

Placement Tests Set For Bakersfield College Here

Tests for placement in courses at the China Lake Division of Bakersfield College will be given Aug. 6, 7 and 8 at Burroughs High School, Dean Omar H. Scheidt announced this week.

The tests are used, Scheidt said, for placement in certain courses. They are not used to determine eligibility for admission, he added. Admission is granted to all those with high school diplomas or who are over 18 and can profit by instruction offered.

The English Classification Test is to be given on Aug. 6 at 7 p.m. This test must be taken by all students expecting to take courses in English. It is used to determine which class a student should attend.

An examination in chemistry will be given at 9 p.m. on the same day. The test is used to determine placement in Chemistry 1A, Scheidt said. Only those who have completed one year of high school chemistry and a year of algebra should take the test since those are also prerequisites to the course.

On Aug. 7 the School and College Ability Test is to be given at 7 p.m. The test must be taken by all students and is used for placement in History courses, Life Science 11A, Psychology 1A and shorthand, according to the Dean.

A reading test, to be taken by all students, is to be given at 8:30 p.m. the same evening.

A mathematics examination is to be given at 7 p.m. Aug. 8.

This test is required for admission to Mathematics 3A, analytic geometry and calculus. Those taking the test must have completed a course in trigonometry, the Dean said.

Registration for the fall semester will be held August 22, 26 and 27 from 5 to 8 p.m. and on Aug. 23 from 8 a.m. to 5 p.m. in the library at Burroughs.

Dean Scheidt pointed out that polo shots are required of all students. These must be taken either before or shortly after the beginning of the semester.

Counseling will be available to students beginning Aug. 5. Students may set counseling appointments daily Monday through Friday and Monday through Thursday evenings by calling FR 5-2348 for an appointment, Scheidt said.

Students who expect to attend the college in the fall should ask high schools and colleges attended to send transcripts of work directly to the college.

'Aerospace Workshop' Teachers

(Continued from Page 1)

turn to the classroom," the petite educator said. "A teacher must have the answers for if she is not going to be outpaced by the alert air-conscious youth of today."

Helen M. Farrer, a high school speech instructor from Boise, Idaho, was amazed by our community. She had expected all desert... not lawns and swank swimming pools.

While here, the educators heard lectures on underwater research by Cdr. L. H. Lippincott, weather modification by Dr. Pierre St. Amand, uses of satellites in geodesic measurements by Fred Ashbrook, Navy guidance systems by R. C. Haugner, and the problems of high altitude flights by Maj. R. A. Walker, USMC.

From Portland

In addition to coordinator Robert Wilcox and the three CAP members, 11 other educators were from the City of Roses. They were Maria M. Beaudin, Ethel P. Beck, Celia L. Chambers, Johanna E. Fuller, Genevieve L. Martin, Helen L. Kirk, Kathryn C. Rutherford, Eleanor A. Schultz, Margaret B. Tobey, Kathryn E. Vance, and Richard T. Stark.

Six From Milwaukie

The largest contingent from outside of Portland was made up of six teachers from Milwaukie which included Janet L. Cartwell and her husband, Lawrence D. Cartwell, Christina H. Ely, Dolores M. Esser, Stanley J. Gatzmyer, and Melville W. Sands.

From other Oregon cities were director Ray Haas, Forest Grove; Rosie M. Alsip, Monmouth; Nell C. Briggs, Corvallis; Marian M. Hathorn, and Grayce E. Hughes, Hillsboro; Mary M. Hawkes, Hood River; Frances H. Herman, Oregon City; Bertha H. Shaw and Gladys I. Stewart, Lebanon; John H. Ahlstrom, Cave Junction; William A. Huff, Canyon City; Albert J. Lefler, Empire; Harlan N. Mayfield, Grants Pass; Robert H. Patterson, Adrian; and David R. Potter.

From Washington State
Yvonne Carson and Helen E. Holcomb, Vancouver.
California and Idaho
Zabelle H. Tracy and Robert L. Harper, Crescent City; Chris C. Spindt, Los Banos; and Helen M. Ferrer of Boise, Idaho.

Discount Coupons Now Available

Discount Coupons are now available for the Ringling Brothers—Barnum and Bailey Circus which is to be held at the Sports Arena in Los Angeles from August 1 thru 13. Coupons can be picked up at the Community Center daily from 8 a.m. to 5 p.m.

Annual Fund Drive Proceeds Announced

A total of \$1,567.43 was contributed by China Lake residents to the Navy Relief Society, Captain Charles Blenman, Jr., announced in a letter to RAdm. K. L. Veth, President of the Long Beach Auxiliary of the Navy Relief Society.



"O" CLUB'S 19TH BIRTHDAY—Capt. F. F. Reck and John DiPol serve Anna Boyd and Maurice Clifton, and Maurice's 84-years-young mother, the first slices of cake commemorating the Officers Club's 19th anniversary last Friday evening. Anna Boyd and Maurice were judged to be the earliest members of the Club who are still at NOTS.

NOTS Men to Attend L.A. SPIE Symposium

Mel Miller of the Test Department's Instrument Operations Division and Jack Leininger of the Supersonic Track Division will be NOTS representatives at the Eighth Annual Technical Symposium of the Society of Photographic Instrumentation Engineers next week at the Los Angeles Ambassador Hotel.

More than 2500 engineers, scientists, technicians and technical administrators from the military and industry are expected to attend. Many are engaged in the development, manufacture, or use of equipment now being used in the nation's space and missile programs.

Reflecting the key role of photo-instrumentation in these programs, a number of discussion panels will cover such topics as missile launching, early tests, tracking, in-flight and extended effects of space on photo-optical instruments.

SHOWBOAT

FRIDAY AUG. 2
"THE GREAT CARUSO" (109 Min.)
Mario Lanza, Ann Blythe
7 p.m.
(Musical Drama) The life of the unforgettable Enrico Caruso, as only Lanza could play it. From his early arrival in New York through marriage and success—even though he led a lonely life due to rejection by society. A bittersweet life.
(Adult and Young People)
SHORT: "Shutterbug" (7 Min.)
SATURDAY AUG. 3
—MATINEE—
"TARGET EARTH" (75 Min.)
Richard Denning
1 p.m.
SHORT: "Clock Cleaners" (7 Min.)
"Iron Horse No. 4" (16 Min.)
—EVENING—
"RIFIPI IN TOKYO" (89 Min.)
Karl Boehm, Barbara Loss
(Crime Drama) Jewel thief plans intricate robbery of a fabulous diamond from the vault of the Bank of Japan and a rival gang tries to move in. Mayhem and murder.
(Adult)
SHORT: "Sorry Safari" (7 Min.)
A Bride Named Emma" (10 Min.)
SUN.-MON. AUG. 4-5
"ERIK, THE CONQUEROR" (82 Min.)
Cameron Mitchell, Alice and Ellen Kessler
7 p.m.
(Action Drama in Color) The Vikings seek revenge for the massacre of a colony by the British and court intrigue adds to the action when twin priestesses become involved. Mammoth battles and beautiful damsels.
(Adults and Young People)
SHORT: "John Glenn Story" (30 Min.)
TUES.-WED. AUG. 6-7
"ISLAND OF LOVE" (101 Min.)
Robert Preston, Georgia Moll
7 p.m.
(Comedy in Color) Boisterous laugh-fest about a promoter who produces a flop picture backed by a gangster. Promoter and pol barely escape to Greece where he dreams up a magic island. It's fun all the way, colorfully scenic.
(Adults and Young People)
SHORT: "Big Top Bunny" (7 Min.)
THURS. FRI. AUG. 8-9
"THE BIRDS" (120 Min.)
Rod Taylor, Jessica Tandy
7 p.m. - Thursday
8 and 8:15 p.m. - Friday
(Mystery Drama in Color) Hitchcock does it again! A small north San Francisco Bay community is attacked again and again by birds despite efforts to thwart them. Unusual action and suspense.
(Adult)

Station to Have Ice Cream Parlor

A concessionaire agreement for the operation of an ice cream parlor adjacent to the Post Office was approved this week by Capt. J. A. Quense, acting Station Commander.

The agreement was made between the NOTS Employee Service Board, headed by Jack Richards, and a partnership firm of Wavey Lee Taylor and Tony Rocek of Bakersfield.

Conversion of the building is now under way. Taylor and Rocek expect to open the ice cream parlor for business later this month.

CROSSWORD PUZZLE

ANSWER TO PREVIOUS PUZZLE
ACROSS
1-Unit of currency
2-Blunt point
3-2nd President
4-New Deal agency (init.)
5-Capuchin monkey fruit
6-Clusia fruit
7-Moccasin
8-Province in India
9-Quarrel
10-Arrow poison
11-Prefix, twice
12-Projecting tooth
13-New Deal agency (abbr.)
14-Unit of weight in India
15-Vessel
16-Runs away in panic
17-Pronoun
18-Old French coin
19-Distress signal
20-Conjunction
21-Make merry
22-Paradise
23-Before
24-Food program
25-Compass point
26-Group of three
27-Stick
28-Speckled
29-Poem
30-Pick out
31-Devoured
32-Animal's foot
33-Shuts noisily
34-Man's nickname
DOWN
1-Snake
2-Greek letter
3-Metal
4-Wolfhound
5-Certificate issued as evidence of debt
6-Part of "to be"
7-Witty remark
8-Blunt point
9-Harvest goddess
10-Crony
11-(colloq.)
12-High card
13-Irish dance
14-Locations
15-Period of time
16-Commitment
17-Paint
18-Near
19-City in The Netherlands
20-Hypothetical force
21-Depart
22-Item of property
23-Unit of energy
24-American essayist
25-Peeling article
26-French article
27-Skill
28-Teece-toed sloth
29-Spock
30-Units of energy
31-Electrified particle
32-Policeman (abbr.)
33-Room in harem
34-Cut
35-Cloth measure
36-Young boy
37-Treek letter
38-Lair
39-Babylonian deity

From _____ PLACE STAMP HERE TO _____

Grade School Registration Starts Monday

Tell 1-8 and Kindergarten Requirements

Registration of kindergarten children and all new pupils in grades 1 through 8 has been set for the period of Aug. 5 through 16, Superintendent Harold E. Pierce of the China Lake Elementary School District announced.

Parents are asked to register the children in the District Office on Murray School campus between the hours of 8 a.m. and 4 p.m. except during the lunch hour, 11:30 a.m. to 12:30 p.m.

Attendance in the summer school session does not constitute enrollment for the regular school year.

Registration Requirements
Kindergarten children must be five years old on or before Dec. 2 1963. Proof of birth date must be presented at the time of registration. Such proof may be presented in one of the following forms: a birth certificate, a baptismal certificate duly attested, a passport, or a legally executed affidavit by the parent, guardian or custodian of the child.

Pupils new to the district who are transfers from other districts must present evidence of grade placement by either a report card, or regular transfer slip.

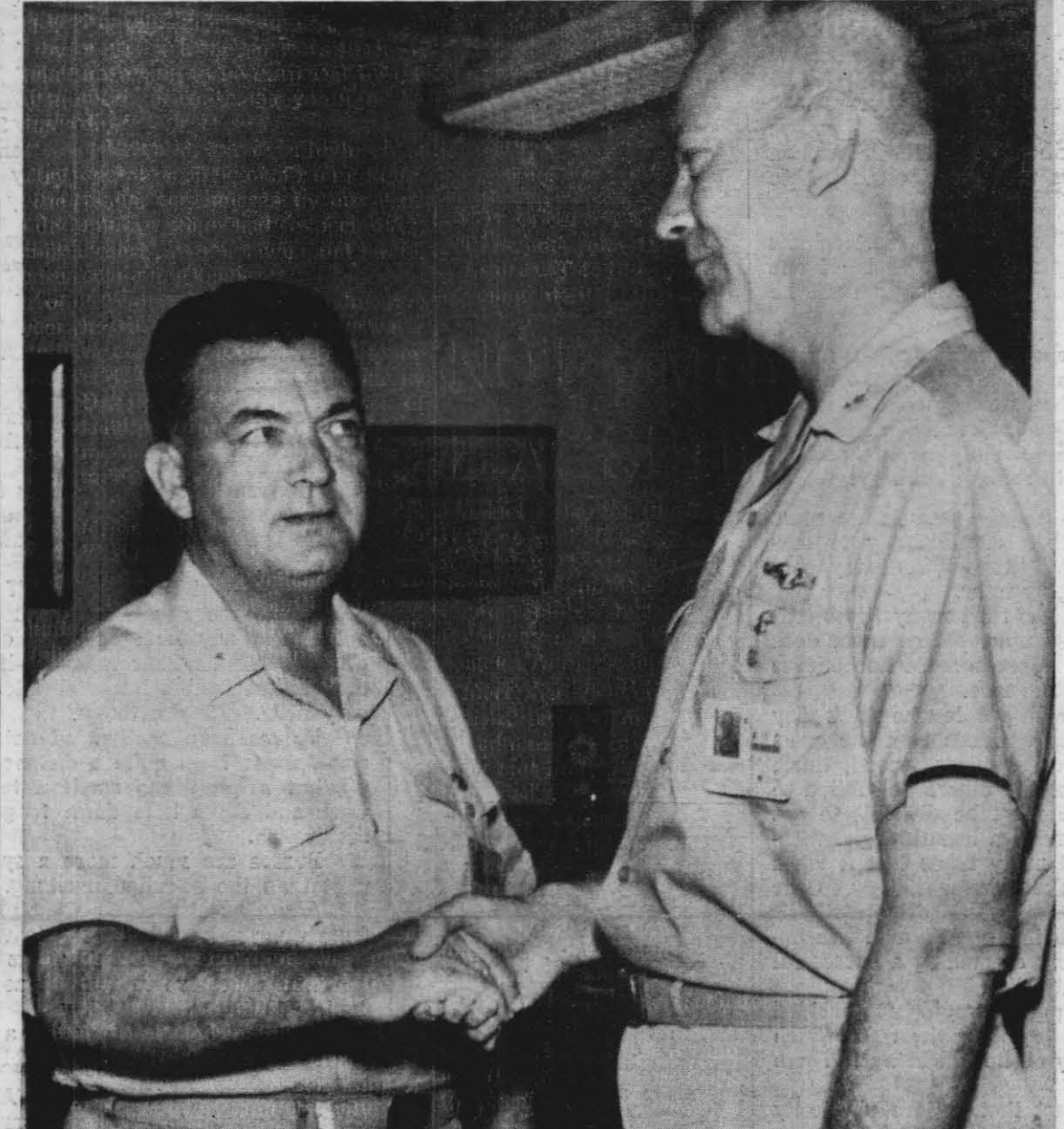
Health History
Both kindergarten and new pupil registrants must present evidence of polio immunization or a written statement by the parent requesting exemption from this requirement because of personal beliefs or medical

(Continued on Page 4)

ROCKETEER FROM UNDER THE SEA TO THE STARS
Vol. XVIII, No. 30 Naval Ordnance Test Station, China Lake, California Fri., Aug. 2, 1963

TEMPERATURES
Max. Min.
July 26 101 69
July 27 100 69
July 28 99 69
July 29 101 67
July 30 102 64
July 31 101 78
Aug. 1 102 78

New O-in-C For NOTS Pasadena



CAPT. GRADY HOWARD LOWE (LEFT) AND CAPT. E. I. MALONE Exchange Best Wishes as Capt. Lowe Succeeds Capt. Malone as Officer in Charge at NOTS Pasadena; Capt. Malone and Capt. Lowe Toured China Lake Wednesday.

Capt. Lowe Relieves Capt. Malone

Capt. Grady Howard Lowe takes over today as Officer in Charge, NOTS Pasadena, relieving Capt. E. I. Malone who has skippered the Foothill installation since July, 1961.

Capt. Lowe was in command of the USS Renville (APA 227) prior to assuming his new duties. Capt. Malone will take command of the USS Passumic (AO 107) based at Long Beach.

Capt. Lowe, who enlisted in the Navy in 1940, was commissioned the following year. He took part in the North Africa and Normandy operations in World War II, and was executive officer of the destroyer USS McCafferty during the Korea conflict. He later became skipper of the USS Hollister.

Duty with Staff, CincPacFlt and as ComPacFlt representative at the Pacific Missile Range followed. He also was Deputy Commander, Fleet, PMR.

During the Cuban crisis he was CO of the USS Renville.

Holder of a bachelor of arts degree, the new NOTS Pasadena O-in-C is presently working toward his doctorate in nuclear physics.

Capt. and Mrs. Lowe (Daisy) and their two children, Linda Jean, 7, and Gary Howard, 3, will live in Pasadena.

Oregon Teachers Amazed by Station's Work

By BUDD GOTT

An estimated half-million students of elementary, junior high school, high school, and college students, as well as members of fraternal, service, civic, and community organizations throughout the State of Oregon will learn of the work being done at the Naval Ordnance Test Station in this aerospace age.

Forty-three teachers and school administrators will relay first hand knowledge they acquired here of the Station's research and development contributions to our national defense when they return to their classrooms and communities following a two-day "Aerospace Workshop" held here Monday and Tuesday.

The State of Washington and Idaho will hear the story of NOTS from teachers who are also participating in the workshop as will northern California which has two teachers in the workshop.

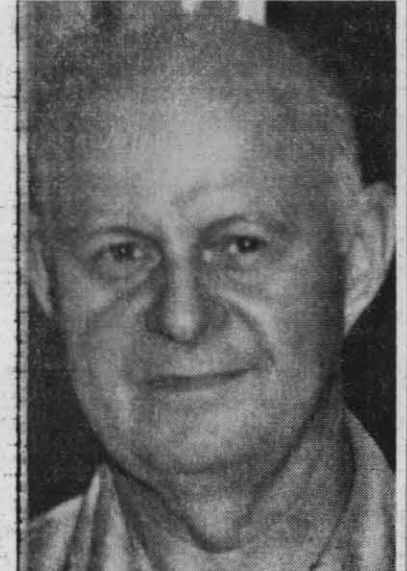
Seventh Year At NOTS
This is the seventh consecutive year that the Workshop under the auspices of the Oregon State System of Higher Education has been held at NOTS. It is also the seventh visit for workshop director Ray Haas and his sixth consecutive year as director.



OREGON VISITORS—Forty-one Oregon educators attending an "Aerospace Workshop" here this week pause long enough for a group picture with workshop director Ray Haas (second from left) and coordinator Robert A. Wilcox (extreme right). This is the seventh consecutive workshop to be conducted by the Oregon System of Higher Education at NOTS.

"Our visit to NOTS is one of the highlights of the workshop," states Haas. "Each year on our visit here we gain knowledge of the Station's works which aids teachers and administrators to take back and impart better understanding of our fast moving aerospace developments in relation to the economic, political, geographical and social standards of our age." According to Robert Wilcox, coordinator of special programs and curriculum consultant for the Oregon State System of Higher Education, who is paying his first visit to NOTS, teachers and administrators will be able to incorporate their knowledge gained here into the school curriculum to inform today's youth of the aerospace age they live in. "It has been an enlightening experience" was the comment of Zabelle Tracy, a science teacher from Crescent City, Calif. "Although we live in the northern part of the state and were vaguely aware of NOTS, we had no idea how extensive your work was here." Yvonne Carson, a teacher at Clark Junior College, Vancouver, Wash., termed her visit an eye opened... "I've gained answers here to questions that I certainly be asked when I return." (Continued on Page 8)

20-Year Man



TWO DECADES — Jesse G. Fisher, a Crater and Packer with Supply's Traffic Division, has been awarded the 20-year Federal Service pin. He began his career with the War Department in North Carolina in 1942. He has been a NOTS employee since 1946.

CHAPLAIN'S MESSAGE

Talks To Teenagers

By Father Joseph A. Costa, O.F.M., Cap.



YOU ARE NOT DIFFERENT FROM EVERYBODY ELSE. You have an individual soul and mind. No one in the world is quite like you, nor has anyone been quite like you since time began.

But you are more LIKE other people than you are unlike them. Thank God for it. Otherwise you could never make progress. When you were born, the doctor could be confident in what he was doing; he knew that your birth would be like that of other babies.

The fact that you are basically like others make a teacher's job easier. Imagine how fouled up schools would be if one learned to read at two, and another did not begin until he was twelve.

You are also like others in the characteristics of your soul. Example: We all have a conscience which tells us the difference between right and wrong.

Why is this point important? Simply because we must understand that regulations for other people apply to ourselves as well.

Everybody old enough to drive has read many times that a drinking driver takes a terrible gamble.

Divorce courts also are packed with people who think they are exceptions to the rule—the ones who can beat the odds. Here is a woman who became an older man's second, third, or even fourth wife.

How much heartbreak all these people would have avoided had they set out in life determined to follow the rules which have been found to apply to virtually all human beings!

While most of us accept the fact that we are physically like others, we like to think that we have different personalities, different qualities which somehow enable us to overcome obstacles which stand in the way of other people.

It probably hurts us to admit that, under the skin, we are not much different from other people—especially people we do not like.

But once you accept that fact, you will make tremendous strides in your personal life. You will find your future lined with guideposts to help you reach your goals.

PROMOTIONAL OPPORTUNITIES

Present Station employees are encouraged to apply for the positions listed below.

Supervisory Training Instructor, GS-1712-11, Code 654 - Responsible for the Apprentice Programs at NOTS. Must be qualified journeyman in a trade currently being apprenticed under the program.

File application for above position with Mary Watts, Bldg. 34, Room 26, Ext. 72723. Supervisory Maintenance Engineer, GS-13, Code 708 - As head of Maintenance Control Division supervises division activities related to inspection, maintenance, service-contract awards, and performs management-administrative duties.

File application for above position with Mary Morrison, Bldg. 34, Room 34, Ext. 72032. Deadline for filing applications is August 9.

COMPETITIVE EXAM Shop Planner (Carpenter), Announcement No. NOTS-1Va-10(63) issued August 5.

NAVY OVERSEAS VACANCIES Personnel Management Specialist, NM-201-9, USNS, Rodman, Canal Zone. Supervisory Placement Specialist, GS-212-9, USNS, Guantanamo Bay, Cuba.

Answers to Questions On Murray PhysEd Program Available

Answers to questions posed by participants of the meeting on the Murray School 7th and 8th grade physical education program held April 30 in the Murray School Library are being made available to the parents attending the meeting and other interested persons.

The April 30 meeting on the Physical Education Program had been planned to provide an overview of the program as it was conducted during the 1962-63 school year.

Her question: "Does anyone ever see the wild horses?" Answer: Yes—since there are horses on the Station, we do sometimes see them. You might travel all day in the boondocks and not see any—or maybe several—there is no predicting—no assurance.

Lost One Helmet; If Found Please Return to Fire Dept.

The Fire Department is asking the aid of China Lake residents to help them locate a firefighter's helmet which was lost on North Lauritsen Road while the Department was responding to a five-alarm fire at NAF.

Number 28 is stenciled on the helmet. Its return would be appreciated by the Department. If not returned, a replacement must be ordered which will result in a delay and protection for one man less among the firemen.

'DESERT PHILOSOPHER' Wild Horses And Burros

By "POP" LOFINCK



We received a letter from Evelyn R. Young of Beverly Hills, asking for information about NOTS boondocks.

It occurs to me that ROCKETEER readers might also be interested in her questions.

Her Question: "Approximately how many mustangs and burros are there on the station?" Answer: "My guess is from 30 to 50 horses and not over 200 burros, at most."

DESCENDED FROM SPANISH PONIES The true mustang is descended from bands of Spanish ponies that escaped in the early years of exploration and settlement. I doubt if there are any in this area.

The horses on the Station are descended from Bill Lander's outfit who started raising horses in the 1870's and from domestic stock abandoned by pack outfits and ranches.

Horses are quite transitory. They don't stay put, as cattle do. Horses wander off and on the Base, depending on feed conditions.

Feed has been so poor the last few seasons that the ranchers could not bring in their cattle. They had to feed hay and cotton seed in a pasture.

The ranchers pay a grazing fee of so much per head per month to the Bureau of Land Management.

So if feed conditions are bad for cattle they are also bad for horses.

BURROS AREN'T SO CHOOSY The burro situation is somewhat different. Burros can eat almost any kind of grass or weeds right down to the ground. That's their menace—if they multiply enough they can eat themselves into starvation.

Burros have another advantage over horses. They can smell water from quite a distance. Many springs have dried up, but a burro can smell water under the sand of a dry wash and dig a hole down to get enough seepage water to survive on.

Burros are much more a symbol of the winning of the west than the so-called mustang.

Asses, which is their right name, are not so far removed from their natural habitat—the wilds of Africa, so they have retained their primitive instincts for survival.

It's a \$1000 fine to shoot a burro in California. Some years ago, Burroughs' High School wanted a burro for a mascot.

KINDNESS TAMES HIM I happened to get a rope around one's neck—about 1/3 grown. It kicked and fought terrifically. With the aid of my passengers we got him tied up and hauled him down to the corral.

After a few days of being well fed and petted, anyone could walk up and scratch his belly. He liked it. That's how easy they are to tame. He made a good mascot.

But to catch a young wild burro today, legally, you must get a permit from the California State Agriculture Department—and an inspector is supposed to come around periodically to make sure it is being well fed and properly taken care of.

Many laws get put on the books by well meaning people, who do not know the facts of the situation.

Her question: "Do the Station personnel show any special kindness to the horses and burros?" Answer: We seldom get close enough to them to show any special kindness. They are cagey.

There are many people on the Base who have a sentimental interest in all wild life.

ASKS ABOUT OLD GRAVES Her question: "Do men on the post refurbish the markers on the graves of the old miners buried there?" Answer: When the road up Mountain Springs Canyon was being improved a dozer accidentally damaged some graves which were no longer clearly marked.

A Mr. Cole, a miner, who lived at Cole Springs and died in 1906 has his own private cemetery near there—with a fence around it—about 10 feet square.

These are the only known graves on the Station. More may be discovered as time marches on.

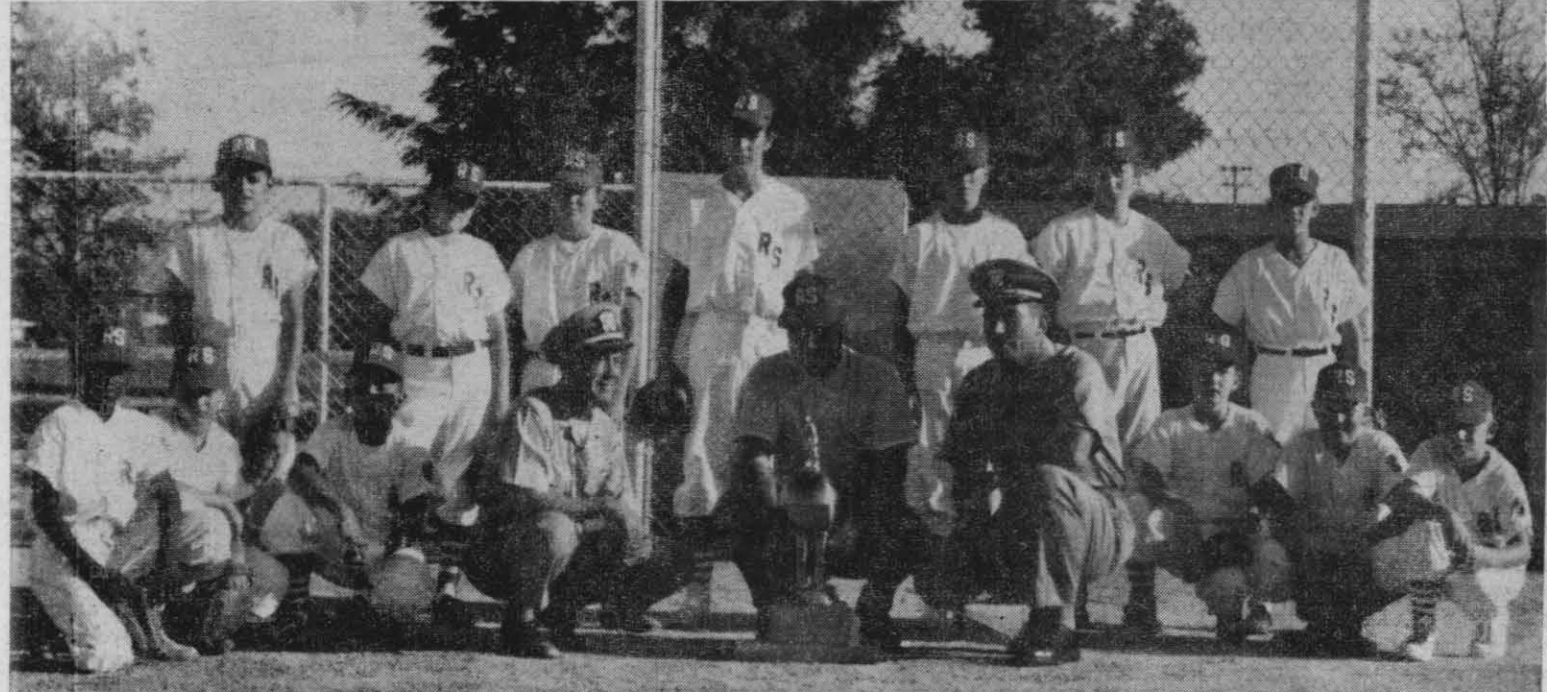
You can hear many exaggerated tales—as indicated in my column on the legendary Fort Nadeau.

To give a true picture and authentic information on wild horses — more in a subsequent column.

GEBA Assessment No. 73 Is Now Due

Members of the Government Employees Benefit Association are reminded that assessment No. 73 in the amount of \$1.10 is now due following the death of Lester W. Hammond, Supply Department employee.

RED SOX CHAMPS OF MAJOR LEAGUE



RED SOX—1963 LITTLE LEAGUE CHAMPIONS OF THE MAJORS—receive trophy from Capt. Jack W. Hough and Cdr. D. W. Knight, representing NAF which sponsored the team.

Beat Dodgers Two in Row In Playoff

The Red Sox are the 1963 champions of the China Lake Little League Major League!

They clinched the title last Tuesday evening by whipping the Dodgers, 7-0. They had beat the Dodgers, 14-4, the previous evening.

The Sox had won the first half of the Little League season and the Dodgers had won the second half.

Winning pitcher in Monday's game was Don Branson. Mike Oliver hurled for the Red Sox in the clincher Tuesday. Sandy Reid pitched for the Dodgers in the first game and Bruce Livingston and Sammy Gee were on the mound in the second game.

Colt All-Stars Playing In Sectional Tourney IWV Pony All-Stars Lose to Barstow

The Colt League All-Stars drew Colton in the opening round of the Colt League Sectional Tournament at Perris Hill Park, San Bernardino.

Coach Andy Gilpin and Manager "Slim" Claxton took a 15-man squad for the 6:15 p.m. opener against Colton. Gilpin named Tom Mather as the starting pitcher with Jim Roseth working behind the plate.

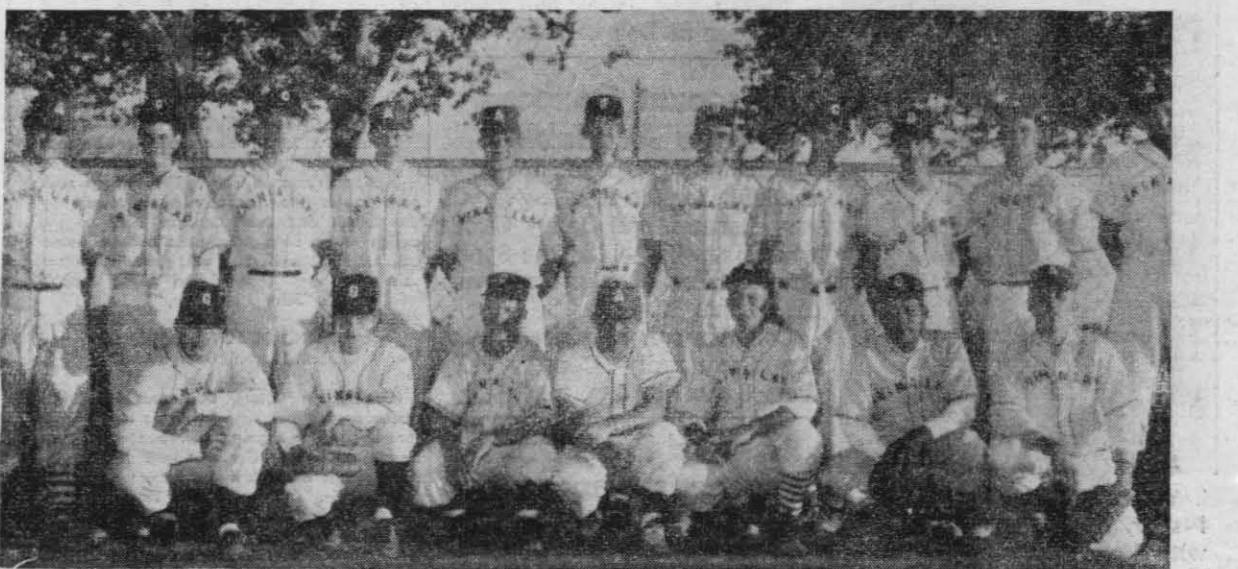
Softball Schedule August 3 Kernville vs Public Works 8 p.m. August 5 Merchants vs NOTS 6:30 p.m. Public Works vs Staff 8:30 p.m. August 6 Merchants vs NOTS 8:30 p.m. August 10 Merchants vs Bishop 8:00 p.m.

IWV Pony League Playoffs Start Tonight Playoffs to determine the champions of the second half of the IWV Pony League season will get underway tonight at 8 p.m. when the Yanks meet the Cardinals.

The Indians, who won the first half of the season, will play the winner of tonight's game on Sunday evening, starting at 8 p.m.

If the Indians lose Sunday night another game will be played on Tuesday, Aug. 6, at 8 p.m.

Three of IWV players were named to the All Tournament team. Selected as outfielders were John Martin and Jim Baumann while Dave Bittel was named catcher. The IWV All-Stars earned the right to meet the Barstow All-Stars when they beat the Victorville All-Stars, 6-4, July 19.



COLT LEAGUE ALL-STARS—These China Lake All-Stars were selected to play in the Colt League Sectional Tournament at San Bernardino. Front row (l-r) are Al Hyles, Jess Hardin, Warren Turnbaugh, trainer Dick Rivers, Jim Ayers, Herbie Pinto and Bobby

Sorge. Back row (l-r) are coach Andy Gilpin, Larry Aguilar, Jim Roseth, Eddie Cree, Phil Pifer, Doyle Claxton, Art Smith, Joey Hibbs, Don Crowley, Tom Mather, and coach "Slim" Claxton. Six Giants, four Dodgers, three Angels, and two Colts were selected on squad.

RIM SHOTS By BILL VALENTEEN



Bowling, America's most popular indoor sport, in my estimation, provides good exercise in a healthful atmosphere, good competition and good fun with good friends.

Time was when the folks wouldn't let you get within a mile of a bowling alley because of its reputation as being a place where fellows of ill-repute hung around shooting pool and betting on horses.

Up until the World War II years, the closest to a bowling alley you would find a woman, was if she happened to be living in one of the apartments in the same building.

WOMEN GET INTO THE ACT The women finally got into the act, however, as they always do, and because of this, the atmosphere of the sport changed suddenly from a den of iniquity to what we see today as a glorified family room complete with cribs, playpens and rocking horses.

Actually, bowling is one of the world's most ancient activities as far as recreation is concerned. As far back as 5,000 B.C., the children of Egypt were known to play a game that was very similar. The American game, however, comes more directly from Germany, where it started to develop around the start of the Christian era.

MARTIN LUTHER WAS A KEGLER Kegeling began by throwing or rolling stones at a SINGLE kegel. Soon, through a process of a combination of things, kegels were put together in a bunch, and wild competition was staged, sometimes involving fortunes, to see who could tumble the most kegels in a single turn.

THE DUTCH GREAT BOWLERS The Dutch were great bowlers and when they came to this country as settlers in New York, they brought the game with them and set up America's first bowling lanes in 1623.

RUMORS OF BOWLING CENTER I don't know how true it is, but I've heard rumors that we're going to be able to take advantage of one of these modern bowling centers in the very near future.

The Rocketeer

Official Weekly Publication of the U. S. Naval Ordnance Test Station, China Lake, California. Captain Charles Blinnam, Jr., USN Station Commander. "I" "T" Bibby Public Information Officer. Jack G. Broward Editorial Advisor. Richard Grossenberg Editor. Budd Gott Associate Editor. Chuck Mangold Special Services Athletic Director. The Rocketeer receives Armed Forces Press Service material. All are official U. S. Navy photos unless otherwise identified.

DIVINE SERVICES

Christian Science (Chapel Annex) Morning Service—11 a.m. Sunday School—11 a.m. Protestants (All Faith Chapel) Morning Worship—8:30 and 11 a.m. Sunday School—9:30 a.m. Groves and Richmond elementary schools. Roman Catholic (All Faith Chapel) Holy Mass—7, 9:30 a.m. and 12:30, 5:30 p.m. Sunday, 6 a.m. Monday through Friday, 8:30 a.m. Saturday. Confessions—8 to 8:25 a.m., 7 to 8:30 p.m. Saturday, Thursday before First Friday—4 to 5:30 p.m. NOTS Hebrew Services (East Wing All Faith Chapel) Every first and third Friday, 8:15 p.m. Sabbath School every Saturday morning.

NOTS Pasadena News

Virginia E. Lane — Ext. 481

Smooth Sailing



TYPICAL SUNDAY AFTERNOON — Harry and his family keep the weekends full with cruising, racing and other water activities.

RHPS Elects NOTS Man

Harry Humason, Head of the Mechanical Engineering Section in the Underwater Ordnance Department, was recently elected Commander of the Rio Hondo Power Squadron (RHPS), a unit of the 49 year old, 54,000 member United States Power Squadrons. The Rio Hondo unit, a 200 member group, is one of 21 squadrons in the Southern California area.

"The objects of the U. S. Power Squadrons shall be to establish a high standard of skill in the handling and navigation of yachts; to encourage the study of the science of navigation, piloting, seamanship and small boat handling; to cooperate with the agencies of the United States Government charged with the enforcement of the laws and regulations relating to navigation; and to stimulate interest in activities which will tend to the upbuilding of our Army, Navy, Coast Guard and Merchant Marine."

Educational Organization
A non-profit educational organization, RHPS presents six classes in piloting and small boat handling. These are open to the general public and are co-sponsored with the adult education programs in the high schools. For those who become members, courses are given in seamanship, advanced piloting, junior navigator, navigator, weather, sail, marine electronics, engine maintenance, and instruction techniques. When a member learns a subject, then he may be called upon to teach others.

Harry says that all the book learning is put to practice when the squadron goes on cruises. Not only that, but all have a wonderful time with the many waterborne activities. For those members who do not have boats, there is usually a berth for a crewman available. Of course, there are meetings which are interspersed with fun, entertainment and business.

Charter Member
After joining the Los Angeles Power Squadron in 1958, Harry became one of the RHPS Charter Members in 1959. He has since held several positions in the squadron prior to becoming its commander. During this time he has also taken all the squadron courses except Marine Electronics, Engine Maintenance, and Instruction Techniques.

nance, and Instruction Techniques.

Right at his side has been his wife, Jean, who, with him, became the first in the local squadron to pass the Navigator Course. Women may not belong to USPS, but they may take the courses and are given certificates for their accomplishments. Jean was president of the Women's Auxiliary sponsored by RHPS.

Purchased "Michaela" in '61
"Michaela," the Humason's 23 foot sloop rigged sailboat was purchased in 1961. Prior to that, Harry gained sea experience as a crew member on a 40 foot cutter. Family cruising and racing keep all the weekends full.

Robbie and Steve, the Humason's boys, are often part of the crew. They went on their first race a few weeks ago and really enjoyed it. When they don't go, they usually stay with Harry's mother, Bea Humason. Bea is a Physicist in the Analysis Branch in UOD.

Occasionally crewing for Harry have been Wyn Starling and Harold Vickroy of NOTS. A few other NOTS people have also gone out once or twice. Harry said he really gave some of them a workout when they helped on a bottom painting job.



NADINE ROBINSON
Leaving NOTS after 10 years.

'Polaris Sub Sandwich!'

Sign of the times: a Polaris submarine sandwich for Navy's Pearl Harbor Shipyard workers. A retired Navy chief steward, who served 21 years on submarines, has created the new doubled-layered treat featured in the base snack-bar. It is made up of French bread, a layer of ham, banana and mustard, and a second layer of turkey, shredded coconut, sweet relish, mayonnaise, lettuce, and finally topped with a cherry and pickle — BURP! — all for 35 cents. For an extra nickel, it is crowned with a slice of Hawaiian pineapple and sprinkled with nuts.

Nadine Leaves NOTS Aug. 9

Leaving NOTS Pasadena next Friday is Nadine Robinson, Secretary for the Manufacturing and Production Engineering and Materials and Mechanical Engineering Branches in UOD, as well as an active participant in many employee organizations. Nadine and her husband, Jack, are transferring to the Sacramento area.

After ten years with NOTS, Nadine goes to McClellan Air Force Base.

At NOTS Pasadena, she has for many years worked with the Credit Union having served as Secretary and on the Board.

She is presently an alternate on the Statutory Review Board and a member of the Forget-Me-NOTS Committee.

Both she and her husband are active members of the National Federation of Federal Employees for which Nadine has served as Secretary for many years. She has also annually participated as a member of the NOTS Christmas Choir.

She met her husband, Jack, in Brazil, was married in Honolulu, and their son Huber, now 15, was born in Guam.

They have two other children — Brenda, 22, at home, and a married son Larry living in Seattle. The Robinsons have one grandson.

They have made their home in Arcadia during the past ten years.

Patent Award



KEN SMITH (right), Head of Torpedo Design Branch of UOD's Torpedo Development Division, receives a Certificate of Patent and monetary award for patent on "Method and apparatus for steering underwater bodies." Smith first came aboard in 1956 as Public Works Officer. In 1958 he left the military service and joined NOTS in the position he now holds. The presentation is made by C. G. Beatty, Head, Torpedo Development Division.

—Photo by Rick Teunis (SA)

Two Decades



ANNIVERSARY OF 20 years federal service is celebrated this week by Averil M. Hanna (left), Head Modelmaker (machining) in the Range Branch of UOD's Systems Operations Division. Hanna, whose duty station is Morris Dam, has been with NOTS for 11 years. Other government service has been with the Long Beach Naval Shipyard and military service with the Air Force during 1941-1945 and again during 1950-52. Presenting the 20-year pin is R. H. Heller, Associate Head, Systems Operations Division.

Police Arrest NOTS

By C. H. McINTYRE
The Pasadena Police arrested NOTS Ball Club with a seventh inning stall. The police led 4-1 until the fifth inning and then they played for time as NOTS brought the score to 4-3. The game time expired as NOTS came to bat in the bottom of the seventh.

NOTS lost the game, but it was not from lack of playing ability. Dick Talbot made several difficult catches in center field. With an average fielder, these would have been easy hits. Bill Yarbrough came up with a beautiful running catch in left field. The excellent fielding and hitting of Ray Brooks have been a constant highlight of the season. Ray and Don Palmer have been the strongest part of the ball club. Both of these men are outstanding players.

Very little has been said this year about the manager. But H. C. Vickroy has done an outstanding job.

At the season's end, his record stands as — one new ulcer, one reactivated ulcer, five large fights with umpires, many gray hairs, a large number of sleepless nights, a chipped ankle, much practice in first aid and last — a great deal of respect, admiration, and thanks from his ball club.

The people who have participated in the NOTS softball program have much to be proud of. For a first-year team to make the "A" League is unusual. We had a fine ball club this year and we are looking forward to next season.

A complete listing of players and statistics will be issued following the SCI and Long Beach games.

Engineering jobs in the Federal Government increased almost 8 per cent between October 1959 and October 1960, to move into second place among major full-time white-collar occupational groups, for a total of 101,000.

Revised Career Planning Manual Available to All

The revised and updated NOTS China Lake Career Planning Manual for Fall 1963 to Summer 1965 is being distributed next week.

The Manual collects in one place practically all of the training opportunities open to NOTS employees for the next two years.

Initially, copies will be sent to all China Lake Departments, Divisions, and Branches. Additional copies for individual employees can be obtained from Department Offices or from Department Management Advisors.

Captain Blenman, Station Commander, and Dr. McLean, Technical Director, state in their foreword to the Manual that:

"As Station Management, we are interested in each individual's development, because we recognize that each member of NOTS has an important part to play in the success of our mission. We hope that each person working at NOTS is equally interested in his own development, and that this Career Planning Manual will be a useful tool in matching opportunities for growth with individual development needs."

Department Personnel Management Advisors are available to discuss with supervisors and employees the contents of the Manual and the best way in which its contents can be put together to meet specific needs.

The Manual includes information about Career Planning at NOTS as well as information about 12 employee development programs including:

Rotational Work Assignments, Leadership Development, Professional Development, Off-Station Advanced Study, Supervisor and Executive Development, Journeyman and Technician Development, Clerical Development, Junior Professional Program, Management Intern Program, Public Administration Program, and the Apprentice Program.

In addition, schedules showing the courses being offered over the next two years are included for the Sciences and Engineering, the Supervisor and Executive, the Journeyman and Technician, and the Clerical Development Day Class programs; as well as similar scheduling information for the evening programs offered by UCLA, USC, Bakersfield, Burroughs and several correspondence schools.



Employee development opportunities noted in the new Career Planning Manual being distributed next week are discussed by Department Personnel Management Advisors and Ray Harrison, Acting Head of the Personnel Department. From left to right are: Gale Poppen (Personnel Management Advisor for Code 35), Walt Pingree (PMA for Codes 50 and 75), Joe

Doucette (PMA for Codes 00, 17, and 65), Ray Harrison, Acting Head of the Personnel Department, Ed Zwierski (PMA for Code 55), Karl Masters (PMA for Code 30), and Claire Wilde (PMA for Codes 20-29 and 84-88). Not shown are: Terry Haycock (PMA for Codes 40 and 12), Bill Funkhouser (PMA for Code 45), and Bryce DeFriez (PMA for Code 70).

Capt. Ronald Jensen Relieves Clark As AF Liaison Officer

Capt. Ronald E. Jensen relieved Lt. Col. Lester E. Clark as the Air Force's Systems Command Scientific and Technical Liaison Officer at NOTS on Monday.

Capt. Jensen reports to the Station from Elgin Air Force Base where he served as project engineer for the Target and Armament Development Laboratory.

Col. Clark, who has been assigned here for the past three and one-half years, will report to Griffiss AFB, Rome, N. Y., as Chief of the Advanced Development Branch.

The Clarks left Wednesday to drive cross country to their new assignment. While enroute they will visit several college campuses so their daughter, Candy, can decide where she wants to enroll.

A '63 graduate of Burroughs, Candy set an enviable record here by completing her high school work in three years.

Capt. Jensen, the new liaison officer, is a command pilot, and has logged over 2200 hrs. of flight time in jets and prop craft. During the Korean Conflict he flew F-84's and on his return to this country he served as jet gunnery instructor at Laughlin AFB, Texas.

He and his wife, Marilyn, have



PAPER WORK NEVER ENDS—Lt. Col. Les Clark watches as his relief, Capt. Ron Jensen, starts on the never-ending task of paper work in the Air Force Liaison Office here.

four children, Mike, 9; Christie, 8; Scott, 7; and Kathy, 4. They have been assigned quarters at 61-A Burroughs.

78 Students At NOTS On Science Cruise

Seventy-eight students from high schools across the nation, selected by the National Science Fairs for their scholastic achievements, toured NOTS yesterday as part of the 1963 Navy Science Cruiser West Coast Program.

Highlights of the China Lake visit included a tour of the ranges, Michelson Laboratory and seminars with scientists in various fields of research.

The young "Science Cruisers" began their week-long tour of west coast naval facilities last Monday when they arrived at Long Beach. There they boarded the USS Yorktown for a day-long cruise.

Throughout the remainder of the week they were scheduled to visit the Naval Station and Hospital at San Diego, San Diego State College, Balboa Naval Hospital, NAS North Island, General Dynamics / Astronautics, Navy Electronics Laboratory, Aviation Physiological Research Laboratory at North Island, and the Naval Amphibious Base, Coronado.

Tomorrow they'll see the San Diego Padres play Dallas-Fort Worth.

Graduate Study Awardee

(This is the fourth in a series of biographical sketches of seven Station employees who have been selected by BuWeps for one year of graduate training.)

Geary Younce of NOTS Pasadena's Underwater Ordnance is probably one of the youngest NOTS employees to be selected under the BuWeps Graduate Study Program and possibly the youngest from all BuWeps installations.

The 22-year-old UOD employee will enter the California Institute of Technology this fall to study for a Master's degree in electronic engineering.

Originally from Vancouver, Wash., Younce also lived in Hillsboro, Ore., where he obtained his elementary education.

He entered CalTech in the fall of '58 on a National Merit Scholarship and received his B. S. degree in June of '62, then accepted a position with NOTS Pasadena.

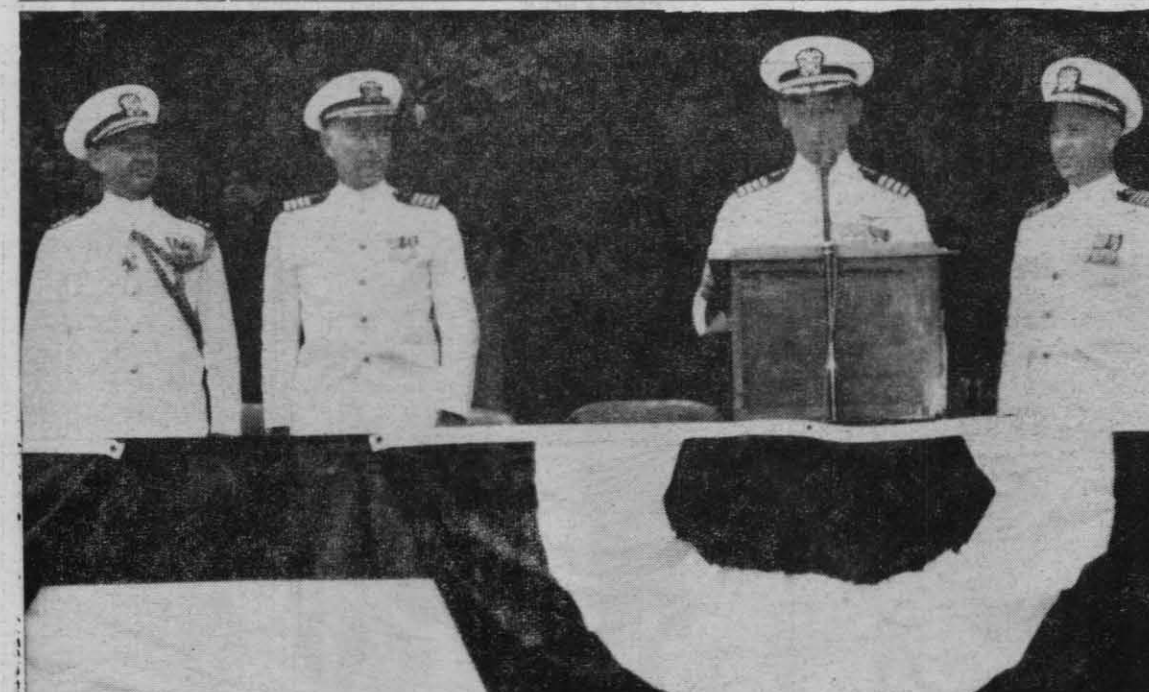
While at CalTech he was on the football and track teams and a staff member of the school paper.



GEARY R. YOUNCE

He is currently employed as an electronic engineer engaged in analog and digital design with the Electronics Branch, Systems Operations Division of UOD.

Younce has assisted in three recruiting trips for science and engineering employees since joining NOTS.



CAPT. CARL O. HOLMQUIST, USN, former NOTS Technical Officer, reads orders assigning him as new Commanding Officer and Director of the Naval Training Device Center, Port Washington, N. Y., during change-of-command and retirement ceremonies. Left

to right are Capt. A. L. Becker, USN, Chief of Staff, Third Naval District; Capt. Edmund Hoffman, USN, Deputy and Assistant Chief of Naval Research; Capt. Holmquist, and Capt. Elton L. Knapp, USN. Holmquist was at NOTS Sept., 1961 to June, 1963.

Grade School Registration Starts Monday

(Continued from Page 1)

necessity. If medical necessity is the basis for the request, a doctor's signed statement is required. If polio immunization has not been initiated by the time of registration, a two week period is allowed in which to begin the immunization series and a one-year period to complete the series. Other health information required by the district includes a health history of the child with the dates of immunization and vaccinations. Complete physical examinations, both medical and dental, are encouraged before school entrance. Physical examination forms will be available at time of registration.

Kindergarten Placement
Kindergarten placement of children in morning and afternoon sessions will be determined by the age of the child. Class load at the kindergarten level will be limited to not more than 34 children per class. If registrations exceed the available kindergarten facilities, placement will be made in order of registration and a waiting list will be established.

Kindergarten Zoning
The zoning of kindergarten children for school assignment will not be possible until registration is completed. Before school begins on Sept. 3, parents will be notified either by phone or postal card specifying the class and school placement and the time the parent is to bring the child to the school during the first day session.

Registration By Proxy
Parents who plan to be away from the Station during the registration period may delegate a responsible adult to register their children. In these cases, the person delegated should possess all the required information previously listed plus the legal name of the child, home address, home phone number, birth date of the child, occupation of the father and mother, business phone number, and a list of all children of the family including their birthdates and sex.

Opening Of School Date
The opening date for school in the China Lake Elementary District will be Tuesday, Sept. 3.

The Value of Human Element

'Little Black Box of Science' Won't Replace Man, Project Pilots Prove

By JACK BROWARD

The "black box of science," rated by many as the miracle of the Twentieth Century, takes a back seat to the human element here at the U. S. Naval Ordnance Test Station.

What's more, it is doubtful that man — his priceless control of individual thought and flexibility of actions — will ever be replaced, according to Commander John A. "Jack" Sichel. The Navy three-striper's faith in his fellow man is reflected daily in the work he and his six-man staff of project pilots carry out at this sprawling weapons research and development station.

"We represent the airborne eyes, ears and senses of reaction to the scientists and engineers on the ground," explains the 1946 Annapolis graduate, now ending his third tour of R & D duty.

Project pilots, like test pilots, must not only put new weapons and delivery systems through aerial paces, but evaluate results as a potential operational device in the hands of fleet pilots.

Useful Application
"This sometimes demands a bit of gazing at our crystal ball," chuckled the short, wiry aviator. "Seriously, our pilots must keep in the forefront of all considerations, the useful application of all projects being tested once they reach operational availability."

"This is perhaps the most important area of consideration at

tached to our work," he emphasized.

Once a project has been "checked out" by Sichel's unit, the job then is to convey to the engineers and scientists, what's needed to make the project more effective or versatile.

One Out of Ten

"The work demands a special type of individual," Sichel points out, noting that "one out of every 10 aviators has the makings of a successful project pilot."

He feels that those associated closely with project pilot work should be men "who possess an unusual degree of intellectual curiosity, a better-than-average background of fleet operational duties and a keen dedication to scientific endeavor."

Such men are those who now serve as project pilots for the China Lake Naval Air Facility, Sichel feels.

"Each of our pilots has special qualifications in the general field of aviation. They were selected to serve in these billets only after exhaustive studies had been conducted in areas related to previous performances, flying ability and displayed motivation for the work."

Averaging 30-years of age, the



MAN-TO-MAN TALK about planes is shared by Cdr. "Jack" Sichel, NAF's Project Officer, and his son, John A. Jr., 11.

pilots are LCdr. J. Mark Morgan, LCdr. Carl W. Rochester, Lt. Earl P. McBride, Lt. James L. Kistler, Lt. James W. Burns and Lt. A. L. "Tony" Tambini.

All are married, possess better-than-average fleet operational experience and chorus the merits of project pilot duty.

"More Challenge"

"It's a world aside from the general aviation duties," claims Lt. Tambini, now on his third year as a scientific pilot. "More challenge, more demand for individual initiative, and decidedly more fulfillment."

As Attack Systems project officer, Tambini puts in highly irregular hours, interrupting constantly the precious home life he's able to spend with his wife and infant son.

"I feel I'm contributing something significant. A tangible quantity of something personal," he adds, elaborating on his philosophy about his work.

Lt. McBride, presently assigned to Projects Department as Fighter Weapons officer, arrived here from Monterey's Post-Graduate School last June.

Feels Lucky

Grunting his comments while

zipping up his pressure suit before a recent flight, the former VF-74 and FAWTULANT pilot smiled between grimaces, commenting, "I feel that I'm one of those 10 pilots lucky enough to get this duty!"

Talking with each of the pilots assigned to Cdr. Sichel's group, collectively and individually, there is an expression of unanimous feeling toward their roles in science here.

Where's the reward for extra effort, greater demand, and broader risks?

"Self-satisfaction. Knowing you've contributed to something worthwhile," noted quiet-spoken, LCdr. "Mark" Morgan, newly promoted to that rank.

Project pilots presently conduct flight tests on more than 50 projects related to air-to-air, air-to-ground, anti-submarine weapons and a cluster of delivery systems.

Current Programs

Several of the current programs, some scheduled for fleet development in the near future, include HIPEG, the 20-mm gun system that fires 12,000 rounds per minute, SHRIKE, the new-

(Continued on Page 5)



SKY LOOKOUT trio watching project tests from stand atop Hangar 3 at NAF includes, (from left) Lt. "Tony" Tambini, Attack Systems project officer; Capt. Jack Hough, NAF Skipper, and Lt. James W. Burns, ASW project officer.



STRIDING toward Hangar 3 office after completing an air test are LCdr. J. Mark Morgan, Lt. James W. Burns and Lt. James Kistler.

The A4 Skyhawks in background are in constant use by project pilots to bear out theories of scientists on the ground.

Project Pilots Check Out Ideas For Scientists

(Continued from Page 4)
est air-to-surface missile, and a series of "Eye" weapons intended for limited warfare use.

"There's enough work here to keep us occupied day and night," adds another project pilot, Lt. Burns, ASW officer, explaining that his project pilot team works side-by-side with civilian scientists and engineers at NOTS in a spirit of "real unity."

"The guys on the ground share all our emotions and then some," he added, noting that this aspect of the duty is especially meaningful.

Kinship With Scientists

Fighter Systems project officer, Lt. Jim Kistler, described the scientist-pilot relationship this way.

"There's a kinship between us that welds us together. Their problems are ours, too. Our job, as project pilots, is to recognize and evaluate problems with a view toward actual combat conditions.

"A weapon or system might prove quite adequate and successful out here in the Mojave Desert. But, what about the guy handling it from a carrier, thousands of miles from land, under combat and sometimes confused circumstances?"

"These are the areas a project pilot must consider as he tests a program," says Kistler.

Some 20 other pilots attached to the Naval Air Facility earn temporary assignments periodically as project pilots working with Cdr. Sichel's unit.

"It is from these assignments and the resulting performances that we are able to base our selections for replacements when our men are transferred," he commented.

Value of Rotation

Due for transfer himself in August to the USS Constitution, Cdr. Sichel explained that the long range value of the Navy project pilot is the rotation they perform — from project to fleet duties — then back again.

"We're given the chance to familiarize ourselves with fleet conditions, weapons, systems, absorbing demands that fleet duties make on a pilot and store this information up for eventual application during our next tour of project duty," he adds, in a tone of enthusiasm that never wavers.

It is on this level of conversation that Cdr. Sichel is at his best.

You believe him when he says, "Man will never be replaced by a black box. But, he may be carrying one in his cockpit!"

IBM Course To Be Conducted Here

A course will be conducted on IBM 1620 Fortran, a stored program computer designed for research and engineering work. Theron DeJarnett will be the instructor for the course which will meet at the Community Center on August 12, 14 & 16 from 7:30 to 11:30 a.m.

This course will train personnel to program and run their own data on the 1620 Computer. Employees will enroll on NOTS Course Enrollment form and/or Tuition Refund Certification 11ND-NOTS 12410-28 and turn in forms for enrollment to Code 6503, Rm. 1004 Mich Lab Education Office.

The U. S. Marine Band has played at every presidential inauguration since Jefferson's time.

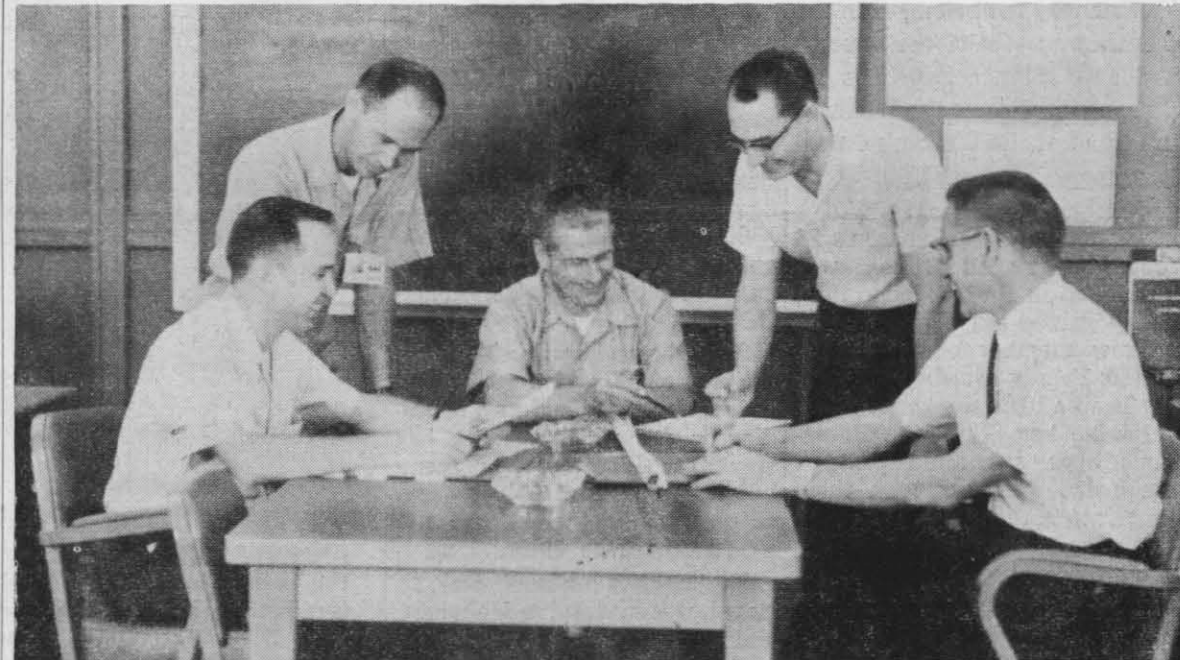
One Out of 10 Has the Makings



SUITING UP for test hop in high-pressure rig is Lt. Earl P. McBride, Fighter Weapons Officer. Helping him are NAF Flight Surgeon Lt. John W. Anderson (MC) and Dallas Burton, PR3.



PROJECT PILOT Lt. Earl McBride will return from his test hop in F8 Crusader with information vital to success of the project.

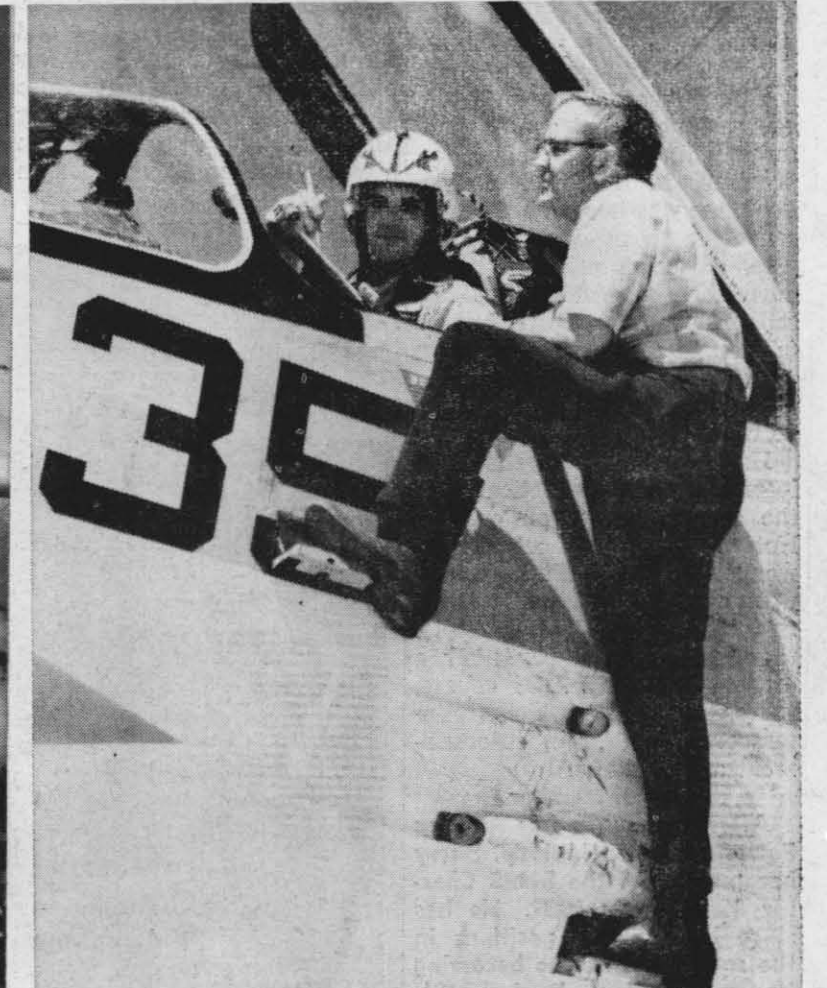


(Photos by Lee Mascarello, PH2)

PROJECT PLANNING starts at table top levels, with scientists, engineers and pilots teamed as one unit. William B. Porter, SHRIKE program's analysis branch head; LCdr. J. Mark Morgan, Ass't Projects Officer; Cdr. John A. "Jack" Sichel; C. P. Smith, Sidewinder program scientist, and David N. Livingston, Walleye program scientist in AOD, set up mutual programs for project pilots to follow.



PROJECT TESTING is left up to teams represented by Lt. "Tony" Tambini and H. W. Simpson, electronic technician associated with SHRIKE program. Tambini will relay his information, gathered during flight, to engineers.



CIVILIAN-MILITARY TEAM of Wayne Anderson, AOD engineer, and Lt. James L. Kistler, Fighter Systems officer, holds brief, plane-side conference on project about to be tested by Kistler.