#### COM CALENDAR

Things are getting back in treat the family to these Club full swing all over China Lake, and one of the swingingest ed from 11 a.m. to 2 p.m., and places will be your Club. We the dinner hour will run from have already instituted Wed- 5 to 7 p.m. nesday nights as "steak night" when top sirloin will be prepared to your liking.

Tuesday evenings are still set aside for family specials. This Tuesday, tacos and enchiladas will be the specialty.

Because of the many requests on Oct. 2, the Club will start a one month trial period for Sunday brunch and Sunday

So, do make it a point to

features. Brunch will be serv-

Set your imagination to work and plan to join all the other goblins and ghosties on Friday evening, Oct. 29. A prize may be yours!

Join us next Saturday, the 2nd, after the golf tournament and complete your day of fun. The Hy-Tones will be on hand for your dancing and listening pleasure.

STATION LIBRARY

**LISTS NEW BOOKS** 

Fiction

Duerrenmatt-Once a Greek.

Non-Fiction

Baker-No Cause For Panic.

Beerbower-Search For the

Finer-Passport to Greece.

Hatch-The Mountbattens.

Schofield—Eastward the

**Red Cross Branch** 

Annual Meet Wed.

National Geographic Society-

Wondrous World of Fishes.

The Indian Wells Valley

Branch of the American Red

Cross will hold its semi-annual

meeting on Wednesday, Sept.

29, at 8 in the East Wing of

CROSSWORD PUZZLE

church 9-Note of scale 10-Heelless

14-Rosters 17-Quarrel 20-Merry 23-A state

the All Faith Chapel. The pub-

lic is cordially invited.

ACROSS

1-Macaw 4-A continent

(abbr.) 6-Wheel teeth

ornaments
18-Symbol for
nickel
19-For example

(abbr.)
- Mature

26-Evaluate 28-Household

33-Legal seal (abbr.) 34-Expired 36-Face of

40-Sow 42-Place for

combat 45-Electrified

particle 47-Barracuda

9-Platform 0-Girl's name

52-Unusual 54-Note of scale 55-Spanish

officer 59-Prefix: with

61-Challenges 63-Mortified 65-Remains at

ease 66-Conjunction 67-Peer Gynt's

article 56-Chief

clock 38-Tuberculosis

22. Finishes

13-Amend 15-Displaced

Conquest-Russia After

Anderson-The Star Fox.

Healey-Waiting For a

Wyckoff-Tars

Khrushchev.

Convoys.

"CINDERELLA (74 Min.)

Disney Special

6:00 and 8:15 p.m. the classic tale of Little Cinderella as only Walt Disney could tell it. This is for kids from six to sixty. ALSO: DISNEY-LAND AFTER DARK: its flashing lights, thrilling rides and bands with a beat for young and old. (Adults, Youth and Chil-

SHORT: "Disneyland After Dark"

-MATINEE-"GHOST OF ZORRO" (69 Min.)

1 p.m. SHORT: "Goldilocks and the Th Bears" (7 Min.) Men No. 3 and No. 4" (26 Min

> -EVENING-"FLUFFY" (92 Min.) Tony Randall, Shirley Jones

7:30 p.m. ny adventure starts all over again. A cute non-sensical laughfest. (Adults, youth and

SHORT: "Sioux Me" (7 Min.) "Sea Sports Tahiti" (9 Min.)

"MIRAGE" (108 Min.) Gregory Peck, Diane Bake 7:30 p.m.

kill him. But why? You won't find out unintriquing who-dun-it. (Adults and mature

SHORT: "Davey Crickett" (7 Min.) TUESDAY-WEDNESDAY SEPT. 28-29 "CLARENCE, THE CROSSEYED LION" (96 Min.) Marshall Thompson, Betsy Drake

7:30 p.m. (Comedy-Adventure in color) Head of

an African animal study preserve meets a pretty lady anthropologist and he, and his pet crosseyed lion, help her fight the ravages of poachers. Chimps and pythons in the thrill-filled rain forest. (Adults, youth and children)

SHORT: "Barney's Hungry Cousin" (7 Min.) THURSDAY-FRIDAY SEPT. 30-OCT.

"MONKEY'S UNCLE" (95 Min.) Tommy Kirk, Annette, Leon Ames 7:30 p.m. Thursday

6 and 8:15 p.m. Friday DOWN (Comedy in color) Screwball college ge 1-Conjunction 2-Iterate 3-Symbol for nius, Merlin Jones, tries to sleep-teach a chimpanzee and then attempts to consilver 4-Heavenly struct a man-powered flying contraption 5-Norse gods to settle a pro or anti-football issue at 6-Welcomed 7-Lamprey school. Wacky DISNEY Fun! (Adults,

Youth and Children) SHORT: "Freeway Phobia" (15 Min.)

### Play Acey - Ducey Club Tonight



THE VULCANES PLAY a return engagement at the Acey-Deucey Club tonight and tomorrow night after a six-month stand at the "Black Cat-Go-Go" in Sacramento. The Club will start jumping at 9 p.m. and continue until 1 a.m., according to Club manager "Mick" Lambie. The Vulcanes have recorded such smash hits as "Poison Ivy" and "My Heart Won't Believe." The group provided all the music for Bob Hope's picture "I'll Take Sweden." They are noted for their well-blended vocals and novelties.

#### Nurses To Show "Schlerosis" Movie At Monday Meet

The IWV Nurses Club will present the most recent film on Multiple Sclerosis at the Monday, Sept. 27 meeting in the Community Center at 7:30 p.m. Club activities for fall will be discussed. All graduate nurses are urged to attend.

48-Lock of hair 62-Symbol for

For Use In Authorized Service Newspapers Only.

53-Reverbera- 64-Parent

51-Sacred bull



DISPLAY WINNING PHOTOS—Prize winners in the Desert Empire Fair Photographic Contest (I-r) Jesse Cadena, AK2, and Seth Rossman, PH3, display their entries. Cadena holds sunset scene which won him the sweepstakes prize. He used a Yaschica 635 at f.4 at 1/30 sec. on Plus X Pan film. Rocketeer photographer Rossman won 1st and 2nd places in portrait class and 3rd in landscape. He used a Rolleiflex.

From	PLACE STAMP HERE
то	
TO THE REAL PROPERTY.	

### **Photo Prize Winners**



### 'BOMROC' Team Successful



Vol. XX, No. 38 Naval Ordnance Test Station, China Lake, California Fri., Sept. 24, 1965 the last two years, exemplifies

BOMROC is the simple name for an assault-support bombardment rocket designed to give twice the reach of previous NOTS-developed five-inch spin - stabilized rockets. The Station's Mark 7 rocket, now in the fleet and being installed in new and recommissioned support vessels, last soared "for

In order to give BOMROC

Feist reported that other ordnance activities had worked on the problem of high-speed spin effect without success, before Propulsion Department's

Under a 13,000-gravity loading created by some 250 revolutions per second, the solidly filled test cylinder of sustainer propellant — called an "end burner" - suffered a whirlpool effect in which burning propellant bored a hole through the forward wall of

Jerry A. Williams Named 'Bluejacket'

#### **Whirling Fuel Tamed** By Graphite 'Diffuser'

The rise of "conventional" warfare to a higher place on the agendas of strategy planners in the last few years has brought forth new demands on troop-support weaponry, and BOMROC,

under development here for the unconventional achievement needed to keep the U.S. ready at sea.

real" at the invasion of Inchon during the Korean War.

Propulsion Is The Key "Our big problem in developing a booster and sustainer motor combination for this rocket was to cope with the effect of rapid spinning on the burning of the propellant," said Ray W. Feist, head of Propulsion Department's Engineering Projects Branch.

its doubled advantage over previous models, every aspect of propulsion had to be enhanced, putting heavy stresses

recent solution.

its compartment in about five seconds.

"Diffuser" Solves Problem

In a pre-prototype "flightweight" model free flight test in early August, a device draining burned propellant gases from the sustainer motor's circumference to two centrally located nozzles proved itself as a solution to the problem.

The team of Code 45 technicians that designed and assembled the successful configuration included Jack Yeakey, Lonnie Pauls and Danny Meraz, all of Engineering Projects Branch. Yeakey and Pauls are aerospace engineers; Meraz is an engineering technician. Team leader is David W. Carpenter, who has worked on the BOMROC project since its beginning, in 1963. Ron Vetter of Development Engineering Branch and Bill Theilbahr of Materials Technology Branch, headed teams that developed propellant and heat resistant materials.

After the nine-inch long, hollow core, extruded booster propellant section fires-in about five seconds-gases from the end-burner sustainer are channeled through three tubular drains formed in a graphite block into a steel tube leading through the burned-out booster to two sustainer nozzles at the rear.

"This drain system, or diffuser, is pretty well destroyed after the sustainer propellant grain has finished burning,' says Carpenter, "but by that

(Continued on Page 3)

#### **NOTS Balloonist Captures National Title Second Time**

IN TEST DEPT. HANDS — In first flight

test of BOMROC, July 30, Clyde Hienzig,

experimental ordnance equipment mechanic,



Jimmy Craig

NOTS' Jimmy Craig brought the U.S. National Balloon Championship back to China Lake for the second consecutive year last week.

The Weapons Development Dept. employee soared to his second national championship in his multi-hued Raven S-50 balloon at the National Air 1956 to 1960. The Willi-Races held in Reno Sept. 10, ams now live at 311 Robalo.

(Continued on Page 3)

#### strengthened at the Rochester Institute of Technology, of NOTS' "Bluejacket of the Month" for September. Jerry A. Williams, PH1, of

prepares to insert rocket in tube at G-2

Range, while Art Butler, ordnanceman for

ammo and explosives, checks breach.

the photographic Division 13 at NOTS, learned of his selection as "Blueiacket" soon after returning to the station and the Rocketeer from a tenweek course in photographic quality control at RIT in New York State.

Jerry came to NOTS in October, 1964, from VFP-62 in Jacksonville, Florida, where he had enlisted in the Navy in June, 1955. He was a camera repairman with the Light Photo Squadron, and there acquired an affinity for electronics, one of his several avocations at China Lake.

He met and married his wife, Beverly, in Annapolis, where he was a photographer at the Naval Academy from China Lake, and have three Craig amassed 2,984 points children, Flora Jeanne, 5, now in four contests to the 2,673 in her first year of school at

(Continued on Page 3)



FAMILY'S IN FOCUS-"Bluejacket of the Month" from NOTS, Jerry A. Williams, PH1, applies knack for portraiture at home with wife Beverly, and children (I-r) Jerry, Jr., Flora and Kevin. Williams returned recently from 10-week photo course in New York.

# Desert Empire Fair Parade



As thousands watched, 20 years of Ridgecrest-Community progress was reflected in the 15th annual Desert Empire Fair parade.

Yesteryear's wasteland has evolved into twin-communities for the future.

Ridgecrest has progressed from settlement to a city of businesses, schools, homes, and churches.

China Lake, in whose boundaries once echoed the crack of mule skinners' whips which have been replaced by the whine of jet planes, has grown into one of the nation's largest research centers.

AT LEFT—Capt. John I. Hardy, ComNOTS, and Mrs. Hardy view mile-long parade.



NOTS COLOR GUARD LEADS DIVISION



TOMMY NELSON, THIRD PLACE WINNER IN NOVELTY NON-EQUESTRIAN CLASS



LOS ALAMITOS NAVAL AIR STATION BAND

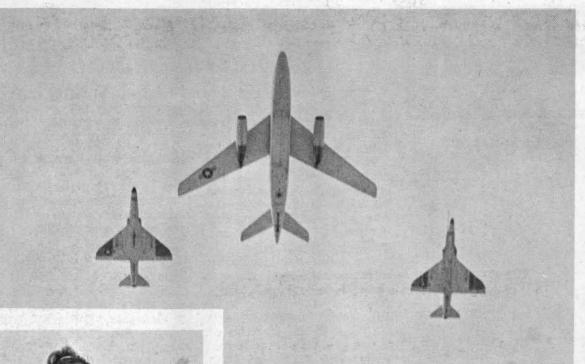
MISS BORON AND HER COURT



PARADE MARSHALL JODY McCREA



GOLDEN NUGGETS DRILL TEAM OF NEWHALL DISPLAY LARIAT TECHNIQUE.



Friday, September 24, 1965

ABOVE—NAF renders aerial jet salute.

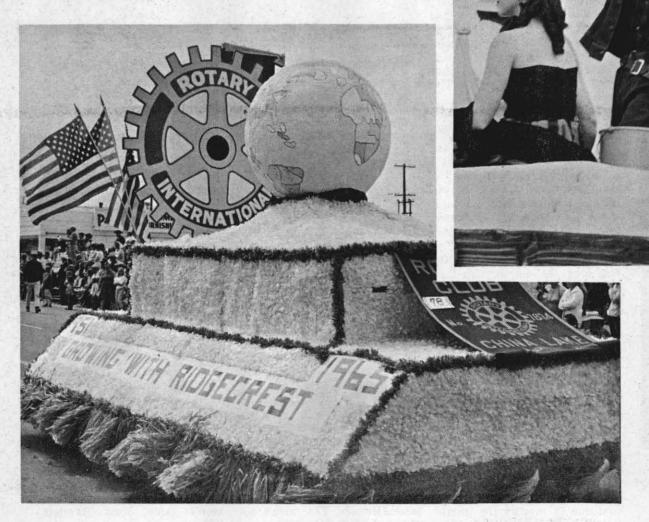
AT RIGHT—Ft. Irwin Army Color Guard.





DESERT EMPIRE QUEEN Janice Hukel (above) flashes regal smile to royal subjects in reviewing stand. Maturango Museum float with Ken Robinson depicting corncob pipe smoking, musket carrying, hardy pioneer, and "Pop" Lofinck as a "dry gulch" prospector call attention to Valley's Museum which houses exhibits relative to area.

Photos by Seth Rossman, PH3, and Jerry Willey, PHAN



CHINA LAKE ROTARY CLUB'S FLOAT DREW ACCOLADES FROM PARADE VIEWERS.



GWEN SPROUSE, MISS KERN COUNTY

### NOTS Pasadena



THE PROUD CREW of the USS Butternut (AN-9) celebrates her 24th year of active duty.

#### USS Butternut Marks 24 Years Service

The USS Butternut (AN-9), the only remaining Net Tender on active duty with the Pacific Fleet, and long a familiar sight to Long Beach area mariners, marked 24 years of continuous active commissioned service on Friday, Sept. 3, making her the third oldest ship in the United States Navy on active duty with a record of continuous commissioned

The Butternut operates in support of NOTS, assisting the Pasadena Annex and the Long Beach Sea Range Section in the test and development of ASW weapons, in towing and mooring duties, and in readiness for any task assigned. She remains under the administrative control of Commandant 11ND, although operating almost exclusively from Long Beach.

She marked the occasion of

"FLU" SHOT CLINIC—Free influenza inoculations will be available to military personnel and their dependents (over six years of age) and to NOTS Pasadena Civil Service employees today between the hours of 9 to 12 noon and 1 to 4 p.m., according to nurse Virginia Olson. Dr. E. R. Zumwalt, Industrial Medical Officer from China Lake, will conduct the clinic.



ESO VICE PRESIDENT Howard Miller (r) presents courtesy tickets to Captain G. H. Lowe, Officer in Charge, and D. J. Wilcox, Head, Underwater Ordnance Department, for the NOTS Masquerade Party to be held October 29th at the Arcadia Elks Lodge, 27 West Huntington Drive, Arcadia. Everybody's going — are you?

her 24th birthday with a fam- overseas deployments on recily cruise on Saturday, Sept. 4, Extensive War Duty She saw extensive wartime

and a cake cutting ceremony while at anchor off Rainbow Pier in the shadow of Long Beach's modern skyline. Twenty-four dependents and guests attended the cruise, which was blessed with warm and sunny California weather.

Built at the Houghton Shipyards on Seattle's Lake Washington, she was launched May 10, 1941 and placed in service Sept. 3, 1941.

After a short fitting out and training period, speeded up by the outbreak of World War II, she sailed for war duty in the Western Pacific on June 1,

There she remained for over 10 years, not returning to the United States until late Aug., 1952, and completing one of the longest continuous

Polaris Program

On return to the United States she was assigned to Commandant 12th Naval District as a District Ship, and was used for several years as a training ship operating out of the Navy Net School at Tiburon, Calif.

duty all over the Pacific, lay-

ing and maintaining anti-sub-

marine and anti-torpedo nets

at most of the major fleet an-

chorages in such areas as the

Solomons, Philippines, Admir-

alty Islands, Mariannas, Marsh-

alls, Carolines and Bonin, Is-

In addition to her primary

duties of net-tender, she also

saw extensive service towing

ammunition barges in support

of the fleet and in salvage and

mooring operations. After the

war, she saw duty in the Mari-

annas, did yeoman service off

WestPac duty in Japan, oper-

ating primarily out of Sasebo

and Yokosuka.

Iwo Jima, and finished out her

She trained numerous reserve units in net-laying, buoy and underwater tasks, and harbor defense.

In 1957 she was assigned to the Operational Control of NOTS in support of the Polar. Battle Begins is Missile "Pop - Up" program conducted at San Clemente

The USS Butternut is 162 to a quick lead as the result beam and displaces 760 tons. first night of NOTS Wednes-She has a crew of 4 officers day night winter league play. and 36 enlisted men who consider their duty the best in the Stanier, Coco White, Sam Navy. She is commanded by Brown, Phil Foster, and Ray Lt. Victor D. Modeen, USN, Hanson, while the Jacks and gets and Pasadena Annex ovthe 16th C.O. since her com- Better consist of Norma and

tensive three month shipyard Island in August, and appar- crown! ently her low silhouette and

#### NOTS Divers Picked For Vital Role In Sealab II

Navy divers attached to NOTS Pasadena and led by Lt. R Warren, are playing a vital support role in the Sealab II phase of the Deep Sumbergence Systems Project, 3000 feet off the coast of La Jolla, California.

The NOTS divers are being used as surface support divers to supplement and assist the Sealab II divers with the topside or surface diving and are standing by in case any emergency should arise.

ed in several bottom surveys, photographic missions, and a variety of other diving tasks using both "hard hat" and SCUBA at depths in excess of 200 feet. CWO-4 D. J. McCafferty and C. V. Taylor, DCC, made one of the initial inspection dives at the La Jolla sight surveying the bottom to find the most suitable area to place the gigantic 60' x 12' cylindrical Sealab II.

After the Sealab II was low-

ered to the ocean floor, R. Villasenor, BMI, made a critical "post lowering" inspection dive bringing back such vital information as bottom conditions, terrain, and visibility.

Other divers participating in The divers have participat- the support of Sealab II include Lt(jg) R. F. Bell; J. P. L. Flanagan, DCCS; W. R. Slaughter, BMC; C. Galik, ENCS; T. M. Gallagher, QMC; A. W. Holmes, HMC; C. H. Smith, HMC: E. G. Jones, BMI; F. T. Allen, BMI; J. N. Maxwell, DCI; B. F. Weeks, DCI; L. E. Carlson, MMI; K. W. Smallwood, GMGI; W. H. Williamson, HMI; K. C. Swales, BM2; R. E. Batty, BM2; R. D. McKinney, SFM2; and J. A. Grills,



TAKING TIME OUT from their Sealab II duties to pose for a picture are NOTS divers (I-r) R. E. Batty, BM2; C. H. Smith, HMC; A. W. Holmes, HMC; T. M. Gallagher, QMC; and C. V. Taylor, DCC. Seated in "hard hat" suit is B. F. Weeks, DCI.

## Winter League

The AstroNOTS and the Jacks and Better jumped off

The AstroNOTS are Kathy Jack Sayre, Pris and Jack Clemente Island. Four - year The ship completed an ex- Springer and Julius Bajusz.

overhaul at the Harbor Boat this season, with no less than Must have extensive experi-Building Company, Terminal 14 teams rampaging for the ence with principles, theories

High scores for the first istration and modified industhe prominent 18 foot horns week are as follows: team se- trial accounting. protruding from her bow will ries, AstroNOTS, 2305; team continue to mystify the unini- game, Hunees, 773; men's se- men's game, Russ Havslett. tiated in the local operating ries, Lyle Emerick, 586; wom- 243; women's game, Caroline en's series, Kathy Stanier, 577; Yuge, 219.

### **OPPORTUNITIES**

**PROMOTIONAL** 

To apply for vacancies, contact Nancy Reardon, Pasadena Personnel Division, Ext. 492. A feet long, 30 feet through the of four-game victories on the current SF-58 must be sumitted when applying.

Supervisory Budget Specialist, GS-11 or GS-12; P8012 -Responsible for preparation of UOD technical and capital buderhead budgets, including San degree in business administra-The league is a whopper tion or related field desired. and methods of budget admin-

#### **Surplus Property Sale Slated Here** On October 2nd for General Public

Hundreds of surplus govern- furniture, household appliancment items from the Station es, electrical and plumbing will go on sale here to the supplies. general public on Saturday, Oct. 2, from 9 a.m. to 3:30 p.m. This is the first such sale to be conducted at China

Friday, September 24, 1965

NOTS' Main Gate will be open for customers from 8 a.m. to 4:30 p.m. to allow access to Warehouse 14 where the sale will be useful to students. will be held. Signs will direct customers to the sale site.

All manner of government surplus property from NOTS the public "as is." will be available at half and less the price originally paid by the government.

Included in the surplus sale is automotive equipment and ments.

(Continued from Page 1)

scored by his nearest competitor, Lynn Emerich of Seattle,

in a field of 11 entries. Don

Kirsten of Fort Dodge, Iowa, placed third with 2,263 points.

Clinches Championship

tance of nine miles.

# Of Events Ahead

Of interest to students will

be some 500 surplus technical

books from the Technical Li-

brary. While the books have

been ruled obsolete for advanc-

ed research and development

conducted at NOTS, some of

the standard scientific works

Some of the surplus is used,

some is new. All items includ-

ed in the sale are offered to

ry and the cashier will be un-

able to accept personal checks

or other negotiable instru-

All sales are cash and car-

(Continued from Page 1)

4; and Kevin, 3.

Welcome In Bakersfield

Craig clinched the championship on the last day of the meet with a spectacular performance in the LeMans Start event, which is judged on start, altitude achieved, and distance covered all within one hour. 000 feet and covered a dis-Chamber members.

The balloons are laid out on the ground ready for inflation and on signal the ground feet to start the inflation to

"I had a terrific ground crew," Craig said, "they got me off in a hurry. They did a yoeman job and there were only four of them, Frank Lydon, Margy and Dick Zincke, and my wife, Carol. In fact she lost 10 pounds during the meet."

"Other pilots had from eight to ten members in their ground crews," Craig noted.

foot high balloon can sudden- an early interest in things techly become a sail-powered bull-

On the first day in the "Hare and Hound" event in which the "hare" balloon leaves some 30 minutes early after which the "hound" balloons follow and try to land as close as possible to the "hare," Craig placed fourth.

In the Altitude Control Event Craig placed second. An aircraft equipped with a barograph makes a series of sudden climbs and descents and the barograph tracing is given I can go deeper in electronto each pilot to duplicate as ics," says Jerry. "There are nard after a prolonged iflness. closely as possible. One hour quite a lot of things I'd like to is allowed for the feat.

"My experience as a glider pilot certainly helped me in this event," Craig said. "Understanding the barograph and using my variometer I was able during duty hours, plus a to duplicate the plane's maneuvers without any trouble."

"I just hope I can win next year," the 1965 champion said. "If I do I can retain the cup," he added, referring to the huge silver trophy which will be his if he chalks up a third

### Captures National Sept. Bluejacket Title Second Time Has Weekend

Desert Park School; Jerry, Jr.,

The Greater Bakersfield Chamber of Commerce will host Jerry Williams and his family starting this afternoon for a weekend on the town. They'll stay at the Holiday House, and drive a new car He reached an altitude of 7, from the Haberfelde Ford Agency, after receiving gift certificates from participating

Jerry's selection as "Bluejacket of the Month" will be crews race a distance of 100 reported by Burleigh Smith on Channel 17 at 6:00 this eveget the pilot in the air as quick- ning and on other stations in their news broadcasts.

> Days Are Full Jerry Williams has found the Navy a good place to keep busy in work that he enjoys both on and off duty, and adds hobbies and extra training to his photographic work at China Lake.

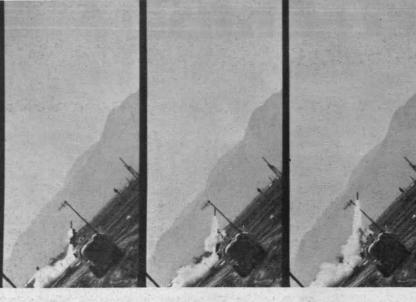
He was raised in Sedan, Kansas, and moved frequently with his father, an aircraft "It's a ticklish job," Craig company missile program worsaid. "In a stiff breeze, an 80- ker, from whom he received

> Jerry is president of the China Lake Model Airplane Club, in which he spends many evenings developing airframes, ensystems for flying models. The club flies wire controlled, radio controlled and free-flight models nearly every weekend on the dry Mirror Lake bed.

Takes On-Station Training "I am trying to get a good grounding in mathematics, so find out about it."

To that end, he is studying in a Navy-sponsored course in algebra by the screen-projected "reader training" method course in math at Bakersfield College extension.

"These hobbies and training and all fit very well into my family life," Jerry comments. "Beverly approves of them highly - since they all help to keep me around home!"



SUCCESSFUL TEST of BOMROC, July 30, begins in cloud of smoke as booster, using hollow core charge, starts its five-second

burn. Sustainer's "diffuser" performed as hoped, making exhaust gases behave under more than 13,000 G's of loading.

#### **Controlled With** 'Diffuser' Device

(Continued from Page 1)

time it has done its job." Putting the Heat On

To use the highly advanced propellants developed by Vetter's team, Theilbahr and his people have had to develop unusual materials combinations to withstand the high heat and erosion problems due to exhaust gases of the fuels.

"The BOMROC model we'll be testing soon will have a 40 to 1 booster to sustainer thrust ratio, from an especially fastburning booster propellant grain," Carpenter explained. "The exhaust gases reach about 6,000 degrees Fahrenheit, much higher than most solid fuels."

Complementing the high heat resistance of the graphite nozzle parts within the 60-lb. rocket, are parts of asbestos reinforced with resin, for structural integrity. Machinists at Michelson Laboratory turned out the high grade steel shell and structural parts for captive test (heavyweight) and free flight (flightweight) mod-

"We're quite satisfied with the progress we've had so far," and is to be fired from pressaid Carpenter, "and we are ent launchers, slightly modi- now on the BOMROC project now at work optimizing fuels fied. and motor parts for further testing.'

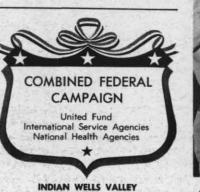
The next free flight testing is scheduled for early October. On Its Way To Fleet

BOMROC currently is aimed for introduction to the fleet

#### Maura McCreery Dies at Oxnard

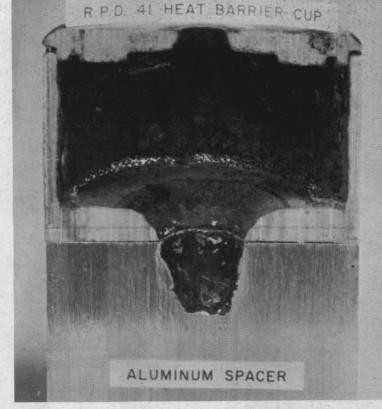
Word was received here last Saturday of the death of Maura McCreery, wife of Capt. Bernard L. McCreery, Director of Supply here from July 1962 to Feb. 1965.

Mrs. McCreery died Sept. 16 in St. Johns Hospital at Ox-Burial was in Arlington, Va.



CHINA LAKE

RIDGECREST . INYOKERN



WITHIN FIVE SECONDS, "vortex effect" created by 250 revs per second of BOMROC sustainer motor test segment, caused burning propellant to drill through heat barrier and aluminum spacer. Propulsion Dept. team solved impasse with "diffuser" of graphite that gathers gases from circumference.

within about two years. It promises to double the range of the present Mark 7 rocket.

"NOTS has been the leader in spin - stabilized rockets for some time," noted Ray Feist. "and the work we are doing will help keep us there.'

#### Supply Launches Project Pride

kick-off of Supply Department's Zero Defects." all-out Project PRIDE drive," this week.

"Our goals are high," the Captain continued, "100 per cent participation in the Stationwide drive to combine re-

ZERO DEFECT

CAPT. JEFFREY points to target for Zero Defects.

"Today marks the official newed effort in our jobs with

This is a total Supply Deannounced Supply Department partment program, empha-Director Capt. P. W. Jeffrey sized Captain Jeffrey, that will include Pasadena and China

Two Contests

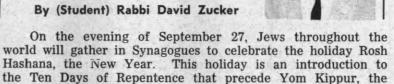
To add zest to Supply Department's serious Zero Defects program, the Captain described two contests that he's sponsoring in the Department. One is a slogan contest, the other is for posters. Intra-divisional run-off contests will be capped by competition between divisions for an all-Supply sweepstakes in each contest.

Winning slogans and posters will be used by Supply Department to carry out a continuing Zero Defects program.

Suggestion blanks and rules for the two contests were distributed this week to all Supply People, said Supply Department PRIDE Chairman Ted Bates. And, he added, contest winners will be announced at a departmental awards presentation on Nov.

#### JEWISH MESSAGE

### Rosh Hashana, Yom Kippur



A tradition relates that on Rosh Hashana God sits as a judge of all humanity. The fate of all living creation is decided at this time, whether he shall live or die, be happy or unhappy, rich or poor. On this Day of Judgment the decree is written into the Book of Life or Death. The tradition continues, however, and notes that should one sincerely pray and repent the judgment will be changed before the time that it is sealed on the Day of Atonement. As one of these prayers explains "The Lord does not want the death of the sinner, but that he repents from his ways and lives."

Ten days following Rosh Hashana is Yim Kippur, the Day of Atonement. At this time the fate of creation for the coming year, is sealed. Many Jews, recognizing the solemnity of this occasion do not eat, but fast the full 24 hours of the Holy Day.

The Yom Kippur service starts out with the prayer "Kol Nidre," litterally "all vows" in which one asks forgiveness for any vows that will be made in the coming year under duress or coercion, promises to God that one will not be able to keep. The Yom Kippur service is the longest in the Jewish liturgy.

It is a most important day, known as the Sabbath of Sabbaths. The service ends with the Neileh prayers, the "closing prayers" which symbolizes the closing of the Gates of Heaven and the finality of the sealing of the Book of Life or Death.

#### Memorial Services Held at Chapel for Ens. Marvin H. Clark Jr. of VX-5

Memorial services were held Monday morning at the All Faith Chapel for Ensign Marvin H. Clark Jr. of Air Development Squadron Five.

Chaplain Robert W. Odell, Chaplain Mark E. Fite, and Chaplain Edward F. Kane conducted the service. The 23-year-old officer died

at 12:15 a.m. last Friday when he lost control of his motorcycle and crashed into a light standard on Nimitz Ave.

He was a native of Ashtabula, Ohio, and a graduate of Ohio's Bowling Green State University. He was unmarried.

Ensign Clark came to China Lake on January 12 of this year after completion of Officer Candidate School at Newport, R.I.

He is survived by his parents, Mr. and Mrs. Marvin H. Clark Sr., 438 Myrtle Ave.,



ENS. MARVIN CLARK JR.

SERVICES

DIVINE

Christian Science (Chapel Annex)-

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

Holy Mass-7, 9:30 a.m., and 5:30 p.m.

6 a.m., Monday through Friday; 8:30

Confessions-8 to 8:25 a.m., 6 to 8:30

p.m., Saturday; Thursday before First Friday, 4 to 5:30 p.m.

Chapel)—8 p.m. every first and third

Sabbath School-10 a.m. to noon, every

first and third Saturday.

cated opposite Station Restaurant.

Roman Catholic (All Faith Chapel)—

Morning Service—11 a.m. Sunday School—9:30 a.m.

a.m., Saturday.

#### The Rocketeer Official Weekly Publication of the U. S. Naval Ordnance Test Station China Lake, California

Capt. John I. Hardy, USN Station Commander

"J." Bibby Public Information Officer

Frederick L. Richards Staff Writers Budd Gott John R. McCabe

Staff Photographers

Robert Hancock, PH2; Seth Rossman, PH3; nnis Smith, PH3; Jerry Willey, PHAN; and Ralph Robey, PH2 (Pasadena)

NOTS Jewish Services (East Wing All Faith DEADLINES: Tuesday, 4:30 p.m.

Photographs .....Tuesday, 11:30 a.m. The Rocketeer receives Armed Forces

Press Service material. All are official U.S. Unitarian Fellowship (Chapel Annex No. 95, Navy photos unless otherwise identified. Printed weekly with appropriated funds in compliance with NavExos P-35, revised July 1958. Office at 50 King St., Bldg. 00929. Phones — 71354, 71655, 72082. 85 King Ave.) Fellowship Meeting-Sundays, 7:30 p.m. Sunday School-10:45-11:45 a.m. (Chapel Annexes Nos. 1 and 2.)

CAPT, JEFFREY points to awards presentation

target for Zero Defects. 12.

#### PROMOTIONAL **OPPORTUNITIES**

Electronic Engineer, GS-13, Code 5520 -This position is that of Sidewinder Project Engineer in the Sidewinder-Chaparra Guidance & Control Project Office, Electromechanical Engineering Div., Engin-eering Dept. The incumbent will share responsibility for the Guidance and Control Unit of the Sidewinder 1A and Sidewind-

1C air-to-air missiles. It requires special technical faculties frared, radar, servo-mechanics, hot gas tors, gyro operation, electro-optica ystems, turbines, alternators, aerodynam

Position requires incumbent to perform perform production engineering duties, mechanical design, evaluation of proposed changes, and plan work assignments for the constant upgrading of missile per formance and its cost reduction. Incumbent must be familiar with all aspects of the guidance and control, servo

and seeker systems of the project. Incumbent must also determine kind and extent of testing and analysis Electronic Engineer (General), G5-11 or 12, Code 5522 — Primary work areas will circuit design production, enginee

ing and contract liaison on the electr ions of missile guidance systems. Incumbent will review and monitor co actor performance (via correspo and travel) to assure that the function, quality, and reliability of the equipment maintained at an acceptable level. Eval-ation of proposed changes and solution of production problems in the electronic

areas are part of this position. Design work will include conversion well as original semi-conductor circuit design. Will also analyse existing circuits to determine producibility and component stress levels.

ington, Bldg. 34, Rm. 34 Phone

Refrigeration and Air Conditioning Mechanic, Code 70433 — Installs, maintains and repairs refrigerating and air condi-tioning equipment and components used in providing refrigeration and air condi-tioning for living quarters, offices, and

Qualifications: (a) Completion of an apprenticeship of four years in the trade or four years of experience sufficient in content to be the equivalent of an apprenticeship; or (b) Four year apprenticeship as an Electrician, or four years of experience equivalent to an apprenticeship plus two years of experience in the installation, djustment, maintenance and repair o all types of refrigeration equipment. All ence has included or has been supple mented by at least six months of experience on modern air conditioning equip

File application with Dora Childers, Bldg. 34, Rm. 32, Phone 71393.

Business manager, G5-11 or G5-12, Code 4033 — Responsible for administrative management of a program involvin activities both on and off-Station, in nor technical areas concerning program administration, budgeting, reporting, personnel needs and servicing current and fu-ture needs for equipment and materials.

Qualifications Required: Incumbent must have familiarity with accounting principles and practices, and procedures used in the preparation of reports. Must be able to deal effectively with persons at

A minimum of three years of special-ized experience is required, which must have been administrative experience in staff services such as personnel administration, organization and methods examining, budget administration, fiscal administration, supply administration or traffic management; or work involving directing perating programs and executing policy

Mechanical Engineer, GS-9, GS-11, or in the field of design with emphasis on tructural dynamics of missile. Will analyze environmental determining test data to establish laboratory simulation of environment of the missile and sub-systems

File applications for above with Sandi Craig, Bldg. 34, Rm. 28, Phone 72676. Fire Fighter (General), GS-5, PD 584003-5, Code 842 — Performs normal duties in combating fires involving both airfield and structural fire fighting and rescue work; conducts preventive inspection; drives motorized equipment, assists in maintaining equipment and stations in top operating condition.

Qualifications required: Three years' experience in structural and airfield fire fighting and duties as described above.

Policeman, GS-4 or GS-5 (Two vacancies), Code 843 — Performs normal police duties, i.e. vehicle patrol, making ar-rests, protecting life and property, mainaining law and order, preventing crime,

preserving the peace. Qualifications Required: One year general experience as a regular member of a guard or comparable protective services force; and two years' experience in making arrests, patrol, traffic control, etc.

File applications for above with Pat Dettling, Bldg. 34, Rm. 28, Phone 72218.

Deadline for filing is October 1.

Information on Overseas vacancies is

avalable in the Personnel Bldg. MODECREST # INVOKERN CHINA LARE

#### **Sutherlen Will Lead Caravan To Panamint**

A caravan for newcomers to fabled Panamint City and to Surprise Canyon above it, is to lead off a busy October schedule for members of the Maturango Museum.

George R. Sutherlen, head of Ground Electronics and Frequency Coordination Division, will be caravan master for the trip set for Sunday, Oct. 3. Employed at NOTS since 1945, he has lived, worked, traveled and mined in many of the desert towns in the Panamint Valley and Upper Mojave des-

Tour Storied Locations

Weather willing, Sutherlen is to lead the tour group from the starting point at the intersection of Richmond (on station) and Trona Roads at 7

After reaching Panamint City, the group is to tour to the summit of the Slate Range, view old trails and camps and visit the ghost town of Ballarat, where Sutherlen promises to tell of his encounter with such desert characters as "Shorty Harris" and "Seldom

Other tour targets up the Canyon will be the camp of Chris Wick, long time guard at the entrance to Panamint City; the narrows where desperadoes Small and McDonald planned to steal Bill Stewart's silver; and the "smokestake sentinel" at 8,000 feet, the only remaining part of Stewart's

The trip is to be filled out and spiced with impromptu sessions of story-telling by Su-Flats and the old town of Ski-

trip is open to members, new



GEORGE SUTHERLEN

ter, food and warm clothing for car members, and to wear hiking boots. Family cars with good road clearance may be used, and should be filled with gas, oil and water before

The Museum's board of trustees have determined that any new memberships sold from September on, will be for the

Other activities of the Museum planned for October are a guided tour of the Petroglyphs on Oct. 24; three lectures by George Silberberg on therlen. It will include the such subjects as Valley water, Minietta Mine, where he work- wild game birds and Afghaned for many years; Harrisburg istan, and a reception for teachers of Valley schools.

Inquiries on Museum activi-The once-a-year ghost town ties can be called in to its office at ext. 723683 or brought members and prospective in person during its open hours members of the Maturango Mu- of 2 to 5 p.m. Saturdays and seum, only. Participants are Sundays and 9 a.m. to 1 p.m. advised to bring sufficient wa- Mondays and Thursdays.

#### Distinguished Churchman To Speak Here Sunday

The Reverend Richard D. Beving, noted clergyman and youth worker, will be the guest minister at the 8:30 and 11 a.m. Protestant Services at the All Faith Chapel this Sun-

His topic for the first service will be "Living in a Frontier" and for the second "Life on the Installment Plan."

At 3:30 p.m. he will speak to the Youth Fellowship in the East Wing of the All Faith Chapel on the theme "Never Let Me Down."

Involved in youth work since his student days at Iowa's Central College and New Jersey's New Brunswick Theological Seminary, he has conducted camps for youths for REV. RICHARD D. BEVING the past eight summers.

Ordained in the Reformed Church in America, he transferred to the Presbyterian Church in 1947. He has held pastorates in New Jersey and was the organizing pastor of the South Hills Presbyterian Church, Pomona.

Associate pastor of the First Center next Tuesday from 9 Presbyterian Church, San Fer- a.m. to 4:30 p.m. and Wednesnando, since 1957, he will en- day from 9 a.m. to 3 p.m., acter San Fernando Valley State cording to Austin Ross, Head College for full-time graduate of Employee-Management Restudies. to keep me around home!"



#### Aetna Agent To Be At Community Center Tuesday and Wednes.

Howard Keenan, representative of the Aetna Insurance Co., will be at the Community lations.

want a go that of the or

### Vampires 1965 Softball Champs



VX-5 WINS MILITARY LEAGUE—The "Vampires" managed by Joe Hootman, MA1, are the Military Softball Champs. Members with ream trophies and individual trophies, kneeling (I-r) are LCdr. R. E. Cooper; Hank Myers, AZAN; Joe Hootman, MA1; N. H. Perry, YN3; J. B. C. Perez, AK2; and J. W.

Armistead. Standing (I-r) are R. C. Johnson, SN; Lt. Don Merritt; T. M. Rose, ADR3; M. J. Saul, MA3; J. L. Schwarting, AMS3; Lt. W. E. Turlay, Lt. Gene Wanglie, and LCdr. G. E. Russell. Not shown: L. T. Yetter and W. R. Dalmas, YN2. LCdr. Don Loranger presented players their trophies.

balls for the tourney and prizes for winners and runnerup

The tournament committee also announced that all players, both new and previous members of the Club, should affirm their membership.

It set a brief business meet-Mixed Doubles-Entries will ing, with election of officers, be taken Saturday, and play for the starting day, Saturday, Oct. 2, at the courts. scheduled if interest war-

Entries may be made for The country with the most all events by contacting Don currency per capita is Switz-Beresford, ext. 77611, or Jererland with \$294.50 per perry Whitnak, ext. 723172. Speson; least recorded is Indone-

#### Rosh Hashana To Be Observed In Chapel Service

Rosh Hashana, the start of the Jewish New Year, will be ushered in at sundown on Sunday, Sept. 26. The new year on Jewish calendars will be

Rosh Hashana services will begin promptly at 8 p.m. at the East Wing of the NOTS All Faith Chapel. All interested persons are cordially invited to join the congregation in

### Trona to Host **Two-Day Meet**

Of Chem. Engrs The Mojave Desert Section of the American institute of Chemical Engineers will present a two-day technical meeting at Trona Unified School on Friday and Saturday, Oct. 8 and 9.

Three simultaneous technical sessions will include papers on Crystallization, Earth Science, and Computer Applications, Saturday morning. Saturday afternoon, three sessions will include papers on cesium uses, Computer Applications, and General Subiects.

On Friday, guests have the opportunity of touring either the American Potash & Chemical Co.'s Trona plant, or Stauffer Chemical Co's Westend plant.

Several industries will exhibit their products in the auditorium of Trona Unified School all day Saturday.

### **Tapestry Maker Visits Art League**

Mrs. Ruby Hufford of Lagu- 1st, currently teaches nine na Beach will be guest speak- classes per week in oils, coler Monday, Sept. 27, at the lage, tapestry - making (or monthly meeting of the Des- "stitchery") and papier mache.

ert Art League. p.m. at the Community Center ta (Kansas) National Show and for the presentation, business in the Design IX Show in Pasameeting, and introduction of dena this spring, and has

dent Betty Heflin.

The work of her needle has The League will meet at 7:47 been shown at the 1964 Wichinew League chairmen by presi- gleaned 23 awards since 1959. She plans to speak on tapes-

Mrs. Hufford, a versatile art- try-making to the League.



TOYLAND OPENING — Outdoor Shop Manager William West and Capt. Leon Grabowsky get an assist from pert Kari Lynn Grabowsky in opening Toyland for Yule season.

#### cial Services will supply tennis sia with \$2.15. **NOTS Blind Mathematician** To Speak at Braille Center

ed after the draw.

Ralph Middleton, NOTS blind mathematician, will speak next Tuesday in Bakersfield to two groups of students studying at the Kern County Braille Center.

Friday, September 24, 1965

**Tennis Club** 

Sets Out Plan

For Fall Meet

the Club's tournament commit-

The tournament will contin-

first and second round losers

will be held, with pairings and

schedules posted by Sunday,

Men's Doubles - Seeded

players will be paired with

non-seeded partners. Entries

will be taken until 10 a.m. Sat-

urday. The draw will be made,

and schedules posted later

Women's Singles — Entries

will be taken until 10 a.m.

Saturday, and schedules post-

the following schedule:

on schedule.

Oct. 3.

that day.

He will relate to the groups his own personal experiences in transcribing material into braille, particularly the complexities of translating computer programming texts into braille.

Middleton, who spoke at the 1964 National Federation of the Blind convention, thinks computer programming for the blind represents "a scientific breakthrough for unlimited opportunities for blind persons whose vision isn't limited to eyesight.

"The techniques and methods I applied in learning computer programming could be duplicated by others who are sightless," he emphasizes.

He believes the sightless are particularly gifted for computer work.



RALPH MIDDLETON

en's series, Kathy Stanier, 577. Yuge, 219.

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