

"ENSIGN PULVER" (104 Min.)

Robert Walker, Burl Ives, Millie Perkins

(Comedy in Color) Sequel to Mr. Roberts

Short: "Broomstick Bunny" (7 Min.)

--MATINEE--

"EVERYTHING'S DUCKY" (81 Min.)

Mickey Rooney

1 p.m.

Short: "A Boy and His Dog" (7 Min.)

"Sea Hound No. 11" (18 Min.)

"THE GREAT ESCAPE" (170 Min.)

"VIVA LAS VEGAS" (87 Min.)

Elvis Presley, Ann Margaret

"Swim Gym" (10 Min.)

"FBI CODE 98" (104 Min.)

Jack Kelly, Kathleen Crowley

the source of a bomb planted in the plane of a top electronic engineer. Inside look a

Short: "Birds Annonymous" (7 Min.)

OCT. 15-16

FBI. (Adults, Youth, Children.)

THURSDAY-FRIDAY

TUESDAY-WEDNESDAY

7 p.m.

--EVENING--

Steve McQueen, James Garner

a wacky ship. (Adults and Youth.)

THESE CHINA LAKE LOVELIES will perform in the WACOM Home Talent Show as chorines Tuesday evening, Oct. 13, according to Helen Fletcher, program chairman. From left to right are: Julia Manherz, Marcia

effective date for increased payroll deductions will be Nov. 8, 1964.

Employees will also receive a Standard Form 2809A, "The Federal Employees Health Benfits Program." It has recently been revised to reflect recent changes in the health benefits Smith, JoAnn Rusciolelli and Louise Hyten. law and regulations.

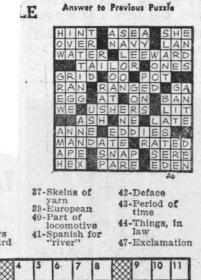
Commissary Store's **Produce Department** Renovation Starts Mon.

Work on the renovation of the produce department at the Commissary Store will start Monday, this week by Lt. J. F. Le Blanc, Commissary Store Officer.

"We ask Commissary patrons to please bear with us during the two-week renovation period," the Commissary Officer said.

Holy Name Society

The Holy Name Society will meet Sunday at 10:30 a.m. in the East Wing of the All Faith Chapel.





For Use In Authorized Service Newspapers On

17-Wooden pin 19-Sand hill 20-Peasant 21-Quadruped 23-Seemed

26-Leave out 27-Make

(abbr.) 29-Swordsman's

38-Slippery 39-Mend with

DOWN

30-Votes 31-Part of

33-Hurried

"A HARD DAY'S NIGHT" (87 Min.) The Beatles 7 p.m. (Music-Comedy) Thirty-six hours with the enowned Beatles as they play an engage nent, run to duck the hordes of admirers, re hearse, etc. Even Paul's Grandpa gets i the act. WILD! (Adults, Youth, Children.) Short: "Aquanuts" (17 Min.)

SHOWBOAT COM Auxiliary Sponsors Fashion Modeling Classes

The first in a three-month series of classes in fashion modeling will be held next Monday, Oct. 12, at the Commissioned Officers Mess (Open) under the sponsorship of the Women's Auxiliary of the Commissioned Officers television industry in addition

Conducting the course, which will include charm pointers, selfimprovement, social grace, poise and personality, will be Julia Manherz, a former stage and United Fund screen actress and fashion mod-

Classes are to be held Monday be held Monday at 7:30 p.m.

Classes for girls of high-school (War-Drama in Color) All allied POW age groups, are to be held on

ers of WACOM and Executive Dining Room and their dependents. Ladies interested in Manherz at Ext. 723901. (Musical Drama in Color) Sports car driver

The charm and modeling clasinto the Grand Prix. A tour of Las Vegas, the three-month period.

view of road racingl (Adults, Youth, Chil- der auspices of the American and August of 1965. Short: "Old Rockin' Chair Tom" (7 Min.) 5, was formerly under contract tions to be spent. count of the FBI's painstaking effort to trace

to fashion and photography mo-

(Continued from Page 1)

ergency Relief, IWV Branch, at 2 p.m. and Tuesday, Oct. 13 American Red Cross, IWV Counat 7:30 p.m. in the club's Mo- cil for Retarded Children, IWV jave Room. Subsequent classes, Recreation Council, The Salvafollowing the initial session, will tion Army, Campership Child Welfare Fund, Desert District, Boy Scouts of America, Joshua Tree Council, Girl Scouts of America, and Henrietta Weill's ementary age groups at 11:30 Foundation, Traveler's Aid. Blind Veterans, the latter four The course is available to grouped as miscellaneous agen-

"Installment" Giving

enrolling are asked to call Mrs. Station personnel—civilian employees and military - will receive is designed to reflect an honey for a new engine and sings his way ses will be held weekly through initial donation plus a pledge for payment in installments that Elvis sings, Ann dances, plus a worm's-eye- The course is conducted un- will fall due in February, May

> Beauty Charm and Modeling The card has individual agen-School. Its director, Mrs. Man- cies listed on the reverse side herz, wife of Commander Jack which permits donors to indicate OCT. 12-13 M. Manherz who commands VX- how they wish their contribu-

to 20th Century Fox, MGM and | The drive is to be conducted Monogram film companies and over a five-and-one-half week (Crime-Drama) An almost documentary ach has performed nationally in the period, ending Friday, Nov. 13.

TO TO THE REST OF THE PARTY OF	om		PLACI STAM HERE
ANALOGI SI SINIETA MASA MARA AND SINIETA SINIE	od all and	Con skieny s Devi nan i skie	or Committee of the Com

United Fund Drive Has Realistic 1965 Goal

100 Per Cent **Participation Emphasized**

"Participation" is the key word in this year's United Fund drive launched Wednesday morning following a kick-off breakfast at the Station restaurant with some 30 officials of China Lake and Ridgecrest present.

Citing a "realistic" goal of \$31,125 for 1965 support of nine Kernan instructed those present to emphasize "100 percent participation" in soliciting funds.

He stressed the point that this year's drive would be conducted at on-the-job levels, pointing out that this method had netted the campaign "50 percent more than the combined home and job soliciting technique.'

Pledge Card-"Key" Key factor in this year's campaign will be the pledge card which all Station employees and military personnel will get within the next few days.

Leonard S. Licwinko, Assistant to the Associate Technical Director, and Chaplain Robert W. Odell, Senior Chaplain, coordinators for the Station's drive, said "keymen" would be named this week with the first in a series of progress meetings set within a few days.

Representing Captain John I. Hardy, ComNOTS, who was away from the Station Wednesday, Captain Floyd F. Reck, Plans and Operations Officer, relayed to the kick-off meeting audience "Captain Hardy's assurance that the United Fund campaign will have full Station support."

NAF Top Supporter Captain Robert R. Yount, CO NAF, also present for the meeting, recalled that his command, the area's largest military unit, "will go all out as in years past to make this a record year in United Fund!"

The Ridgecrest delegation present for the meeting included President of the U-F board, Ed Harris, administrator of the Ridgecrest Community Hospital, in addition to business and civic leaders.

Agencies supported through United Fund contributions are, The Desert Area Family Counseling Service, Desert Area Em-

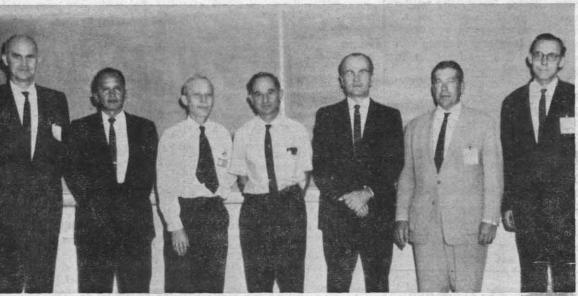
(Continued on Page 8)



NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA

Fri., Oct. 9, 1964

local agencies — a drop of near-ly \$16,000 over last year's goal — Campaign Chairman J. B. Mc-Kernan instructed those present Committee Meets Here



MEMBERS OF BUWEPS Advisory Committee on Aeroballistics meeting here are (I-r) Drs. R. E. Wilson, NOL, White Oak, Md.; S. de los Santos (chairman), David Taylor Model Basin, Washington, D. C.; W. R. Haseltine, NOTS;

W. A. Kemper, NWL, Dahlgren, Va.; L. L. Cronvich, APL, John Hopkins University; R. H. Peterson, NMC, Pt. Mugu, and R. O. Hollenberg, BuWeps, associate member. More than 70 service and industrial reps attended.

Set Example

It came as a surprise - more as a jolt - when U-F president Ed Harris announced at Wednesday morning's kick-off breakfast that, "As leaders in this year's drive, we'll have to set a good example right from the start.

"A pledge card has been placed by each plate, ladies and gentlemen!"

The announcement worked wonders. Before the meeting was adjourned, more than \$800 had been donated by the 30 people present!

\$32,026,775 Cost Reduction Savings Validated by Audit

The Bureau of Naval Weapons has advised NOTS that, of the er Spring, Md., and R. H. Petercost-reduction savings reported by the Station during Fiscal Year son, Naval Missile Center, Point 1954, a total of \$32,026,775 was validated by Navy auditors and Mugu, Calif.

included in Navy reports of achievement during Fiscal Year of excess and obsolete materi-The Station was also com- of idle production equipment.

the following areas:

(1) value engineering, (2) use Reduction Program.

als, (3) packaging, and (4) use

mended during the Annual Mil- The Station departments' re- K. Baker. itary Inspection for its achieve- ports of savings contributed ments in exceeding cost-saving greatly to the overall Navy tendance included H. L. Newgoals established by BuWeps. goals. All departments and their kirk, W. J. Werback, E. F. Win-Items reported by NOTS were personnel are encouraged to kel, R. E. Meeker, E. G. Roby, mainly cost-avoidance savings in continue to identify and report R. W. Van Aken, W. G. Younitems of savings under the Cost kin, M. D. James, all of Wea-

Unit Helps Find Youth in Piutes

including China Lake and Ridge- computation. crest members, brought 16-yearold Kenneth Newton, of Orchard Canyon Tuesday afternoon. the dominating subjects. Sheriff's deputy Don Glennon said Newton was unharmed.

Newton became lost about 7 personnel, met in Bldg. 60. a.m. Sunday in the Piute Moun- On Wednesday a joint meetwith his uncle, Ray Belvin, and committee was held in Conferanother companion, Don Swean- ence Room A of Mich Lab.

Glennon reported that Newton spotted the rescue helicopter Annual Gem, Mineral overhead Monday and stayed Show Slated at Trona near a creek until rescuers con- The Searles Lake Gem and 80 participated in the search, man, reported. Glennon said.

key research scientists and engineers, including 12 from NOTS, attended a four-day meeting of the Bureau of Weapons Advisory Committee on Aeroballistics here this week. It was the first conference of the group here in 12 years.

Top Researchers

Of Nation Attend

4-Day Conference

Meeting in panels at Michelson Laboratory, the Pilot Plant and in Bldg. 60, the conferees represented not only BuWeps

and NOTS, but many other Naval labs, defense contractors and technology institutes.

Members of the committee are Drs. S. de los Santos (chairman), David Taylor Model Basin, Washington, D.C.; W. R. Haseltine, NOTS; W. A. Kemper, Nayal Weapons Laboratory, Dahlgren, Va.; L. L. Cronvich, Applied Physics Laboratory, Johns Hopkins University, Silv-

Representing BuWeps as associate members were H. O. Hollenberg, R. Broberg and J. Wright, and panel member W.

pons Development Dept, (Code 40); H. M. Larsen and C. L. China Lake Rescue Spindler of Propulsion Development Dept (Code 45) and P. C. Slates, Research Dept. (Code

Five panel meetings in Mich Lab were devoted to aeroelasticity and structural dynamics drag, Combined efforts of Kern missile stability, heat transfer County Search and Rescue units, and applied mathematics and

At the Pilot Plant panel discussions, aerophysics and rocket St., Ridgecrest, out of Haight nozzles and jet effects were

Another panel, hosted by Weapons Development Department

tains, while on a hunting trip ing of the various panels and

tacted him about 1 p.m. Tues- Mineral Society will present its day. He had used up all his am- annual gem and mineral show munitions, and contact finally tomorrow and Sunday at Trona, was made by voice. More than Mrs. Edith Lamport, show chair-

Camping facilities have been A thunderstorm hit the area set up at Valley Wells for outan hour after Newton was res- of-town visitors, according to Bob Bostrum,



SYMBOL OF UNITY is demonstrated by leaders in Station's United Fund campaign which started Wednesday. (From left) Capt. Robert R. Yount, CO, NAF; Chaplain Robert W.

Odell and Leonard S. Licwinko, coordinators for Station; and Capt. Floyd F. Reck, NOTS Plans and Operations Officer, helped spark drive through use of pledge card donations.

ARC CONTROL PANEL - Milt Wolfson checks settings of

EAR HA

EAR PRO

voltage, current, and gas flow for plasma arc test series.

Code 4513's Job: Creating Materials to Withstand Space-Age Temperatures

A unique group on the Station devotes its time to discovery | gineers working on transpiration | rous," Robinson concluded. of methods and materials that will withstand the searing temper- | cooling. atures of new exotic fuels designed to improve the performance

of rockets and missiles. The control and utilization of the containment of extreme these temperatures — as much flame temperatures by "trans- bahr, here since 1962, are the der high pressure and temperablast furnace — is the exacting piration cooling," the design of trio investigating the "transpir- ture to the required density and which a gas such as helium is task of the Materials Research materials to withstand atmos-

Ramsdell, a NOTS employee of sound); the use of ultrasonic since 1953 except for a three year stint with the Interior Department's Bureau of Mines, is comprised of 10 metallurgical, chemical and research engineers, technicians, and skilled machinists.

Stainless Steel

Bearing Used in

Space Simulator

How do you suspend a 1250-

pound missile in space to test

NOTS scientists have done it

This stainless steel sphere is

tooled to a tolerance of 2 mi-

croinches, and rests on a pyrex

cup with a bearing surface as

Development Department, the

balance of a missile suspended

on a column of air is so delicate, the weight of two flies on

Yawl, pitch and roll can be

measured with the Air Bearing

Facility. Specifically, it is used

to house a dynamic simulator

Check-Out for Payloads

out system for payloads, attitude

control systems, and other sys-

tems that are to fly aboard

The "air ball," or dynamic

simulator, is a highly polished

air bearing, seated in the glass

bearing surface atop a steel col-

Has Dynamic Response

sponse times, overshoots, damp-

pounds per square inch.

It provides a functional check-

dip the missile downward.

for sounding rockets.

sounding rockets.

movement

et after burn-out.

According to personnel of the

perfect as man can produce.

its guidance system?

with an "air ball."

pheric friction heating at speeds This Branch, headed by Jack of Mach 8 (eight times the speed energy for metal forming, and the development of materials that can withstand erosion from rocket exhaust gasses.

Transpiration Cooling

to the problems of finding ma- velocity of the exhaust gasses as hot as ever.

Wolfson, A. T. (Temp) Robinson, both pioneer NOTS propulsion men, and William Thielation cooling" phase.

"This essentially consists of wall of a porous refractory ma- ing. terial," Robinson explained.

temperature of the porous re- at the hot surface." "Even in the short time that | fractory is lowered to a point | Under the Advanced Technol- a rocket or missile motor burns, where it will not erode while a correlated theoretical heat transegy Division, they seek answers the temperature and the great short distance away the flame is fer calculations with some sig-

Carrying on with the explanation, Wolfson said, "For example, we can compact very small porosity. The pores are filled with copper, silver, or tin which vaporizing a metal at the hot | melts and vaporizes during fir-

"As the metal at the hot sur-"It requires a great deal of face is vaporized away, more heat just to convert such a met- | molten metal is forced through al from the liquid to vapor at the porous matrix, and so the the same temperature. The temperature reduction continues

The Branch has successfully nificant experimental results. terials that can withstand the can almost literally chew up an "The solution is to use a ma- Specimens prepared in the new high-energy, high tempera- exhaust nozzle or combustion | terial for the nozzle or combus- | Branch facilities have been exchamber," commented Milt | tion chamber wall that is itself | posed to a plasma heat source Among those problems are Wolfson, one of the trio of en- highly heat resistant and po- for as much as 240 seconds

id tungsten specimen would have melted within 50 seconds.

spherical tungsten granules un- | by the Branch consists essentially of an electric arc through passed. The result is a temperature hot enough to melt any known substance.

Protective Coatings

For two years Milt Wolfson has been developing protective coatings for refractory metals such as tungsten, molybdenum, columbium, and tantalum.

Columbium melts at 4300 deg. F. and tungsten not until 6100 deg. F. Even these heat resistant metals need protection against the erosion of rocket exhaust gasses, Wolfson noted.

The protective coatings now under study consist of a first layer of "cermet" (metal dispersed in a refractory oxide) and an outer layer of highly heat resistant metal oxide alone.

The cermet provides better bonding of the coating to the metal and increases resistance to cracking and splitting off of scales of the coating when suddenly exposed to great temperature shock. The metal in the cermet minimizes the effects of expansion differences between the ceramic coating and the metal beneath.

Extensive metallographic examination of the coatings and all materials being investigated by the Branch is done by Ray Fen-

Ultrasonic Shaping

A. T. (Temp) Robinson, Jim Connelly, and LeRoy Stayton are studying the use of ultrasonic energy to shape and form metals which cannot be worked oth-

Essentially, ultrasonic means

by the Research Department's The program will be broad-Metal Physics Branch.

personnel of the Branch have field, with the assistance of designed and set up a labora- Hugh Chase. tory version of a wire drawing Ablative cooling may be best

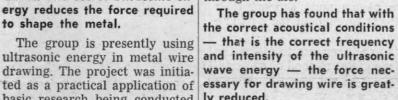
ates an ultrasonic transducer a coating which can be slowly which converts the high fre- sacrificed during motor firing

the correct acoustical conditions The group is presently using | - that is the correct frequency ultrasonic energy in metal wire and intensity of the ultrasonic drawing. The project was initia- wave energy - the force nected as a practical application of essary for drawing wire is great-

ened during the coming year to The Bureau of Naval Weapons extend the areas of applied reis vitally interested in finding search and to examine possible

Ablative Cooling

described as providing combus-The physical setup incorpor- tion chambers and nozzles with



Another area of research in the ultrasonic energy studies be- which the Branch is involved is ablative cooling. Elder Bartel, a Whitman College chemical engineering graduate, is conduct-

Bartel pointed out.

ROCKETEER

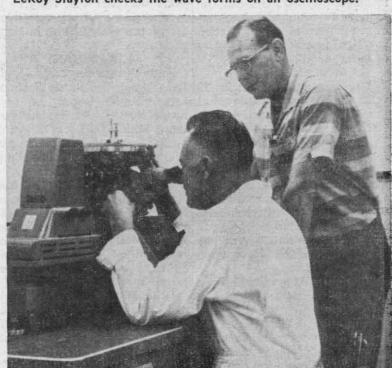
One of the experimental ablative materials — a polyethylene compound - produces a "bounday layer" of decomposition products that not only reduces heat transfer from the exhaust to the nozzle, but also successfully protects the nozzle throat from chemical attack by the corrosive propellant gases.

The Materials Research Branch is cooperating with the Applied Research Branch (also in the Advanced Technology Division) to combine the ablative cooling concept with the transpiration cooling theory.

Materials such as plastics will vaporize on the "cold" wall of a porous matrix and then transpire through this wall to the cool boundary layer on the "hot"

"It is hoped that such a technique can be applied to advanced liquid engines for newer missiles as the Branch continues its efforts to find materials that can withstand the everhotter new propellants," Bartel

with ultrasonic transducer which is used to draw wire under ultrasonic radiation to improve its deformation. At right LeRoy Stayton checks the wave forms on an oscilloscope.



AT METALLOGRAPH — Ray Fenley (seated) and "Temp" Robinson examine structure on coated specimen with a metallograph, which brings out detail at 1,000 magnification.

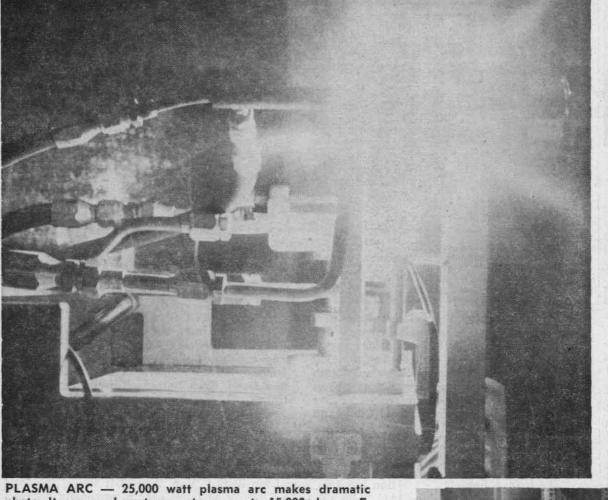
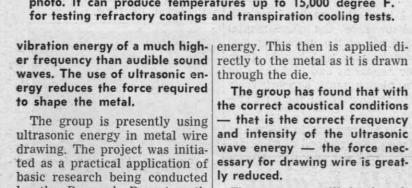


photo. It can produce temperatures up to 15,000 degree F. for testing refractory coatings and transpiration cooling tests.



new ways to process refractory new areas of application. metals and has played a major role in procuring equipment for ing conducted here.

Design Own Equipment In carrying out their studies, ing a series of studies in this

quency energy into mechanical and yet retain the necessary



TEST BENCH - Milt Wolfson and William Thielbahr ready plasma arc equipment for high temperature test of NOTSdeveloped heat resistant coating for nozzles and chambers.

Astrometrics Division, Weapons the nose cone is sufficient to

NOTS Scientists Float Missile on Air

To Test Infra-Red Guidance System

umn through which air is forced 'FLOATING' MISSILE reacts as infra-red guidance system is activated with flashlight by Leroy Ogan of Weapons Develto maintain a pressure of 220 opment Department. "Air Ball" development simulates fric-Thus, the bearing "rides" on tionless attitude movement paralleling "after burnout" cona column of air, providing a ditions in space. Close-up of "air ball" may be seen at right. high degree of attitude freedom.

and nearly frictionless attitude Simulated conditions are nearly identical to the sounding rock-

ing, assembly, or precession an- cal capabilities. Dynamic response of the simgle value in the Attitude Conulator to Attitude Control Sys- trol System are immediately ap- In tests performed this week, fem command (transient re- parent during a simulator run. the infra - red guidance system

ing characteristics, trail angle be mounted without modification flashlight beam. to non - stationary targets and on the simulator and made to The test vehicle weighed 1250 limit cycling) will be very close | run through its entire flight pro- pounds, and had a pressurized to that experienced by flight ve- gram on its own battery power chamber on each side of the Studies performed with the

simulator will provide useful flight. data on time required to position the vehicle in a desired at now for a current space probe the jig flanges to permit free titude, pointing accuracy, limit program, its use is not restrict passage of air and maintain balcycle amplitudes, and proper ed to sounding rocket payloads. ance. signals to provide accurate Any system test requiring near- "Operation Air Ball" was latracking of a moving target. ly frictionless suspension with belled a big success.

Functional check-outs of inte-| reaction jets for attitude congrated payload systems also can trol can be performed on the be achieved with the simulator. simulator, provided the weight Errors Known Quickly and dimensions of the test In addition, any errors in wir- equipment are within its physi-

Reacts to Flashlight An entire payload system can on the test missile reacted to a

supply and pressurized gas, and "air ball" to equalize any changits operation witnessed prior to es occurring in air pressure. The stainless steel ball is hollow, Although the simulator is used and has connecting openings in

Kenneth G. Collins Potluck Dinner Meet To Appear on TV

might expect, but in a more pas- Chapel. sive role as an artist.

the Teton Artists Associated in wishing to help with preparathe Jackson Hole country of Wy- tions for the dinner is asked to oming he was photographed by contact Connie Shaw at 75494. a Jack Douglas camera crew. The scenes will appear in

Douglas's new travelogue food drive, and any usable or area on or about Tuesday, Nov. the children's ward of the Sta-3, Channel 4 at 7 p.m.

Security Policeman Cdr. Manherz to Speak At VX-5 Wives Club

Commander J. Manherz, Ex-NOTS security policeman Ken- ecutive Officer of VX-5, will be neth G. Collins will make his guest speaker at a meeting of first appearance on TV, not as the VX-5 Wives Club, Tuesday a sheriff of the old west as one in the East Wing of All Faith

The meeting will open with a While painting recently with potluck dinner at 6:30. Anyone Contributions to the canned

"America" and will show in this repairable toys and books for tion Hospital will be welcome.



OUTGOING COMMANDING OFFICER, Lt. Lee O. Smith (1) bids farewell to crew of the USS Butternut, while welcoming aboard new Commanding Officer, Lt. Victor D. Modeen.

Change of Command for 'Old Lady of the Sea'

Commemorating 23 years of | lieved Lt. Lee O. Smith as Compendents and visitors last week. in Hawaii.

USS Monticello (LSD 35), re- capacity.

commendable performance, the manding Officer of the little USS Butternut (AN9), the last ship. Lt. Smith will report to of her class of net tenders still COMDESRON 11 as Staff Operin commission, played host to ations Officer on the USS Goldsmembers of the crew, their de- borough (DDG 20), homeported

In a dual celebration, the 16th The Butternut was assigned Change of Command was also to NOTS in 1957 for operations Lt. Victor D. Modeen from the and continues to serve in that

Promotional Opportunities

for the protection and safeguard Morris Dam Range.



SYSTEMS OPERATIONS Division held ceremonies recently honoring five men reaching their 20-year milestone in federal service. Recipients shown (I-r) are Winslow L. Rain-

Howard A. P. Smith, and Arthur I. Miller. Continuing (I-r) are D. J. Wilcox, Head, UOD; D. A. Kunz, Head, Systems Operations Division; and Capt. G. H. Lowe, Officer in Charge, bolt, Joseph P. Strapp, Andrew A. Juhasz, who offered congratulations to the quintet.

Five Represent Century of Service

and lapel pins denoting 20 years rovia.

of government service. W. L. RAINBOLT

of all P80834 electrical equip- Award.

served in the U.S. Navy from rean conflict. Returning to Chi- Equipment, Propulsion Section,

have two daughters — Julie Ann Originally from Niles, Michigineers. and Karin. J. P. STRAPP A Supervisory Engineering children — Sandra Lee 12, and general pit work, working with

Technician, Strapp is Assistant Jeffrey 10. Head of the Propulsion Lab and

was represented recently by five tary service consisted of 21/2 During his 11-year tenure with dies with a 578. members of UOD's Systems Op- years with the U.S. Navy. NOTS, he has received a Supeerations Division, when each re- A native of Akron, Ohio, rior Accomplishment Award for ceived letters of commendation Strapp presently resides in Mon- work in this field.

A. A. JUHASZ

A resident of Anaheim for 19 Long Beach Sea Range Section, mouth, N.J., Civil Service with years, Rainbolt was employed at accomplishing testing of ord- the Air Force both at Rod Bank, the Long Beach Shipyard from nance items and weapons sys- N.J., and Los Angeles Procure-1951-1958. He has been with tems. With NOTS for 15 years, ment Department. NOTS for the past 6 years, per- he has received a Superior Ac- Born in Terre Haute, Ind. forming as electrician in charge complishment and Outstanding Smith presently resides in Pas-

ment on the YFU-53. During Juhasz served with the Ma- and daughters - Patricia 20, this period he has received a rines from 1940-1947, came to and Shirley, 17. Sustained Superior Performance NOTS, China Lake, in 1948. From 1951-1952 he was recalled Originally from Arizona, he to the Marines during the Ko- ic, Experimental Ordnance na Lake until 1956, he trans- began his federal service career

H. A. P. SMITH

years; 3 years at Pasadena and Section, working with electronic in Temple City.

Federal employment other than NOTS includes service with Andy Juhasz serves as Head, the Signal Corps at Ft. Mon-

adena with his wife, Dorothy,

Arthur I. Miller, Test Mechan-Rainbolt and his wife, Kathryn ferred to NOTS, Pasadena. in 1941 with the U.S. Army En-

> gan, Juhasz resides in Los Ala- Associated with NOTS since mitos with his wife, Joan, and October, 1945, he presently does exotic fuels and on experimental vehicles.

charge of the Measurements Lab. "Hap" Smith is an Electron- Miller, his wife, Juliette, and He has been with NOTS for 19 ics Engineer in the Laboratory daughter, Rosemary 21, reside

NOTS Pasadena

UNITED CRUSADE Fund Drive Chairman, John J. Fogarty (foreground) instructs key men selected for the 1964 campaign. Shown (I-r) are - Carol Brinley, Ken Leisge, Judy Sheppard, Charlene O'Conner, Carole Ostrander, Lt. D. A. Smith, Sue Burg, Donna Baker, Jane Ingham, Fogarty, Glenn Thorson, Fiven Gomez, Doreen Spaulding, Robert Cline, and

Bernie Morrison. Not present for picture were Irene Brown, Blanche Reust, Wini Wishart, John Whealen, Nora Lee, Robert Clunk, Peg Higgins, Betty Halminski, Robert Gottfredson, Steven Valihora, Jeannine Wolfe, Eldon Dunn, Fran Johnson, Charles Black, Lt. (jg) K. W. Eveland, and ABF1 (DV) E. G.

United Fund Drive Starts Oct. 16

By John J. Fogarty tion Chairman, 1964 Fund Drive ted.

ROCKETEER

To apply for vacancies con- of classified areas, equipment, Friday, Oct. 16, the United I hope that each of us will ent period of time. tact Nancy Reardon, Pasadena and material. Knowledge of Fed- Crusade Fund Drive will official- acknowledge the fundamental Personnel Division, Extension eral, State, County, and City ly get underway. With the con-492. A current SF-58 must be laws desired. Must qualify an solidation of the United Way organizations that benefit from Guard, GS-4, PD 24132-17, arms. Must work rotating shifts tunity is presented to subscribe we pledge must support their

> I urge everyone to utilize the oledge form method of subscrip-

Fall League In Full Swing

The NOTS Pasadena Bowling League has begun Fall play at the Bahama Lanes, with the 12 teams entered expected to proride an exciting season.

"All teams are evenly natched," according to League resident Mert Welch.

High team series in first night play was turned in by the Alley Kats with a 2331. Team members are Welch, Jan Cardwell, Ruth Neff, Dick Batters, and Ray Hanson.

Lyle Emerick posted the Center, Great Lakes, Illinois. men's high series with a 599, His tour of duty at NOTS cov-A century of federal service 16 years at Morris Dam. Mili- design and Instrumentation. while Jane Caghagen led the la-

LCDR. R. M. HENDRICKS recently detached from duty as Assistant Public Works Officer and OICC/ROICC for NOTS Pasadena and SCI has been selected for promotion to Commander, LCDR Hendricks presently is assigned to Naval Administrative Command, U.S. Naval Training

1962, to August, 1964.

sum over a personally conveni-



IN RECOGNITION of their excellent safety record, personnel of the Ballistic Range Section, Morris Dam, receive a Safety Commendation Certificate. Presentation was made by Joe Taber, Head, Range Branch (left). Others (I-r) are: Bernie Pennino, Cecil Ballard, Fiven Gomez, Art Backlund, Norm McDonald, and Bob Larson, section head. Not present are: Bob Evans, Chuck Grandall, Bud Schroeder, Norm Wyman, and Dick Helman, who also shared in commendation.



MRS. JOHN HARDY (center), wife of the Station Commander, receives ticket from Mrs. Woodrow Chartier for Chi Alpha Chapter, Beta Sigma Phi benefit. Mrs. Crill Maples (left) and Mrs. Chartier model fashions like those which will be given away to lucky winner. Slacks and cocktail dress will be included. Event will take place Oct. 31. For further information, and ticket sources, call Mrs. Maples at 723014.

AOA Members Two More Promoted Plan Tour of Vandenberg

Members of the China Lake Post of the American Ordnance Association were making plans this week to attend a briefing and tour of Vandenberg Air Force Base on October 23.

Post President Harold Metcalf and Vice President Capt. Ronald E. Jensen, USAF, program chairman, announced that the group going from here must be limited to 40 members. They are asked to contact Capt. Jensen at Ext. 71403 to make reservations. Cost of luncheon at Vandenberg will be \$2.50 per person. Airlift to the base will be provided, departing NAF at 8 .m. on the 23rd.

The invitation to attend was ent by Major General S. W Wells, USAF, Commander of the 1st Strategic Aerospace Division. Complex and all other facilities for promotion to commander. and activities of the base.



NOTS INVENTORS AWARDED \$800-Capt. Floyd F. Reck (left), and Peter H. Firhst, Station Patent Counsel (right), pose with local inventors at awards ceremony. Patent winners (I-r) are Harry L. Devereaux Jr., \$100, Code 30; William R. McBride, patent certificate, Code 50; Wayne R. Carpenter, \$100,

Code 50; Earl J. Donaldson, \$100, Code 35; John M. Boyle, \$100, Code 35; Duane J. Russell, \$100, Code 40; and Howard W. Kruse, patent certificate, Code 50. Others granted \$100 awards but not present were Thomas A. Amlie, Code 35; Mel Creusere, Code 35; and H. Powell Jenkins Jr., Code 45.

Slick Trick

Housing Assignment Procedures Changed

Procedural changes in housing assignments for NOTS em- into the water. ployees and military personnel serving at China Lake were announced this week following a periodic review of policies and administration of Station hous- by Oct. 23, this year, to be in-

cluded in the listings issued for The changes and effects were November. enumerated in a NOTS Instruction, distributed to all Station fective Nov. 1 this year. Representatives of all Station

Areas of eligibility, assignment and occupancy, separating organizations were briefed on and vacancy are key areas affected by the changes, accord- ing conducted by Housing offiing to the Notice, which advis- cials last week. es those awaiting housing (apcations in those instances where cations in those instances where

Names of those who applied for a particular type of house Bills Comedy for which they will no longer be eligible (in accordance with "Man In a Cocked Hat." the new procedures) will be au- spoof on the British Foreign Oftomatically dropped from that fice, will be the second show-

it was emphasized.

The new changes become ef-

listing, according to the Notice. ing of the 1964-65 China Lake Names will be included on lists Film Society season next Monfor which applicants are eligible, day and Tuesday, Oct. 12, 13. The film will be shown both Those wishing to be placed nights at 8 p.m. in the Commuon lists for other houses for nity Center, according to Larwhich they will be eligible ry Mesple, Film Society presishould submit new application dent.

LCDR. G. W. MYER



LCDR. H. E. RUTLEDGE

1st Strategic Aerospace Division.

His staff will brief all AOA visment, VX-5, and Lieutenant Commander Howard E. Rutledge, itors on the Western Test Range Military Consultant, Weapons Planning Group, have been selected

To Commander Rank

Following luncheon, they will with the class of 1950, LCdr. tour the latest control and Myer reported to VX-5 from dulaunch facilities for strategic ties with the staff of Commandmissiles such as Titan II and er, Naval Air Force, U.S. Pacific Fleet, in early 1963.

served with VF-51, VA-146 and Phyllis, make their home local-VX-4 since graduation from ly at 201 Shangrila Circle. flight training at Pensacola in

en, 13, George, 10, Richard, 8,

U.S. Naval Post-Graduate School.

GEBA Assessment Waived for Death Of Emery Bowers

ue to the death of GEBA member Emery J. Bowers, it was announced by secretary - treasurer Joseph M. Becker this

The 56-year-old Propulsion De-Hospital last Saturday.

in 1953.

A Naval Academy graduate attended the University of Tul-

earning his commission in 1950. Sondra Sue, 12, John K., 9, Peggy Jo, 4, and Barbara Ann, 3, LCdr. Rutledge and his wife,

LCdr. Myer lives with his wife, Anne, and four children, Karen, 13, George, 10, Richard, 8, and Stephen, 3 weeks, at 301 Back from London LCdr. Rutledge reported to Scientific Meeting

Propulsion Development He had previously served with Dept.'s Leroy J. Krzycki, Condor propulsion engineer with A native of Tulsa, Okla., he the Technology Div. returned this week from London where he chairmanned the three-day meet of the Triparite Radar Attenuation Working Group.

The NOTS' engineer was appointed to head the group by the Bureau of Naval Weapons in

The meeting which was attended by representatives from the United States, Canada, and England was held at Westcott, velopment Dept. employee died Buckinghamshire, England, and at the Ridgecrest Community at the Ministry of Aviation in

He was active in community | Conferees exchanged informaand fraternal affairs. At the tion in the fields of rocket en-During World War II, at the time of his death he was presiheight of meat rationing, a Tex-dent of the local Shrine Club, of electronic guidance signals as shipyard used bananas in a member of the Al Malaikah and resulted in definition of a stead of grease to prepare the Temple, and the IWV Masonic cooperative program between ways on which new ships slid Lodge 691. He came to the area the United States, Canada, and Great Britain.

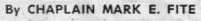


PUBLIC WORKS DEPT. personnel evince pride and gratitude after receiving awards from Capt. C. A. Reilly, Public Works Officer (left). Recipients of Sustained Superior Performance awards are (I-r) L. D. Bohanan, Betty Jo Yingst, Walter Schmid, Mary

Schroeder, R. E. Hartley, Mildred Amos and Bobby Brown; Geneva V. Snyder (extreme right) won Superior Achievement award. SSP awards also went to Floyd Wegley and Clyde Burum, and Howard E. Auld was presented a Beneficial Suggestion award.

CHAPLAIN'S MESSAGE

Are the Issues Being Clouded?



The issues at stake in our government are important and it behooves each of us to obtain as much information as possible in order to make our best decisions how and for whom we should vote. I believe that every conscientious person wants to make his vote express his desire for what is right.

The presidential campaign moves along with less than one month to go before election. If we listen to the words used by each candidate as he speaks about his opponent, we wonder if there are positive issues on which either stands. It's difficult to believe that Americans would vote for a man who is quoted as being a "ranting, raving demagogue" or any of the other invectives used to describe the character, ability, merits or demerits of either

I'm certain that both candidates have some very fine qualities about them. They surely must be able, patriotic men or else they'd not be in their present positions. Surely the nation is not going to be as bad off as each claims if his party loses.

It seems our first impulse is to throw stones at our opponents. If we do not guard against it, this idea and practice will slip into all areas of human relations. The tendency is to blame the other side for what is wrong.

Just how free of blame are we in the "cheap and dirty" language used in the presidential campaign? Isn't it to our shame that such exists? Where is our honesty and integrity if we permit other countries to get the impression that the affairs of state are a joke with us?

There is something we can do that will help. We can be reminded that Jesus had something to say when one maliciously attacks another's character (Matthew 5:22 - last part).

Also we can remind the presidential candidates as well as all others in places of leadership that we can believe that "Righteousness exalts a nation but sin is a reproach to any people"

We can pray that these persons will have wisdom to know what is right, and that we expect them to act accordingly.

All Invited

To Catholic

"Carrying the Cross" will be

Chapel "Bible Service." Dorothy

the nightly devotions, and all

Student Rabbi David Zucker To Preach Here

Student Rabbi David Zucker brings a wealth of personal and Bible Series religious experience to NOTS next Friday, Oct. 16, when he conducts his first service here the subject at 7:30 tonight (Frifor the local Hebrew congreday) for the NOTS Catholic

The service begins at 8 p.m. | Swann will present the service, in the East Wing of All Faith which is replacing the tradition-Chapel. Sabbath School lessons al October Rosary Service. for children five years and old- Teams of lay people are parer will begin at 10 a.m. the fol- ticipating in the presentation of

Mr. Zucker was born in the residents of the China Lakestate of Nevada. Upon moving Ridgecrest community are invitto the Bay Area he attended ed. schools in the Oakland sector.

He interrupted his edecational tains for the balance of the of the balance of the other tains for the other t versity, where he received a week are: Saturday, "Crucifix- the close of business on October 26, 1964. Bachelor of Arts Degree in the ion," Virginia Beresford; Sun-Social Sciences in 1964, in or- day, "Resurrection," Mary Donder to participate in the Jew- aldson; M on d a y, "Ascension," ish Agency program in Israel Ellen Belisle; Tuesday, "Descent as part of the Institute of Youth Leaders. During this period he of the Holy Spirit," Charlotte first spent a very interesting Ostermann; Wednesday, "Asfive - month tour in Jerusalem, sumption," Ethel Ritchie, and and then had the very enrich- Thursday, "Consecration of the ing experience of being in a Blessed Mother," Anita Kleine. Kubbutz for five months.

The Rocketeer

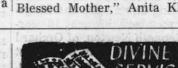
Official Weekly Publication of the U. S. Naval Ordnance Test Station China Lake, California Capt. John I. Hardy, USN

> "J." Bibby Public Information Officer Jack G. Broward Editorial Advisor Richard Grueneberg Budd Gott

Frederick L. Richards Special Assignment Bill Borgstadt

DEADLINES: .Tues., 4:30 p.m.

...Tues., 11:30 a.m. The Rocketeer receives Armed Forces Press Service material. All are official U.S. Nav photos unless otherwise identified. Printed weekly with appropriated funds in compli ance with NavExos P-35, Revised July 1950. Office at 50 King St., Bldg. 00929. Phones-71354, 71655, 72082.



Christian Science (Chapel Annex)-Sunday School-11 a.m.

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) located op-

Roman Catholic (All Faith Chapel)— Holy Mass-7, 9:30 a.m., and 5:30 p.m.

6 a.m. Monday through Friday, 8:30 a.m. Confessions-8 to 8:25 a.m., 6 to 8:30 p.m. 4 to 5:30 p.m.

NOTS Hebrew Services (East Wing All Faith Chapel)—8 p.m. every other Friday. Every first and third Friday, 8:15 p.m. Unitarian Fellowship (Chapel Annex, 85 King

Fellowship Meeting—Sundays, 7:30 p.m. Sunday School—10:45-11:45 a.m.

PROMOTIONAL OPPORTUNITIES

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

Mechanical Engineer, GS-9, Code 5521 The incumbent is responsible to a senior en-gineer or section head in the performance of election of components and hardware as test procedures to evaluate the effect on the

electronic Engineer (Solid State Devices), G5-11, PD 455046, Code 5521-Incumbent is responsible for design of electronic circuit and electronic components as employed in servo system. Develops test procedures to evaluate the effect of the system. Incumbe is also required to make calculations to prerameters, supervise draftsman, schedule the components satisfy system specification

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

Electrician, WB28005-11, JD 180-2, Track Operations Branch, Code 3072—The incumbent various electrical wiring systems, electrica controls, electrically operated equipment or instruments, light and heavy electrical machery and electronic equipment in supprot the Supersonic Track Operation. File applications for above with Joan Lines, Bldg. 34, Rm. 34, Phone 71514.

Management Analyst, GS-13, PD 317012-2, Code 174—Serves as project leader on the Analysis Division as assigned by the Division study, plans the execution in terms of steps mation to be gathered to accomplish the oba and reviewing their work.

either a Bachelor's degree or three years' general experience preparatory to management analysis work, must have three years pecialized experience in analysis, evaluation evelopment and improvement of manageric licies, practices, methods, systems and proredures. Specialized experience must includ t least one year at GS-12 level.

Clerk (DMT), GS-316-3 or 4, Code 4021-

velopment Department, Missile Branch, Har gar 1. The incumbent will perform secre-arial type duties for the Head of the Branch

Schneider, Bldg. 34, Rm. 26, Phone 71648.

Deadline for filing is October 16, 1964.

NAVY OVERSEAS VACANCIES

Electronics Engineer, GS-12, Guam.
Printing Specialist, GS-9 or GS-11, Guam.
Management Analyst, GS-9, Japan.
Electronics Engineer, GS-9 or GS-11, Hawaii.
Recreation Specialist, GS-9, Viet-Nam.

File applications for above with Nav Overseas Employment Office (Pacific), Fed eral Office Building, 50 Fulton Street, Sa

Master Mechanic (Power Plant), Guar

Standard Form 57 must be filed with the Consolidated Industrial Relations Office, Box cated at 85 King Ave. (north of Station Restaurant.

'DESERT PHILOSOPHER'

Sliding Rocks Myth Target



Sorry folks . . . I must puncture another myth. My obsession for facts, you know. But facts and realities are more interesting than myths and fables.

This time it has to do with the so-called "mysterious phenomena" of the moving stones in the area known as Death

From time to time we read a lot of stuff in a magazine or newspaper article about this "mystery or puzzle, which hasn't been completely solved to the satisfaction of scientists." Phooey! There is no mystery about it — and it's no more a phenom-

enon than air in motion or wind is a phenomenon. ROCKS ARE MOVED BY THE WIND

Dr. Pierre St. Amand, Head of Earth and Planetary Science Division of the Research Department of China Lake-NOTS says that these rocks in Death Valley are moved by the wind.

Probably a 40-knot wind will move them fast enough to be observed in motion, and sometimes the wind blows much

The conditions must be right. That is - a light rain will make the surface of the playa or dry lake slick. A heavy or prolonged rain would cause the rocks to be stuck

the mud — so no movement at that time. If it rains and freezes on the surface — which sometimes happens in the higher areas of Death Valley, - with water under the ice and mud under that - then the rock cruising

conditions are perfect - when the wind blows. TRAILS FORM UNIQUE PATTERNS

The wind breaks up the ice surface — and the rocks skid

If two adjacent rocks are stuck in the same ice sheet and one rock is much bigger than the other - then they skid alone in curves - forming some odd, fantastic, grotesque, eccentric skid marks in their wake. If the wind changes direction - which is not unsual -

then the same rocks might cross over their previous skid marks.

Dr. St. Amand states that Bob Skelton, a competent geologist, of Pomona, Calif., flew over to Death Valley in his light monoplane, for the purpose of demonstrating the facts of

LANDED PLANE NEAR ROCKS

The surface of the playa was dry - so no problem of landing his plane, near the rocks.

Skelton then taxied over to a sizable rock.

He brought with him several 5-gallon cans of water — to make the test - poured the water around and in front of the rock, so the surface was slick.

He turned his plane around so the rock would be in the prop wash - and the rock skidded several feet.

Unitarians Move To Chapel Annex

Competitive exam.

Application Card Form CSC 5000-AB and this week from the old Parish and 8, on the corner of Laurit-

Meeting place for the Unita- | Sunday school classes will rian Fellowship is being changed meet in old dormitories No. 7



FACE-LIFTING for new club house was performed by members of Catholic Youth Organization. Youth membership completed

exterior and interior painting in single day, with guidance and assistance of parents. New location for CYO is Bishop Hut on McIntire.

BOWLING -

By Dick Zinke

Premier 865 Scratch This week, the big noise for consistent scoring was executed by Bob Kochman delivering a grand 644 series with games of 226, 235 and 183. Carl Valdez rolled high game for the night with his big 244. High team game went to the Mercury Movers with a 937, while the Station Restaurant pitching all the way took high series with a

Monday Women's Scratch

The Unbelievables remain in first place while the Tigerettes and Unpredictables are tied for second with two games out. Co's Crew had a fine night of bowling after sending the team to the out house, took high team game and series with a 670 and an 1828. Neola Smiley is making her move in the league and captured game and series for the night with her 214 game and 498 series.

Midway League

Dan Ryan led the Chillers in a big night of bowling with his series of 590, while his team rolled high game of 908 and a Oct. 20. This event is scheduled ting average during his rookie the hours will be from 10 a.m. 2594 series. High individual for Saturday, Oct. 24, from 7:30 year, Ted Williams or Stan Mu- to 6 p.m. game was bowled by Bill Esch p.m. to 12:30 a.m. of the Pincrackers with a 218.

Mixed Foursome

lard Trailer Sales in first place \$3 each for all persons over world's heavyweight crown? by setting high series in the three years of age. for high team game. Congratul- tions. ations to Carol Plante, who broke the 200 barrier with her 54 Servicemen Named 206 game and Alice Cutsinger

Women's Handicap

Bonnies had high team series will represent the United States of 2659 assisted by teammate, in the 1964 Olympic Games ars; (m) Sun Devils. Pat Alexander's high game of when the two-week competition '4-E1 '1-T1 'w-11 '1-01 '4-6 '9-8 'E-Z 190. Jeanne Krausman rolled begins Oct. 11. the high series of 502. Not to be This year's showing of mem-

took high series with a 435. ternates.

A Sports Editorial

Genius Versus Knucklehead

There is an adage that dates back to the earliest days of recorded history: That a prophet is without honor in his own

Sports columnist Bill Borgstadt probably agrees whole-On Sept. 14, when the Phillies were riding high—six games

in the lead over their National League rivals-Bill turned in a column in which he said the St. Louis Cardinals would win the

Bill predicted that the second division teams would decimate the Phillie lead, and that's the way it turned out.

Meanwhile, back at the Rocketeer, it was a heavy news week; sports space was "tight." Golf tournaments, bowling and basketball stories were breaking out all over on the local front. Bill's prophetic predictions got chopped off short in the scramble, and the best sports prognostication of the year didn't

Since that fateful publication date, the editor's conscience kept gnawing at him, until last week, when the Card's clinched the pennant-he donned sackcloth and ashes, flogged himself soundly, and proclaimed to the world at large: Borgstadt is a genius, and I am a knucklehead."

Disneyland 'Navy Night' Ticket Sale Nears End

Deadline date for tickets to "Navy Night at Disneyland" is

Tickets are available at the Community Center for Navy Tom Zurn helped keep Bal- Personnel and their guests at

The Jay Bee's came in to take Forces are in Tokyo as part of Wave; (i) Sooners; (j) Commo-

ed 24 splits Wednesday night. bers of the Affice Forces on the men's team compares fav- 7561 'uossətted phold '7 Women' Afternoon Trio orably with the showing of serv-Team three had no competilicemen in 1960, when 61 qualition and had high game with fied. Waiting in the wings if 114 pue same 011 u! pakeld 605 and a 1671 series, but indisome of the principals become peison uets aleek saeak vidual honors were shared by ill or injured are more armed and 16661 ui same 641 ui Sharri LaPierre bowling high forces competitors who have game of 188 while Estela Paine been named Olympic team al. 228. betted smeilliw bel. I

get into the paper.

SPORTS

2. Who was the first Olympic boxing champion to win the

3. Match these college football league with a nice 607. Ray These special tickets will not teams with their nicknames: (1) Schreiber posted high game in be available at Disneyland. They Arkansas; (2) Tulane; (3) Purthe league with his 245 and con- must be purchased in advance. due; (4) Minnesota; (5) Vandertributed to the Keglespeilers ta- Tickets entitle the bearer to bilt; (6) Rice; (7) Princeton; (8) king high team series with 1933. unlimited free use of Disney- Michigan; (9) Penn State; (10) The Lo Balls turned out a 707 land's 40-plus rides and attrac- Oklahoma; (11) Arizona State; (12) Houston: (13) Miami of

rolling out another high series To U.S. Olympic Team (c) Boilermakers; (d) Golden

(a) Tigers; (b) Wolverines; Washington (AFPS) - Fifty- Gophers; (e) Owls; (f) Nittany four members of the Armed Lions; (g) Razorbacks; (h) Green high team game of 941 while the 290-member men's team that dores; (k) Redskins; (l) Coug-

3. 1-9, 2-h, 3-c, 4-d, 5-i, 6-e, sneezed at, these gals convert- bers of the Armed Forces on duedo the sheet of the Armed Forces on duedo the sheet of the

> SUN FLOWER GIRL-Marlene Spivey rations the Ne-Answers to Quiz

vada sun as it pours through night spots.

Lifesaving Course **Begins October 13**

A Red Cross Senior Lifesaving course will be held at the Station Pool every Tuesday and Thursday from 7 to 9 p.m., beginning Oct. 13.

The course, open to all qualified persons over 16, will last for a total of 17 hours, with those who sign up having until Nov. 19 to complete the required amount of time.

Doug Lind will be instructor for this course, according to Marie Newman, water safety chair man for the local Red Cross

Persons wishing more information may contact Mrs. Newman at Ext. 723132.

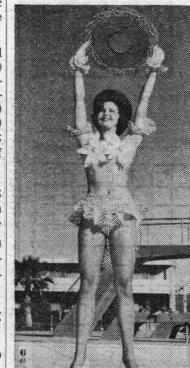
COM Pool Open Through Oct. 18

The Commissioned Officers Mess swimming pool will remain open through Oct. 18, it was announced this week.

Swimming hours on week

days will be from 11 a.m. to

2 p.m. and from 4 to 6 p.m. 1. Who had the higher bat- On Saturdays and Sundays,



Tennis, Ladies?

An invitation was extended this week to women tennis players to enter the China Lake Tennis Club's fall tennis tournament to be held during the weekends of Oct. 31-Nov. 1 and Nov. 7-8.

Women's singles and doubles tournaments will be held if enough of the "fairer sex" sign up, Gerry Whitnack stated.

Those interested in entering may call Gerry Whitnack at Extensions 71747 and 723172 or Cdr. Stan Able at Ext. 8464.

Champ Kegler Adie Fix To Visit Local Alleys

Station keglers are invited to meet champion bowler Adie Fix from Lancaster's Sands Bowl when he makes a guest appearance here at the China Lake her hat. Marlene is a show- Bowl at 8 p.m. next Thursday girl at one of the Las Vegas | night, local bowl manager Fred Dalpiaz announced this week.