43-5027, Code 3519 — Designs, lays out and fabricates RF and low frequency subsystems and systems, modifies subsystems, performs tests on subsystems and flight test systems, maintains flight test equipment (video cameras, tape recorders, transmitters and receivers). Position requires knowledge of fabrication techniques, test equipment, components and ability to perform liaison with other station shops. This position may be filled as an Electronics Mechanic JD No. 185-2.

Mathematics Technician, GS-4 or 5, Code 3545, PD No. 725225 — Located in the Analysis Branch of the Aircraft Projects Division. The purpose of the position is to: (1) Prepare program decks for electronic data processing equipment, (2) Extend monographs from primary sources, (3) Compute and plot solutions of ballistic equations for various parameters. A working knowledge of card punch procedures and operations (e.g. 209) is desirable, and must have completed at least one year of mathematics which included Trigonometry.

Electronics Technician GS-9, PD No. 735-027 or GS-11, PD No. 735028, Code 3536 — Position located at Hangar 3, NAF, in AOD's Airborne Instrumentation Branch. Forty per cent of the duties involve operation, improvement, and maintenance of a small telemetry ground station (ADAC). ADAC is used primarily for gathering data in real-time for captive missile flight tests. Remaining 60 per cent of the duties involve the design, modification, packaging, and evaluation of instrumentation systems. Incumbent must be able to work with scientists, engineers, and technicians in a cooperative way. Must be able to speak clearly in order to communicate with A/C pilots. He must have specialized experience in one or more of the following areas: telemetry, oscillographs, magnetic tape recorders, UHF communications, or test equipment maintenance.

Test Mechanic (Experimental Electrical Equipment) JD No. 131-5, Code 3531 — Fabricates interconnecting electrical cable for use in aircraft instrumentation installations. Frequently wires electrical and electronic components for installations that are frequently one-of-a-kind and removes the circuitry from aircraft at conclusion of tests or upon aircraft turn-in. Applicants must have had four years of progressively responsible experience in the set-up, operation, installation, fabrication, repair, and adjustment of experimental electrical test equipment, experimental electrical mechanisms, programming systems, or related experimental electrical equipment. At least one year of experience must be on experimental electrical systems. Applicants lacking only one year of specialized electrical work on experimental equipment will be considered for this position.

File application for above with Mary Morrison, Rm. 32, Bldg. 34, Phone 72002. Clerk-Typist GS-4, PD No. 55300, Code 3571 — Incumbent is secretary to the Chief, Sideinder Chaparral GCG Project, Engineering Department. Receives and reads all incoming correspondence, distributes a daily down follow-up, reviews all outgoing correspondence for accuracy, provides typing and clerical services to all project personnel, maintains office files, makes all travel arrangements and itineraries, receives and screens telephone and business calls, schedules appointments and serves in a liaison capacity between Project Office and other offices.

Supervisory Electronic Engineer (Instrumentation) GS-11, Code 5531, PD No. 15AAMI — Incumbent is Head of the Telemetry Section, Systems Electronic Design Branch, Electromechanical Division, Engineering Department. Incumbent's general assignment is the design, development, testing, evaluation, documentation, and monitoring of procurement of telemetry units for this Station. The spectrum of duties entailed by this assignment ranges from original design to production liaison with the manufacturer.

Mechanical Engineer (Ordnance) GS-12, Code 5561, PD No. 155049-1 — Position located in the Fleet Engineering Division, Weapons Installation Branch. Incumbent acts as Senior Project Engineer on missile, missile launching and associated equipment programs for the Navy, Air Force, or other agencies as directed by the Navy. He is responsible for the design, producibility and functional capabilities of projects assigned to him. He is also responsible for the evolution of in-service equipment modifications and procedure changes to assure continuous fleet readiness with these items.

File applications for above with Joan Cheever, Code 657, Bldg. 34, Rm. 34, Phone 71514.

(Continued on Page 3)

'DESERT PHILOSOPHER'

Tortoises And Snakes

By "POP" LOFINCK



Something I forgot to mention in my column last week about Tortoises. We made a test to see if they could still swim.

We tested three sizes in a big tub of water — thinking they might swim when quite young and forget how later. So we lowered them gently into the water — they took a deep breath and sank to the bottom and when they ran out of oxygen, in about a minute, they became frustrated and couldn't surface for more air. Seemingly they couldn't get their feet to synchronize or couldn't work their feet fast enough or have grown too heavy to float — so we put them back on the desert.

The sea or ocean turtle takes a deep breath and submerges until it runs out of oxygen. Being cold blooded, they don't need much oxygen.

Whales and Dolphins and Porpoises have big lungs — can stay submerged for long periods. How long? — I haven't found out yet.

Don't be confused by a similarity of spelling. The Tortoise is a reptile — one of the oldest — estimated 150 million years. The Whale and the Porpoise are mammals that live in the ocean. They used to live on land, but went back to the ocean to live.

Turtles predate the dinosaurs — which were also reptiles — but the dinosaurs could not adapt to changing environment so they perished.

The interesting thing is that although the ancestors of the Tortoise lived in the seas for millions of years, the Mojave Desert Land Tortoise has been out of the sea and lived in the desert for so long that it has seemingly lost the ability to swim — even as the Whale has lost the ability to gallop around on land.

Put a puppy dog in the water — they paw the water furiously and presto, they are swimming. I guess that indicates how much more intelligent the puppy dog is than the Tortoise. What reptiles lack in intelligence they seem to have in instinct and vice versa — what humans lack in instinct they try to make up with intelligence.

I've been told that the Turtles in the Nile River dig a hole and lay their eggs just above where the highwater will come to — and it varies year to year. Now with these new dams on the Nile — how will these Turtles instinct work about where to dig the hole to lay their eggs.

Now is the time of year to reeducate your self to be snake cautious. I have to do that every Spring — I get careless during the Winter when the snakes are in the ground hibernating.

That doesn't mean you should be scared of snakes. You must be traffic cautious when crossing the street — you're not scared of traffic — just alert and cautious.

So far as I could find out, no one has died of snake bite, in this area, since the Base was established. A few have been bitten — but not hospitalized. One reason is that the Medical Department cautions all who work or drive in the outer ranges to be careful.

Here are some risks to be avoided: 1. You go into a little ravine in the shade of overgrowth near a spring where it is cooler. In the poor light the coiled rattlesnake looks like cowdung — until you step on it. So, you should wear boots.

2. Or you jump into an open ditch — where a coiled snake is sunning itself in the Springtime. You quickly discover it is not cowdung.

3. In the summer in the midday heat, rattlesnakes coil up in the shade of a bush to sleep — they don't hear well — so you might step over a bush onto a sleeping snake — a bit late — unless you are wearing boots.

4. You are climbing up a rocky place and reach up to get a hand hold to pull yourself up — and zip, a rattlesnake is there. You shouldn't do that!

5. You go into an old shack and reach down to pick up something in a corner or on a rubbish heap — and zip — you may get bit on the hand. So be careful! But don't get excited! Some years ago there were two cases like that. A man got bit on his hand. He had a snakebite kit in his pocket — he was an ex-paratrooper — calm — and didn't even get sick. Two weeks later a similar case of another man. The man was so scared he vomited — and was rushed to the Dispensary.

Always carry a snake bite kit with you — in your pocket — not in your car — and learn how to use it.

If you do get bit — the subject of treatment seems to be controversial.

So I quote below from Dr. Elmo R. Zumwalt — the Station's Industrial Medical Officer, who has had much experience in this field. He has issued these first aid instructions for snakebite and scorpion sting for all men who drive on the ranges.

1. Tourniquet — use small shoe string or heavy cord — it is better than a kerchief. Snug up smartly, but do not cut off deep circulation. Tie tourniquet above bite, e.g. base of finger, if fingertip bite; above forearm, if hand bite; mid-leg, if ankle bite.

2. Use crushed ice or ice water. Immerse entire hand or foot.

3. Keep patient at rest in reclining position if possible. Do not allow patient to exert self.

4. Get patient to the doctor or hospital promptly.

5. Do not cut area of wound. Allow doctor to do this. Too much cutting is worse than waiting for medical attention.

THE LOCKER ROOM

Best Ever

By ED RANCK



The sports spotlight was on Louisville, Ky., this past weekend, where the UCLA Bruins capped off a perfect season by winning the 1967 NCAA basketball championship. The Bruins defeated the Dayton Flyers 79-64, a team that most people felt would never make it through the regionals, let alone get in the finals.

Like so many of the other UCLA victories this year, the game was a ho hum affair, with little doubt as to the final outcome. A 12 point spurt by UCLA midway through the first half put the Bruins ahead 20-4, and that was the ball game.

Immediately following the game, speculation began among sports writers as to how good UCLA actually is, and a lot of people are wondering out loud if any college team has a chance to beat the Bruins in the next two years. UCLA has four sophomores on the starting team, among them Lew Alcindor, who eventually may become the number one basketball player of the universe.

90 IN A ROW

There are members of the Southern California literati that have even gone so far as to say positively that UCLA will win at least 60 more games before anyone beats them. This means that they should go undefeated until Alcindor and Co. graduate, or the rules are changed to allow the opposition to use napalm.

With the experience gained by playing together this year, they should be that much tougher next season, but to concede them two more undefeated years when the first one is barely over is a little ridiculous. It puts the team in such a position that if they win them all, so what, but if they lose one, it will be a catastrophe second only to the great "civic disgrace" that descended on the city of Los Angeles when the Dodgers blew the 1962 pennant to San Francisco.

The team does, however, come about as close to being a flawless college basketball machine as any club that ever existed. The pattern of play is reminiscent of Phil Woolpert's great USF teams of the middle '50's, although coach John Wooden has added a few variations.

Wooden has made the zone press one of the most devastating defensive maneuvers in basketball. His teams have always been strong on fundamentals, and the press, plus what has been called a "controlled" fast break, are the instruments that Wooden has used to make UCLA the most dominate team in college basketball over the past four years.

ALCINDOR: HIS TALENTS AND TROUBLES

Alcindor is the key to UCLA's success, and Wooden is the key to Alcindor's. With a man like big Lew coming to the team this year, it may have been rather tempting for Wooden to change the Bruin's style of play to fit Alcindor, and turn the big man into a scoring machine. The same thing was tried with Wilt Chamberlain a few years ago, but it wasn't until Wilt was transferred to Philadelphia last season that he became a complete basketball player.

Under Wooden, Lew is fast becoming the complete player as a college sophomore. The threat of Alcindor scoring from in close is enough to give opposing coaches insomnia, but his board work and passing against the sagging defenses is the real reason why the Bruins are so close to being unbeatable. Alcindor is better than either Bill Russell or Chamberlain were at this stage of development, and when the lad finishes growing up, he could be practically unstoppable.

Lew has mentioned during the past year that he would consider quitting UCLA if he had a decent offer to play ball with a college back east. One of the reasons was that he didn't figure he was getting a fair shake from the West Coast referees. Like Chamberlain, however, he quickly learned that some subtle maneuvers, such as a well aimed elbow at the ear, will discourage the rough stuff.

With this problem solved, the more pressing one concerning Alcindor's environment arose. It seems that Angelinos wear crazy clothes and talk funny, not at all like back in "New Yawk."

Playing ball for John Wooden should be enough to compensate for all these hardships, however. With all that Wooden can teach the big guy in the next two years, Alcindor may be the first basketball player to be a millionaire by the time he reaches twenty-five.

Basketball, though has always found a way to neutralize the big man. For George Mikan they put in the three second rule, for Chamberlain they made the foul lanes wider. For Alcindor, well, would you believe germ warfare?

Buy U.S. Savings Bonds

Local Club Hears Talk On Gun Law

The recent monthly general meeting held by the Sierra Desert Gun Club featured an informative talk by H. Bernard Mathes, the club's Legislative Consultant, and the adoption of a resolution stating the club's position with regard to firearms control legislation.

Mathes pointed out that shooting enthusiasts and gun owners are often kept so busy fighting some of the extremely poor gun control legislation currently being considered in Congress which would place restrictions on the acquisition of firearms, that they can find little time to adequately support legislation aimed at the misuse of firearms.

The adopted resolution points out that attempts are being made to equate crime rates with private acquisition and possession of firearms and that this philosophy, if adopted by Congress, will open the door to disarming law-abiding citizens, leaving them sure and easy prey to the violent, lawless, and totally irresponsible element of society.

The resolution also emphasizes that attempts to discourage criminal use of firearms by invoking schemes which place severe and stringent

regulations on the sale and possession of firearms are indirect and ineffective in disarming the lawless, but instead, offer increasing harassment to those who try to abide by the law in acquiring firearms for legitimate purposes. The failure of such schemes to eliminate criminal use of firearms results in even more stringent attempts to control possession and sale of firearms so that the law-abiding citizen is ultimately disarmed while the criminal continues to shoot and kill.

The resolution also notes that strict gun control jurisdictions do not have consistently lower rates of violent crime than do areas which have little or no gun control laws and that it is known that a citizenry possessing arms and skilled in their safe and proper use offers a distinct discouragement to criminal attack.

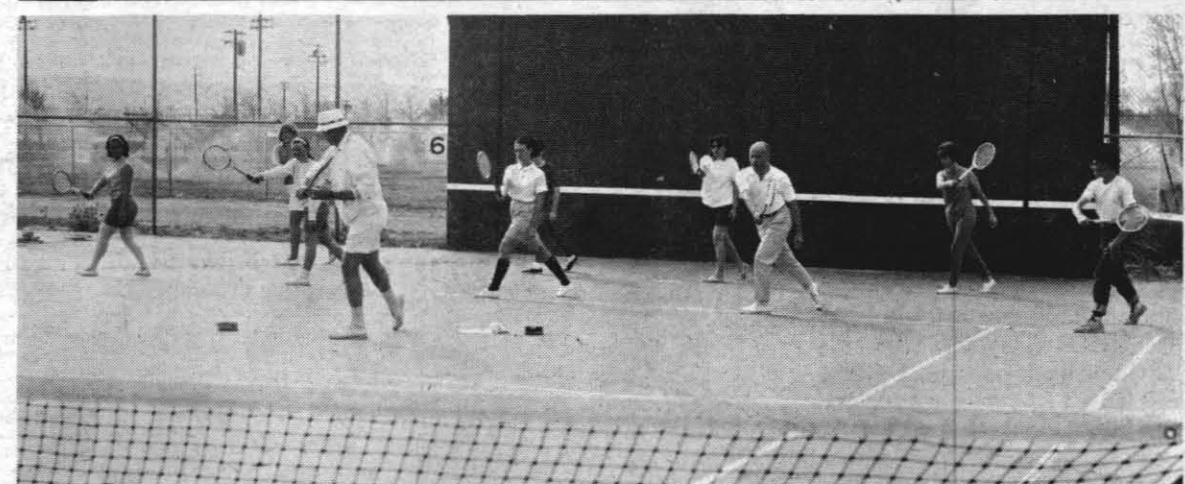
In the resolution the Sierra Desert Gun Club went on record in opposition to all legislative proposals which prohibit or impose unnecessarily severe restrictions upon the interstate firearms transactions between individuals or between an individual and a licensed dealer or manufacturer.

The club made the recom-

mendations that the Federal Firearms Act be retained in Title 15, U. S. Code, (Trade & Commerce) but that it be amended to remedy defects, long known to exist; by imposing a minimum age requirement on federal firearms license holders; by requiring a sworn affidavit to accompany each firearms order which goes to an individual or licensed dealer or manufacturer that assures the seller that the person ordering the firearms is of proper age, is not falsifying his identity, and is legally entitled to receive the firearms; and to provide that it is unlawful for any person or licensee to knowingly transport or ship a firearm into another state in violation of law of the state and locality to which it is being shipped.

It was also recommended that criminal use of firearms be discouraged directly by enacting legislation at all levels of government that impose additional, consecutive prison terms for conviction of crimes committed with firearms.

In concluding his presentation Mathes urged that citizens having opinions on the firearms legislative question exercise their right and duty of expressing these opinions to their legislators.



TENNIS CLASS — The Special Services Lifetime Sports Foundation tennis clinics continued through the second session last weekend. So far, over 70 local residents are

participating in the program. This particular class is being instructed by Buck Bustard, shown in the foreground. —Photo by PH1 Gary Bird

Tennis Tourney Recently Held By Local Club

The China Lake Tennis Club Saturday morning workouts were highlighted by what was called the "Grab Bag Tennis Tournament." It was a doubles tournament with both students and instructors participating.

Buck Bustard teamed with Judy Strey to win the impromptu tourney with the team of Chuck Walden and Sandy Johnson finishing in the runner-up spot. By the way, both Sandy and Judy are students participating in the Special Services Lifetime Sports Foundation.

Members Invited

The China Lake Boat Club is open to all who are interested in boating, skiing and fishing. The purpose of the club, which now boasts over 40 members, is to further the interests of boat owners and enthusiasts.

Persons interested in joining the club, or receiving information, are asked to contact Mrs. Billie Bird at China Lake 375-7687.

BOWLING NEWS

Ken Dalpiaz continued to set a blistering pace in league action at the China Lake Bowl last week. Dalpiaz rolled six straight 200 games in league play, hitting 664 in the Thursday Night Desert League, and 657 in Monday's Premier League.

Ridgecrest Bowl opened up a four game lead in the Premier League with three weeks to go. The league leaders took three games from the tailend Mercury Movers, to widen the gap over second place Arden Farms.

In other bowling action, Ski Kokosinski had a 248 single, and Fred Dalpiaz hit 603 in the Premier League. Don Tucker's 607 also highlighted the Thursday Desert League.

The 1967 City Junior Bowling Tournament will begin tomorrow at the China Lake Bowl. The tournament will open with the team event, which will be held beginning at 9 a.m. Saturday, and at 10 a.m. Sunday. The second half of the tournament, which will include the singles and doubles events, will be held at Ridgecrest Bowl, Saturday and Sunday, April 7 and 8.

Plans Are Formed To Start A Local Club For Hikers

Plans for forming a hiking club for China Lakers was announced this week by Emory Westlake. Object of the organization, he said, is to encourage people who like to tramp the outdoors to get together for easy to moderate, non-technical hikes. Most of the hikes will be one-day outings to the Sierras or the desert. Trips will average from four to eight miles a day. Back-packing excursions over weekends will also be included in the new club's activity.

According to Westlake, the club is open to all from 6 to 60—adults, families and youngsters. He stressed it will offer excellent opportunity for novices to learn woodsmanship and have a lot of fun doing it.

Organization meeting for the China Lake Hikers' Club will be Thursday, April 6, at 7:30 p.m. in the lounge of the Dorm at 50 Blandy. Highlight of the evening will be a showing of color slides of Yosemite, the Tahoe area and other High Sierra spots. Refreshments will be served free of charge.

The Rocketeer

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DIVINE SERVICES

Christian Science (Chapel Annex)—Morning Service—10 a.m. Sunday School—10 a.m.

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 Station 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. Confessions—7 to 8:00 p.m. Saturday.

NOTS Jewish Services (East Wing All Faith Chapel)—8 p.m. every first and third Friday.

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

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