

PRODUCTION SHOT - Blandy Ave. is setting for scene starring Clint Degn and Sue Hardy in the "Twenty-Fifth Hour." Presentations Division's production crew Everett Baker, Claire Grounds, David Bielawski, Aladar Klein, prepare for re-take. Film debuts at Station Theatre Tuesday eve.

(Continued from Page 1)

NOTS Film Story **Tuesday Evening**

"THE CADDY" (96 Min.) Dean Martin, Jerry Lewis

Mature Children.

"Shorts: "A Friend in Tweed" (7 Min.) "Best in Show" (10 Min.)

--MATINEE--"ERIK, THE CONQUEROR" (82 Min.) Cameron Mitchell

Shorts: "High Divin' Hare" (7 Min.) "Cody of the Pony Express" (16 Min.) --EVENING--

"TOMB OF LIGEIA" (88 Min.) Vincent Price, Elizabeth Shepherd

(Horror in Color) Edgar Allan Poe's cre-e epy story of a man's dual personality, fluenced by his dead wife's lasting curse

Shorts: "It's Nice To Have A Mouse Around The House" (7 Min.) "A Report From San Juan" (18 Min.)

SUNDAY-MONDAY

MARCH 21-22 from 9 p.m. to 1 a.m. each night. day. "CRACK IN THE WORLD" (96 Min.)

Dana Andrews, Keiron Moore

(Science-Fiction in Color) So realistic, you'll chudder! A land-based "project Mohole" cre ates a chain reaction fissure crack that defies perb and fast-paced thriller. One of the best. (Adults, Youth.)

Short: "Trout Stream" (10 Min.)

"SEND ME NO FLOWERS" (100 Min.) Doris Day, Rock Hudson 7 p.m.

(Comedy in Color) Laugh away as hyp chandriac Rock believes his days are limited and his buddies sorrowfully arrange hi final affairs, including picking out a new mate for his widow-to-be, Doris. Bright and funny every minute! (Adult.)

Short: "Twenty-Fifth Hour" (27 Min.) TUESDAY ONLY

Story of a young engineer and his wife who come to work and live at NOTS. Made et NOTS, about NOTS, for NOTS. Short: "Sky-Napper" (7 Min.) WEDNESDAY ONLY

MARCH 25-26 WHURSDAY-FRIDAY "FATE IS THE HUNTER"

Glenn Ford, Suzanne Pleshette 7 p.m.

(Drama) Interesting insight to an airli Glenn, methodically reconstructs every face of the flight. Flashback sequence include: song by Jane Russell. Uniquely different Film. (Adults, Yorth, Mature Children.) Short: "Heaven Scent"

What the man who has everything needs is help with the

Game Nets \$144

John and Jeannine Spessard of Trona were the overall winners in the National Charity Bridge Game held last Friday at the Community Center.

for charitable purposes.

wife, Ethel, of China Lake, were second in the competition, followed closely by Charles and Doris Dye. Fourth and fifth place were shared by the teams of Joe Tremont-Betty Doig and Richard Hull and Terry Zwerski claimed sixth place.

Winners of the North-South Section A game were Bob Driggs and Scotty MacLaughlin; June Martin and Borghild Ellington were second; Tom Hagar and Mary Higgins, third, and Lillian Fojt and Milton Neufeld, AOA Post Holds

note to the NOTS film when its was captured by Esther and star players, Clint Degn and Robert Rountree, and fourth MARCH 20 Sue Hardy, make it for real by Bill Yetter and Bob Sulli- 6:30 p.m. to 7:30 p.m. at the with marriage ceremonies on van.

Acey-Deucey Dance Friday and Saturday

Ron Newman, one of the "My Fair Lady" will conclude berg was a member. country's outstanding guitar tonight in the former Masonic leads, will bring his popular building, 317 Inyokern Road at AOA vice president and proversatile Hustlers Dance Band 7 p.m.

Schaus, bass guitar, Jim Cribbs, singing, dancing or playing a

Answer to Previous Puzzle

CROSSWORD PUZZLE

plate -21-Delineated 22-Affirmative

weight
17-Ripped
18-Gratuity
20-Long and
slender
23-Shallow

person is rated 81-One who

saves 83-Protective

saves
saves
shield
s5-Heavy blow
(colloq.)
36-Lawmakep
39-Mephistopheles
42-Preposition
43-Kind of wool
45-Tissue
46-Distant
48-Grates
50-Edge
51-Border on
53-Server
55-Compass
point
66-Slumbers
59-Makes
amends
61-Slaves
62-Temporary
shelter (pl.)

DOWN

1. Favorite

2-Conjunc

3-Place

40-Places in line 54-More distant (poet.)
41-Titles (poet.)
44-European herring letter 58-Steamship (abbr.)
49-Satiate 52-Number 60-Symbol for niton 47-Regrets 812131585 DV VV V

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14	A	2	₩	12	A	5	P	5	₩	他	1	M	
A	B	U	52		₩	53	R	A	54/		55)	E	
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	61	S	N	E	6		62	E	N	T	5		
PROFE	Dis	tr. k	y U	nited	Fee	ture	Syn	dicat	e, In	10.	25		

For Use In Authorized Service Newspapers Only.

National Bridge For Charities

Seventy-two players participaed in the annual benefit games here, resulting in \$144 being added to contributions for the national headquarters of ACBL

Dr. Martin Kaufman and his

The film was produced as a visual aid supplement for memsition found Frank Lint and Dinner Meeting bers of the Station's technical departments who talk each year departments who talk each year second, with Charles and Joan Thursday Evening to student groups at West Coast Lines a close third. Fourth universities on work and recreplace was won by the team of Lucille Young and June Brown.

Wedding bells will add a foot- In the NS group, third place

To Close Auditions For 'My Fair Lady'

rat expedition of which Silber-

gram chairman, Ray Reed and to the Acey-Deucey for a two The Community Light Opera Carl Hamel were appointed to night stand this Friday and Sat- and Theatre Association, pro- serve as program coordinators ducer of the musical, announced for the association's quarterly The group composed of Dave that any member of the com- field trips and monthly meet-Wilkie, rhythm guitar, Jim munity interested in acting, ings. piano and vocals, Gary Olinger, musical instrument is invited. scheduled for the third Thursdrums, and Newman will play Rehearsals will begin next Tues- day of each month, with a

AOA dinner meetings are DR. W. L. MASTERSON, assoluncheon on the first Tuesday. AOA members will tour the Los Angeles plant of the Norris, Thermador Corp., Products Division, March 30, and see ordnance hardware in production some of which relates directly to the NOTS efort, Ellington said.

The China Lake Post of the

will hold its first dinner meet-

series Thursday, March 25,

Commissioned Officers Mess.

"Project 63," an account of the

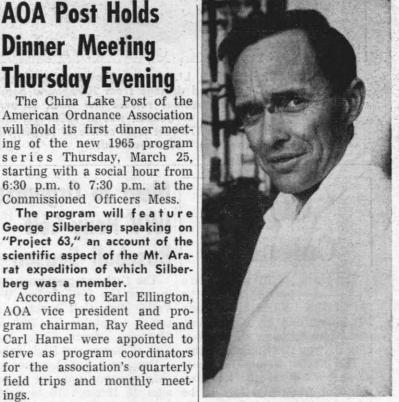
According to Earl Ellington,

Reservations for AOA members, their wives, and guests for the March 25 dinner meeting 'Thieves Carnival' should be made by calling Ext. of \$3.50 per ticket to the post president, Capt. Ronald Jensen, USAF, 2036 Michelson Lab.

Memorial Society To

The Kern Memorial Society features "open staging" with will hold its annual meeting at the audience on two sides of the 7:30 p.m. on Thursday, March stage. The staging permits only 25, in Room "D" of the Com- 150 seats, so tickets should be munity Center.

port by the Society's president tickets are \$1.25 for adults and Richard Carlisle, introduction of 75 cents for students. They new directors, and showing of may be purchased at The Gift the CBS film, "The Great Mart in Ridgecrest or at the American Funeral."



CERAMIC WINNERS - Lillian Fojt and Ginger Hinton dis-

play handiwork which won them first place honors in the

16th Ceramic Show held at Long Beach. Ladies were spon-

sored by Dobbies' Ceramics Studies of China Lake.

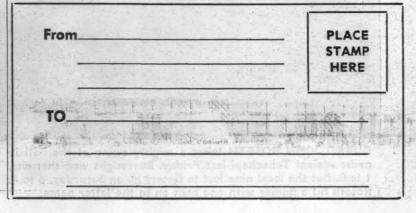
chemistry at University of Connecticut, is at China Lake on sabbatical leave. Assigned locally with Research Department, Chemistry Division, he is currently engaged in basic

Two More Perfs For

"Thieves Carnival," the modern French farce about three small-time swindlers who attempt to move into high society, will be presented again tomorrow night and next Friday.

The production by the Desert Division of Bakersfield College, Meet Thursday Evening which opened last weekend. bought in advance.

Agenda includes annual re- Curtain time is 8:30 p.m., and door at Burroughs auditorium.



NOTS Researchers Reveal Findings in Porpoise Study

Dr. McLean On TV Tomorrow,

Tells Porpoise Study Progress

gram tomorrow evening at 7 p.m. via Channel 4.

He is appearing in conjunc-

tion with the premiere of "The

Dolphins That Joined the Navy,"

a news documentary film pro-

During a studio interview with

announcer Bob Wright, Dr. Mc-

Lean explains the Navy's pur-

poses in conducting porpoise

studies and its achievements

since the program was begun,

The color film portion of the

program was shot at the Marine

Biology Facility, under the di-

rection of Otto Lang last year.

conducted by the Station under

Dr. Rene Engel. Tom Lang, as-

sociated with NOTS Pasadena,

Hydrodynamics Group, is one of

those credited with much of the

data gained through the years

"J" Bibby, Public Information

Officer here and NOTS liaison

said the movie is now under the

supervision of the Navy Chief

to every Naval Reserve Public

on porpoise characteristics.

Original porpoise studies were

duced by the Station.



Vol. XX, No. 11

NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA

DR. WM. B. McLEAN

'65 Summer Work

Same as in 1964

Is there a hydrodynamic valie in the porpoise that may someday be applied to manmade designs?

Hydrodynamics,

Physiology Area

Are in Program

ducted in both directions?

How can man effectively com-

municate with a porpoise . . .

and can this "language" be con-

Can man and the porpoise

The answers to these questions and more were revealed by the Navy this week in its first public disclosure of studies being made at the Marine Bipear as featured guest on the "Survey '65", NBC television proology Facility at Pt. Mugu.

The joint NOTS-Pt. Mugu program is broken down into four major areas of investigation, with five NOTS scientific personnel engaged in producing

Working under the direction of Dr. Wm. B. McLean, NOTS Technical Director, the program's aims are:

1. Find out the degree of or limits of communication from porpoise-to-porpoise and manto-porpoise. 2. Study range of sounds

emitted and the degree to which they can be shaped to resemble man-made sounds 3. Work out man-animal team

operations similar to those accomplished with dogs.

4. Hydrodynamic studies: how fast can a porpoise swim? And, is there anything occurring that would shed light on designs?

In its initial demonstration Thursday for southland newsmen, officials conducted demonstrations in porpoise pools at the facility and in the lagoon that adjoins it.

'Echo Locating'

One of those engaged in the studies, Dr. C. Scott Johnson, explained his work in areas related to "Echo Locating" or sonar ability of the porpoise.

Using the Atlantic, bottleployment in federal agencies the former research associate at this year will be about the same | Chicago's Enrico Fermi Institute as last year's, according to the of "Salty," one of the experi-Civil Service Commission. mental animals in captivity.

Summer employment is any Using fish as a reward for temporary work starting (en- accomplishment, "Salty" retrance on duty) between May 1 trieved a series of articles, each composed of different qualities and shapes, on command. Rub-As was the case last year, ber suction cups were placed agencies will be barred from over its eyes, in each instance, hiring for summer jobs the sons to demonstrate the use of the and daughters of their own ci- animal's sonar system in idenvilian employees or uniformed- tification and retrieval of the service members. This year the article.

prohibition will not apply if the | A physicist, Johnson has deson or daughter is eligible for signed and developed an elecplacement help under the Com- tronic programmer used in conmission's Separated Career Em- junction with his investigations.

ployee Program. It also will not Data is transcribed as "Salty" apply where agencies must performs his mission. The exmeet emergency work situations acting results render a cumusuch as in fires, floods, earth- lative and consistent pattern of information—all contributing to The prohibition will apply the store of knowledge essenthroughout each agency regard- tial to the development of apless of where the parent is em- plied values.

ployed or where the son or May Transmit Intelligence Another investigation condaughter seeks employment in the United States, but under cerns transfer of information CSC's Rules, Departments of the between porpoises.

Army, Navy, and Air Force will One investigator believes that be considered separate agencies. porpoises, unlike other animals, Moreover, the prohibition will may transmit intelligence beapply without regard to the age | tween each other related to sigof the children and whether they | nificant environmental elements. are part of the parent's house- Two porpoises are undergoing

(Continued on Page 4)



briefed by H. G. Wilson, Assoc. Technical Director, and Dr. Gil Plain on Department projects, as he took over duties Monday. Dr. Hunter was head of Code 45 from 1956 to 1959.

'The Twenty-fifth Hour'

Film Story About NOTS Dolphins That Joined the Navy,' At Station Theatre Tues.

tunity to see a film made at NOTS, about NOTS, for NOTS. Titled Naval Districts for showings Rules About The Next Tuesday evening Station movie goers will have an oppor- Information Officer and to all "The Twenty-Fifith Hour," it is the story of a young engineer through the nation

wrestling with the problem of whether he made the right decision in coming to China Lake as a junior professional elec-

played by Clint Degn. His attractive wife, Wendy, is played by Sue Hardy. The young engineer's boss, Jack Logan, is played by David Bielawski, known to local theater goers for his fine work in the Bakersfield College productions of "Oklahoma" and "Death of a Salesman."

In addition, local movie goers will recognize many China Lake people who appear in the supporting cast.

The entire picture was photographed here at China Lake by the Presentations Division of the Technical Information Department. Producer-Director of the film

was Everett Baker. Clare Grounds of the TID Documentary Film Branch handled the photography. Support assistance for the film was by Bill Morrison's F.

M. Productions of Hollywood. The script was written by Barry Shipman based upon a treatment by Frederick Beelby. Eugene Horstmann handled the lighting, Aladar Klein not only edited the picture but

dubbed the music and sound (Continued on Page 8)

NAF Drill Team Wins Bill Newman, the engineer, is Orange Show 1st Place



NAF'S DRILL TEAM leader Preston L. Beebe, AT1, is congratulated by skipper, Capt. Robert R. Yount, as Beebe shows him the first-place trophy the drill team won last Sunday at the National Orange Show's Armed Forces parade at San Bernardino. Eighteen drill teams took part in the parade, the largest in the show's history.

CHAPLAIN'S MESSAGE

The Pause That Refreshes



By CHAPLAIN MARK E. FITE

The title is a slogan of the Coca Cola Company. It is seen and recognized almost universally as the invitation to try a drink that may be satisfying and worthwhile.

We cannot deny that a pause in the rush of routine daily life is valuable in so many ways. Coffee breaks have become the rule. The tempo of life, the noise, the news, and the program often does take its toll on our effectiveness by dulling our senses to what is of prime importance.

Moments of calm reflection are needed. Time to think of why we are here; why we do what we are doing; what we are and what we hope to become. These moments may come at unique times in the day. They may be while engaged in certainjobs of work; on travel to and from work, or anywhere in your particular schedule. But you do have such moments, and they

I suggest a pause that refreshes, for in that moment of reflection; many things that are heretofore undiscovered in your potential may be revealed.

placed at the curbs.

"Be still and know that I am God." (Psalm 46:10).

Episcopal Bishop 'Cleanup for Easter Starts Next Week To Preach At All Faith Chapel | for Easter" campaign on Station | starts | next | Monday. Trash

Bishop of the Episcopal Diocese Wherry Housing, every day next File applications with Janet Thomas, Bldg. of San Joaquin, will be the week, picking up junk and trash 34, Rm. 26, Phone 71577. Deadline for filguest minister at the 11 a.m. residents have gathered and ing is March 26. Protestant Services at the All Faith Chapel this Sunday.

The noted churchman is in a four-week long campaign Reporter, GS-8, Okinowa; Electrican (Power Plant), Guam; Civil Engineer, GS-11, Archihis 22nd year as Bishop of San sponsored by the China Lake tect, GS-12, Thoiland. Joaquin. Under his leadership Community Council and the Oathe diocese has doubled in size. sis Garden Club.

Bishop Walters is past president of the Pacific Province of the Episcopal Church and currently president of the board of trustees of the Church Divinity School of the Pacific, the seminary that serves the west coast.

A reception hosted by the ladies of the Protestant Congregation and St. Michael's Parish will honor the Bishop following the 11 a.m. services.

Engineers' Meeting Set For Wednesday Eve

The Desert Empire Chapter of the California Society of Professional Engineers will meet at 6 p.m. Wednesday at the Hide-

Featured speaker will be Glenn R. Birdsell, field engineer for the Endevco Corpora-

He will speak on the theory and application of charge amplifiers and show a film on accelerometer calibration.

PROMOTIONAL OPPORTUNITIES

o-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies. Physicist (Electronics) or Slectronics Engi rumentation), GS-9, 11, or 12, Code

Physical Science Technician (Chemistry o General), GS-5 (two positions), Code 4539. File applications with Betty Fowler, Bldg. 34, Rm. 26, Phone 71648.

Stockman, \$2.79 to \$3.03 per hour, Code ntains stock records on various cla

of one year progressively responsible experi nice in storage and warehousing operations File applications with Pat Dettling, Bldg. 34, Rm. 28, Phone 72218.

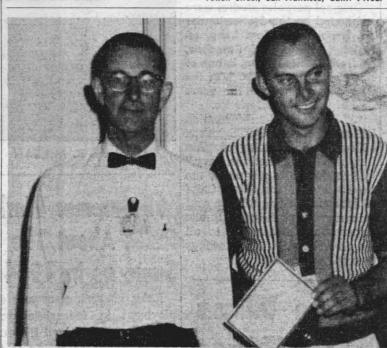
Clerk (DMT) or Clerk-Typist, GS-3 or GS-4, ical capacity to the Branch performing ro , memoranda, plus maintaining the File applications for above with Joan Lines, Bldg. 34, Rm. 34, Phone 71514.

Editorial Clerk (General Typing), GS-5 or 6 Code 3566. File applications with Mary Morrison, Bldg.

34, Rm. 32, Phone 72032. Technical Writer-Editor, GS-1083-9 or 11 (2 vacancies), Code 7511—Position is located in Editorial Branch, Publishing Division, T.I.D. Voucher Examiner, GS-540-3, Code 1753-Don't forget! The "Clean-up Position is located in Public Voucher Central Staff. Duties involve response for Easter" campaign on Station for the examination and computation of pubexamining work of a higher level that trucks from the Public Works that The Rt. Rev. Sumner Walters, Dept. will tour the first area, and incidental typing tasks done in conjunction with the basic examining.

> NAVY OVERSEAS VACANCIES Mechanical/Marine Engineer, GS-5, 7, 9 & 11, Electronic Engineer, GS-5, 7, 9, 11, 12, This will be the first week of

> > Overseas Employment Office(Pacific), 50 Fulton Street, San Francisco, Calif. 94102.



WISE OWL AWARD was presented to Ernest E. Lamson, Jr., (right) by Dr. Newt Ward, head of AOD. Lamson was wearing rut. He was thrown forward against the defroster vents, and although the glasses were nearly shattered, his eyes were

GENERAL MESS

D—Clam chowder, sea food platter, milan-aise rice, spinach, tomatoes, sandwich bar links, blueberry hot cakes, syrup, apple

salads, brownies. SATURDAY, MARCH 20

B-Fruit, cereal, juice, fried eggs, breakfast bage, salads, prune cake. steaks, waffles, syrup. 1000 Add: Frankferters, pork and beans,

strawberry shortcake, whipped cream,

SUNDAY, MARCH 21 B-Fruit, cereal, juice, fried eggs, ham slices, pizza, squash, salads, French bread, mo- ing around 8 p.m. Both the so-1000 Add: Barbecued beef, fried potatoes, carrots, salads, ice cream.

1000 Omit: Ham slices, waffles, syrup. B-Fruit, cereal, fried eggs, corned beef has S-Roast beef, mashed potatoes, gravy, green togst beer, mostled points, see ish tea rings.

Deans, salads, pineapple pudding, ice D-French onion soup, grilled pork steaks.

MONDAY, MARCH 22 B-Fruit, cereal, fried eggs, crisp bacon,

fried patatoes, mushroom sauce, peas, sandwich bar No. 4, salads, pineapple

chiffon pie. ,
S-Meat laaf, potatoes, gravy, carrots, salB-Fruit, cereal, fried eggs, Icncheon meat
French toast, syrup, cake doughnuts.

coffee cake.

WEDNESDAY, MARCH 24 B-Fruit, cereal, fried eggs, minced beef, potatoes, French toast, syrup, iced crul-

lasses cookies, ice cream.

THURSDAY, MARCH 25 hard boiled eggs, hot cakes, syrup, Swed- lic.

potatoes, tomato gravy, cauliflower, ca rots, sandwich bar No. 3, salads, peans French toast, syrup, raised doughnuts.

D-Mulligatawny soup, grilled steak, French beets, salads, peach shortcake, whipper beets, salads, peach shortcake, peach shortcake, whipper beets, salads, peach shortcake, peach shor beets, salads, peach shortcake, whipped

Conservation Talk At Center, Not Museum

Ardis M. Walker's talk, "Conservation: A Home-Front Crisis,' co-sponsored by the Maturango S-Baked hamburger pie, French fried pota- D-Cream of chicken soup, fried chicken, po- Museum and the China Lake tatoes, gravy, corn, sausage dressing, sandwich bar No. 1, salads, lemon coco-March 23, will be presented in nut cake.

S-Barbecued beef tips, noodles, spinach, cabite Community Center auditorium, not in the Weapons Display Center as previously announced.

Walker's appearance, sched-S-Veal chops, duchess potatoes, gravy, corn, D-Vegetable soup, roast beef, roast pota- uled for 8:30 p.m., will follow toes, gravy, lima beans, sandwich bar the regular AAUW meeting and S-Spaghetti, meat sauce, mixed vegetables, a subsequent coffee break startcial half-hour and the address are free and open to the pub-

> Aetna Agent To Be Here Thursday, Friday

News Stories Tues., 4:30 p.m.
Photographs Tues., 11:30 a.m. Howard Keenan, Aetna Insur-ance representative, will be at Service moterial. All are official U.S. Navy the Community Center on Thursday and Friday, March 25-26, from 9 a.m. to 4:30 p.m.

'DESERT PHILOSOPHER'

Springin' One On the Flowers

By "POP" LOFINCK

Let's talk about the weather. Everybody does.

Be happy about the recent spring rains that added up to

There is always more moisture, rain and snow in the north area of NOTS than in the China Lake housing area. Fall rains and snow are more productive of vegetation in the desert than spring rains. In fact spring rains are not very effective without the previous fall rains. (Like winter wheat of the midwest).

The seeds are scattered in the fall — rains start the seeds germinating - winter comes and the seeds go dormant. Moderate spring rains will then bring out the vegetation.

TWO SPRINGTIMES IN THIS AREA

Last September, October and November the rains added up to about 31/2 inches in the China Lake area. There are usually two spring times in this Mojave Desert. The first comes about now — a few warm days will bring out the flowers — certain kinds will bloom profusely. Then winter returns for a period the early flowers die.

Then comes the second springtime and different latepoming varieties of flowers are in profusion.

If the first spring time period were delayed and merged into the second spring period without a cold break in between and the early and late flowers all bloomed at the same time, that would be something!

I suppose that is possible but not probable because the germinating time of plants depends on an inhibitor in the hard shell of the seed or the chemistry of the bulb.

FOOL 'EM WITH A REFRIGERATOR

The late blooming varieties require a longer freezing period to break the inhibitor. But the late germinating plants can be fooled — if the seeds are scratched and placed in a dark cold refrigerator — they start germinating right away — I am

Tomorrow is officially the first day of spring. But don't be too expectant - I've seen it snow on Easter on the North Range

The flower most sought after for photographers is the Mariposa Lily — genus Calochortus. Other common names it goes by are Star Tulip and Butterfly Tulip. There are 35 species in California; about a dozen species within a 50-mile radius of China Lake - ranging in color from vermillion red to almost white from lavender to deep yellow.

Transparencies of these lilies are negotiable. People trade them for colors they don't have. Sort of a collector's item. Like collecting butterflies. The different varieties have different blooming periods ranging from March to July.

WHERE TO FIND DEEP VERMILLION TYPE

One favorite is a deep vermillion growing between 5000 and 6000 feet elevation from the top of Mt. Springs Canyon to the slope down into Junction Valley-or Echeron Valley on the map. Blooming time from April to June or maybe July.

There are several late blooming varieties of various colors on the way to Coso Peak — one pale pink that's easy to trade.

To get the best pictures go out in the early morning. The lowers are wide open. As soon as they get enough sunshine they close up. On an overcast day you might get good pictures

LCDR. Shults Wins Elks Club Honor

LCDR. Lewis B. Shults, CO. Americanism plaque was Don

Capt. John I. Hardy, USN

"J." Bibby

Jack G. Broward Editorial Advisor

Richard Grueneberg

Budd Gott Stoff Writer

Frederick L. Richards

Special Assignments

Staff Photographers

Ralph Robey, PH2 (Pasadena). DEADLINES:

is Smith, PH3; Seth Rossman, PH3, and

ms, PH1; Paul Seaton, AC2PH;

NOTS Enlisted Personnel, was Yockey, Editor of the Valley Inpresented an engraved Ameri- dependent. Scrolls were awardcanism plaque at the Elk's Gold ed to the Ridgecrest Police Star Awards Banquet on March Department, Chief George Wha-6, honoring China Lake and ley accepting, and to Deputy Ridgecrest citizens for their Sheriff Don Glennon, for outstanding work with the youth of

Another recipient of the the community.

The Rocketeer Official Weekly Publication of the U. S. Naval Ordnance Test Station

> Christian Science (Chapel Annex)-Morning Service—11 a.m. 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 opposite Station Restaura

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. Saturday, Thursday before First Friday,

NOTS Jewish Services (East Wing All Faith Chapel)-8 p.m. every first and third Sabbath School, 10 a.m. to nean, every

Unitarian Fellowship (Chapel Annex, 85 King Fellowship Meeting—Sundays, 7:30 p.m. Sunday School—10:45-11:45 a.m. Dorms 7 and 6:





AERIAL SHARPSHOOTER, Lt. Lloyd C. Showman, VX-5, surveys target on C-range and damage from 2000-pound bomb he dropped in over-the-shoulder release last week as part of demonstration. Release of weapon was at 6000 feet and 500 knots, landing within 175 feet from center of target. Hit was called one of the "best" ever recorded!

COM Calender

Friday, March 19, 1965

it will be a delight for your Wells Valley may participate.

urday. Drop by after your golf

on Tuesday thru Friday even- both Leagues.

Cosmetics: A woman's means of keeping men from reading contact H. E. Byrd, last year's of 1989. between the lines.

Meet to Organize

Night and appearing will be the ing for the 1965 Indian Wells er Freitag 564 (S) and 674 (H); work and mine has increased Band featuring his lovely sing- son is scheduled for 7:30 p.m. (H). er-dancer. So come on to your Thursday, March 25 in Room club . . . you can't miss this one. F02 at Burroughs High School.

together with other interested adults are encouraged to at-HAVE YOU HEARD BEE tend. Approximately 50 adults BUTLER AT THE ORGAN? Just will be necessary for the vari-

your favorite tune—Pat Shannon attend the meeting, but are de- Bob Lockwood bowled a 1342 for the fall semester may be and 72951 on the Station.

IWV Pony-Colt Baseball Season Tomorrow night is Dance The first organizational meet-

The Easter Bunny is busily Pony and Colt Leagues pro- 1308 (H); R. Yarbough and Rob- NOTS since Feb. 1. preparing a most tempting vide an opportunity for all boys, ert Pruett (1010 (S) and 1272 menu of traditional fare to be ages 13 through 16 to partici(H); John Trigg and Andy BodSharon will attend Bakersfield scores in the roll-off is as folserved at your club from noon for two months following conner 1143 (S) and 1243 (H); Rich-Junior College for two years and 'til 6 p.m. on Easter Sunday. So clusion of the school term. All ard Graham and Bill Higbie then she will continue her eduplan to make reservations . . . eligible youths in the Indian 1097 (S) and 1243 (H).

The bar opens at noon on Sat- ticipating play in either League Donohue 602, 472 and 596 for Fabulous!!! You can hear her ous jobs incident to operating can be broken. Singles — In

> ations in any capacity, please 1961 Don Mumford shot a total hours of 8 a.m. and noon at Mi-Naval Training Center, Brainpresident, at extensions 71613



BURRO JOHN ROSETH takes a mighty swing at the ball in game against Tehachapi last Friday. Burroughs won that one, 1 to 0. But the local nine lost to Desert Hi on Saturday, 6 to 4. Roseth hit a homer with one man on in the latter game.

BOWLING

By Dick Zinke

865 Scratch Fred Dalpiaz clouted a classy 244 game in Monday night's action and added games of 194 and 214 for a big 652 series. The Desert Playhouse still leads the field by 41/2 games and gave no ground by pounding out games of 997, 925 and 930 for a 2852 series. Bill Mitchell and Bob Hooper also came through

with a fine 232 a piece. Midway

Harry Myers went on a pin spilling spree and fired a grand 256 game and ended the night's play amassing a 607. Mention must also be made of John Ito's 236 and Ed Dubravsky's 226, Al Ferris' 215 and 209 for a fine 601 and Bill Johnson coming in with a 207 and a 209 for a 587 series. There was a total of 15 games of 200 or better rolled.

Women's Handicap

Charlotte DeMarco out shot the rest of the gals and took individual honors by rolling a booming scratch 234 game for a 528 series. Team honors went to the Jets with a 954 game and a 2741 series. Other good scores perience Program student in the posted were by Mary Andreasen bowling 210 and Bettie Hardy shot 200 for a 500 se-

City Tournament

Scores in the single and double events ran generally high after the first week of bowling and the squads scheduled for Saturday and Sunday will have some good scores to shoot at.

The leaders in each event at Singles: John Padgett 611

fantabulous Winstrup Olesen Valley Pony-Colt baseball sea- Ed Donohue 596 (S) and 672

All Events: Carl Ogden 556, Obispo, where she will major in The parents of all youths an- 526, 565 for a 1947; and Ed English.

squads and lets see if these As- Planning three weeks ago. sociation Tournament records 1961 Don Mumford bowled a UCLA REFUND CHECKS ings. She would love to play If for any reason you cannot 773. Doubles — Bob Green and UCLA student refund checks Powell, 1975.

Variety of Tasks Spices WEP Work For Sharon



WEP Student Sharon Swedblom (right) is shown the techniques of editing by her sponsor, Lonie Cox of Code 12.

By DONNA REINHART (WEP Student Assigned to The Rocketeer)

"It's the variety in the work - that's what I like most When I first came here I thought I'd be put on one specific project, but not so," stated Sharon Swedblom, Burroughs High School senior who is now a Work Ex-

Under the direction of Lonnie Cox, her sponsor in Code 12, Sharon is experiencing the ac-

tual situations of various projects involving technical writing. Since she began her work at Michelson Lab, Sharon has had the opportunity to work in an

atmosphere suited to her field of interest — technical editing. "Working at the Lab with peomy interest in scientific writ-

ing," said Miss Swedblom. Sharon is one of 51 WEP stu-Larry Graham 1162 (S) and dents who have been working at

cation at Cal Poly, San Luis

Sharon was originally assigned to Stuart Lilly of Code 55 but Good luck to the remaining was transferred to Weapons

chelson Laboratory, Room 1004. bridge, Md., May 10-14.

Weapons Planning Group at NOTS Top 12 **Bowlers Named** Twelve of the Station's tor

military bowlers will represent NOTS in the 11th Naval District Northern Area Bowling Tournament to be held in Long Beach

Members for the two six-man teams were picked from the local bowlers in a 12-game roll-

Seven men and an alternate from the Naval Air Facility and five from NOTS Enlisted Personnel Division were named to

Bowlers selected from the Naval Air Facility and their

Alex Ribultan, 2203; Darwin Richardson, 2124; Louis Rivera, 2109; Ed Dubravsky, 2038; Burton Smith, 2032; LCdr. Jack Miner, 2014; Floyd Kerr, 1996; and William Walsh, alternate, 1954.

NOTS Enlisted Personnel Division bowlers selected were: Mike Hruska, 2107; Bernard Crum, 2082; Joe Korkosenski, 1988; Lee Allen, 1987; and Bob

All-Navy Bowling Championsirous of assisting League operin 1955. All Events — Again picked up weekdays between the ship Tourney will be held at the



TOP MILITARY BOWLERS — Ten of the 12 top military bowlers who will represent NOTS in the 11ND Northern Area Bowling Tourney at Long Beach are (front row, I-r), Louis Rivera, and LCdr. Jack Miner, NAF; Bernard

Crum, NOTS; Floyd Kerr and Alex Ribultan, NAF. Back row (I-r) Joe Kokosenki and Lee Allen, NOTS; Darwin Richardson, Ed Dubravsky, Burton Smith, all of NAF. Not present: Bob Powell and Mike Hruska, both of NOTS.



Donald Robinson, PNSN, USNR, has had his eye on this coveted award for many months and now that he finally made "Sailor Of The Month" he is justifiably proud. His co-workers at the NOTS Long Beach facility readily ad-

mit that he's doing a splendid job as diary personnelman. Robinson is responsible for the all-important diary entries

reflecting gains and losses of enlisted personnel. His selection for this award was based on his outstanding accomplishment of assigned duties, excellent attitude toward

the naval service, and his military apearance. Robinson, who considers Phoenix, Arizona, his home currently resides at NOTS barracks 63, Naval Station, Long Beach.

Sailor Of The Month NOTS Pasadena

VIRGINIA E. LIBBY - EXT. 638

PROMOTIONAL **OPPORTUNITIES**

To apply for vacancies, contact Nancy Reardon, Pasadena Personnel Division, Extension 492. A current SF-58 must be submitted when applying.

Industrial Engineer or Administrative Assistant, GS-11 or GS-12; Technical Planning Staff, -Underwater Ordnance Department, Code P801 - Preparation and maintenance of project plans for R&D programs, including scheduling and funding; implements PERT system on designated programs; makes special staff studies. Applicants should have at least one year's experience with PERT/time. PERT/cost experience is desir-

Mathematics Technician, GS-5 or GS-7, PD 5P80013, Code P8053—Incumbent will do data processing and analysis. He devises data reduction methods, and provides technical direction to contract employees for the graphic presentation of data. Grade level will be fixed according to qualifications of ap-



Friday, March 19, 1965

IT'S A HAPPY OCCASION for Dr. J. W. Hoyt, Head, Propulsion Division, UOD, as he receives a patent holding award of \$50 for his "Turbulent Flow Viscometer." Capt. G. H. Lowe, OinC NOTS Pasadena, makes the presentation to Dr. Hoyt.



HOSTED at Pasadena Annex last week by D. J. Wilcox, Head, UOD, (center), Capt. G. H. Lowe, OinC, Pasadena (r), and Capt. J. I. Hardy, ComNOTS (not shown), RAdm. C. A. Karaberis, Mgr. ASW Systems Project Office (I.) was here to review ASW programs.



JUNIOR PROFESSIONAL employees from NOTS, China Lake, are receiving statistics of the Variable Angle Launcher (VAL) from Bob Larson, Head, Ballistics Section (1), dur-

ing an orientation visit to Morris Dam. The JP's spent the day at the Pasadena facilities, being introduced to the organization and attending briefings on current programs.

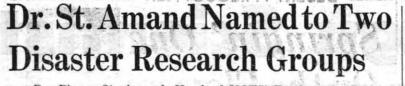
Bowling Battle

By Ray Hanson

The battle of the also-rans still rages in the NOTS Wednesday night bowling league, with shot and shell falling all over the greensward. The Quiet Five still lead, of course. But the Side Winders have moved into undisputed second place, two games ahead of the wounded Alley Kats in third. The Jacks and Better trail the Kats by only one game for fourth, so that the spread over all three teams is a mere three games. with no truce in sight.

touchables and Quiet Five, 2890 son, 612; men's game, Hal Byall, 250; women's game, Bev Flynn and Jan Cardwell, 220

My wife claims she's a perfect wife because she lets me out with the boys one night a week. Big deal! I'm a scoutmas-



Dr. Pierre St. Amand, Head of NOTS' Earth and Planetary Sciences Division, has been named to two key groups devoted to investigations and research into earthquakes, tidal waves, and other natural disasters.

One is a State of California committee and the other is a United Nations group.

As an outgrowth of the Earth-



DR. PIERRE ST. AMAND

cisco last December, Dr. St. Amand was asked by Hugo Fisher, administrator of the Requake and Geologic Hazards sources Agency of California, to be a member of the Program Committee to advise the agency and the State government on steps to be taken in the event of disasters, such as the Good Friday earthquake in Alaska last year. Dr. St. Amand flew there on the request of Governor Edmund G. Brown at that The Program Committee will

Conference held in San Fran-

up a clearing house of such information, and suggest research 'we are not now doing," according to Fisher. As a member of the United

collect data and information, set

Nations group, the NOTS scientist will perform similar duties, but on a world-wide basis.

"If a disaster hits, some of us will be on the way to the stricken site anywhere in the world - almost immediately, certainly within 72 hours," Dr. St. Amand said.



PLENTY OF TIME FOR GOLF, NOW! - Code 55's William M. Sherlock, who retires after 35 years of Federal Service,

Bill Sherlock Retires After 35 Years Federal Service

Engineering Department's William M. Sherlock, an electronics echnician, ended an illustrious 35-year career of government serv ice last week.

Included were 13 years of military service and 22 years of Federal Civil Service, 14 of which were at China Lake.

Born in Media, Penn. Sher- Sherlock had his larynx reform in 1939.

Highlight of his naval career 'I was never able to master Indianapolis' 5-inch anti-aircraft shout 'Fore!" he chuckled. batteries.

first U.S. President to fire a eration in 1959.

Sherlock started his Civil BHS graduate and a NOTS Service career as an electrical Work Experience student, is in inspector at Terminal Island his senior year as an electronics Shipyard and subsequently at engineering major at the Calithe Mare Island and Long Beach fornia Institute of Technology. yards until 1945 when he estab- The Sherlocks will make 320 lished his own contracting busi- Warner St., Ridgecrest, their re-

the Engineering Department.

"It's been a rewarding 35 years," the NOTS' pioneer said, "of course we've had our good and bad years - that's life."

lock entered the Navy in 1926 moved in May of 1962. He was and hung up his gold braided without his voice for a year dur-Chief Fire Controlman's uni- ing which he had to communicate with scribbled notes.

occured aboard the USS Indian- esophageal speech. But I acapolis when he designed a fir- guired a Kett Electro-Larvnx ing key to enable President device which allows me to talk Franklin D. Roosevelt to fire the quite easily. Of course I can't

During their tenure at China The event took place in 1933 Lake, Bill and his wife, Marian, while the President was aboard surmounted the tragic loss of the Indianapolis on a cruise to their 12-year-old son, Leonard, Bar Harbor, Maine. He was the in an "open heart" surgery op-

ship's anti-aircraft batteries. Their eldest son, David, a

ness in the Los Angeles area. tirement home where they can In 1950 he returned to Civil maintain their NOTS friendships Service here at China Lake with and indulge in desert living.



MORE THAN 220 BOYS from the Webb School of California, at Claremont, got a real thrill watching an Air Development Squadron Five weapons delivery demonstration during their tour of the Station last Wednesday. The group was undoubtedly one of the largest

"dad" to them all for the day? VADM Paul D. Stroop (arrow), ComNavAirPac, former Station commander, that's who. At lower right is Capt. Leon Grabowsky, Station Exec-

All Clubs Invited **To Submit Names** For Directory List Here Monday

All clubs and organizations of Indian Wells Valley wishing to particularly for his impressive rectory issued by the Commu- California and Arizona deserts, nity Relations Office are re- will give a painting demonstraquested to notify that office be- tion at the regular monthly

use the form included in the Exhibit Center. The Art 1964 Club Directory and mail League's business meeting starts it to Code 1131. Forms are also On display in the Combat Art available at the Community section of the center will be 30

Community Relations Office includes name of club or organization, name of contact, meet- Air Station, Pensacola, Fla. ing time and place, and mail- Bender's paintings for the

new employees. It is considered Others Fear to Tread."

Famed Artist **Bill Bender**

Bill Bender, nationally prom inent southland artist, noted be listed in the 1965 Club Di- atmospheric paintings of the meeting of the Desert Art League, Monday, March 22, at Phone Ext. 71659 or 71575 or 8:30 p.m. in the NOTS Weapons

paintings of the Navy Art Co-Information required by the operation and Liaison Committee, western division, 1964 exhibit, including six of Bender's canvases made at the Naval

Navy Combat Art program are nerton, famous desert painter the Station's Recruiting Pro- Showers," "Sunday, USN," and "Kanyon Kiddies." gram and in the orientation of "Headed Home" and "Where The public is invited to attend

as a protege of Jimmy Swin- hibit.



BILL BENDER

The Club Directory is used in Fliers," "Grounded by Summer comic strips, "Little Jimmy,"

Bender's presentation and also o be of benefit to both clubs He started his painting career view the Navy Combat Art ex-



BIE DAY - NOTS Pasadena played a role in the local annual Business, Industry and Education Day by extending invitations to 35 Pasadena elementary school teachers to visit the Annex. The visitors are pictured near the ASROC missile at station entrance. Dr. J. W. Hoyt (official host for the group), Bernard Silver, Cdr. H. F. Burns and George Pollack represented the station by attending morning sessions at

Hale Elementary School and the continuing program in the Pasadena High School Auditorium. The station representatives escorted the teachers to lunch then to Pasadena Annex where they were welcomed aboard by Capt. G. H. Lowe and D. J. Wilcox. Following an afternoon program, the visitors were conducted on a tour, meeting with technical personnel who explained the functions of the various laboratories.

High scores for the week are as follows: team series, Un-(tie); team game, Infirmities, 1033; men's series, Jim Henry, 637; women's series, D. Aitchi-



VX-5 TRIPLE ENLISTMENT—Going for six, four and six, resepctively, are (I-r) James A. Butner, YN3; Raymond E. Avertt, ADJ2, and

Morris Hall, ADJ3. Disbursing Officer LTig. Wilfred J. Bergeron presents them with their shipover checks.

NOTS and Pt. Mugu Scientists Join in Study of Porpoises

(Continued from Page 1) training that entails assigned tasks to perform.

The "conversation" between the animals in performing these tasks is being investigated to verify or eliminate a potential application.

"Alice" and "Dash," a pair of dolphins under close study at the facility, are pointing to another area of potential value related to man-dolphin communi-

A prerequisite to this relationship, it was pointed out, is one be immediately recognizable to the other.

Dolphin sounds are presently unintelligible to man.

Devise 'Language' Pattern

This problem area has been partially solved through the design and development of an electronic translator. Dolphin sounds fed into the translator are converted into a "language" pattern that can then be simulated by man.

These sounds, fed back into the translator, command specific actions by the animal, the completion of which brings a reward of fish.

The translator process involves a "breakdown" in both volume range and syllabic emphasis of the normal porpoise whistles, clicks and grunts.

Robert E. Bailey, now in his third year of porpoise investigation, is seeking remote acoustic control over porpoises.

His objectives are related to establishing a means for humans to transmit to porpoises over long distances and to study the degree of reliability of the porpoise's response to these com-

The ease of sound transmission in water has greatly facilitated this particular study. Numerous sound-producing devices have undergone test and evaluation at the facility under Bailey's direction.

Tests in Open Ocean

Extremely reliable levels of performance by porpoises have been established under acoustic control, at ranges of over 400 yards to date. Bailey commented that extensive testing has also been conducted in the open ocean.

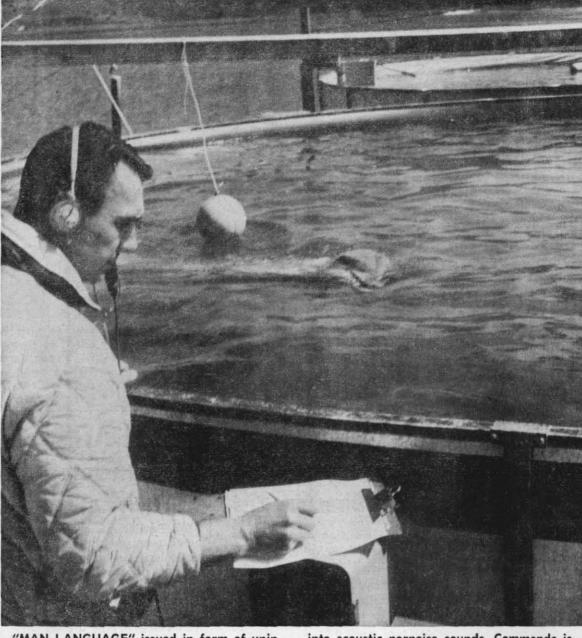
An important adjunct to this area of study is the development of a harness for porpoises. The harness enables the animal to be instrumented during performance. A secondary application of the harness is its value in the actual taming and training processes which captive animals undergo.

In the areas of hydrodynamic studies, conducted chiefly by Tom G. Lang, Hydrodynamic Group, Research Department, porpoises were observed in both closed tank and open ocean environments.

Top average speeds of up to 16.1 knots were recorded during the summer and winter of 1964 at the Oceanic Institute in Hawaii. Results of these and subsequent tests show the power output per unit body weight was equivalent to that of human beings, and the drag was equivalent to a streamlined, torpedolike body. Large skin waves appear on the animal's body surface, leading officials to surmise that porpoises develop their own counteracting force to eliminate drag impediments.

Lang noted that future tests are to be conducted on species of porpoises other than those used in the previous tests -

(Continued on Page 5)

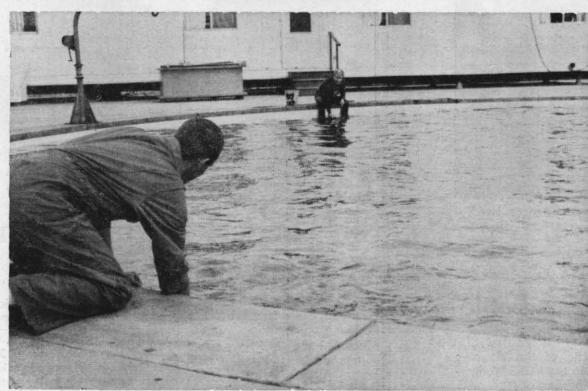


"MAN LANGUAGE" issued in form of unintelligible sounds by researcher Ralph H. Penner to porpoise is translated electronically





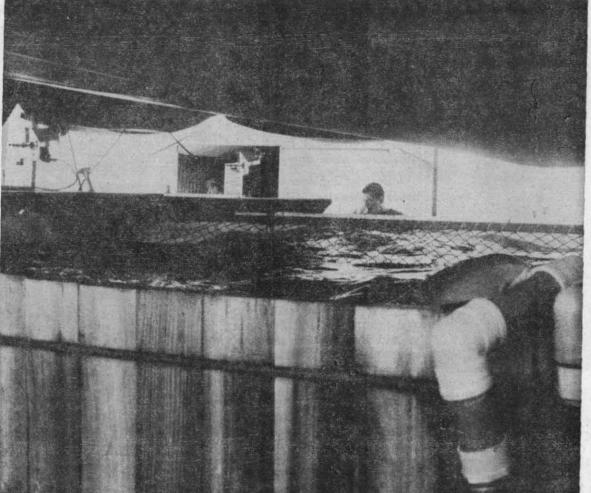
HAND ON NOSE of "Salty" (above) holds animal until command is given by Scott Johnson. Removal of hand sends porpoise on retrieval mission. Ocean partners (at left) in science are "Buzz-Buzz" and Robert Bailey, NOTS biologist.



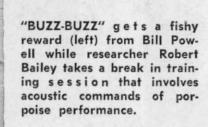
ACOUSTIC "BEACONS," held under water at three stations in pool, command varying actions (above) by "Buzz-Buzz." Bill A. Powell (foreground) and Robert E. Bailey (background) demonstrate ap-

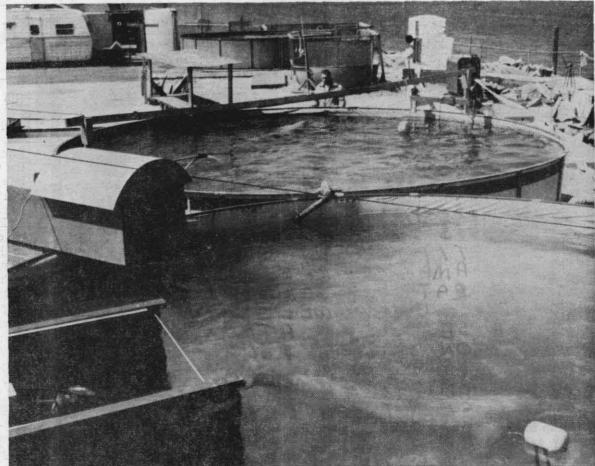






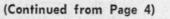
COVERED TANK (above) holds pair of porpoise undergoing studies that involve command by lights. Tank's canvas roof cuts glare from sun, giving animals better vision in critical work.





MARINE BIOLOGY Facility at Pt. Mugu includes layout of temporary, above-ground tanks in addition to more permanent pools

built of concrete. Plans presently call for construction of tanks replacing temporary facili-



ones which have greater speed potentials. These tests will further qualify man's search for the ultimate design in hydrodynamic application.

In Separate Tanks, they 'Chat' From the pure curiosity standpoint, one of the most interesting tests yet conducted involves intertank communications with a porpoise in each of the two tanks.

A hydrophone complex linking both tanks and monitored by one of the facility's investigators reveals that porpoises literally "call" one another. Thereafter, they "chat" via the manmade communications hookup as might a pair of housewives on the telephone.

Pull the plug on either end of the line and the porpoise "conversation" stops.

What all this means is yet to be learned. Definitive information gleaned thus far indicates, however, that there does exist in the porpoise a degree of intelligence sufficient to distinguish it from animals thus far observed by science.

The Navy's current porpoise studies go back to the year 1959, which were initiated by Dr. Mc-Lean. Dr. Rene Engel, Research Department, was one of the first Station officials to institute formal investigation of porpois-

Lang Directs

By 1962, enough data had been collected to stimulate a program of further study.

Tom Lang was appointed to direct these studies, the first of which were held during the early part of 1963.

Interest and tangible data have been produced on a continuing basis since that time.

In January this year, the Facility operation and ownership was transferred to the Naval Missile Center, commanded by Captain Carl Holmquist, formerly attached to China Lake as Technical Officer.

F. G. Wood, Jr. serves as Manager of the Facility with the following NOTS personnel engaged in tests sponsored by the Station: Dr. C. Scott Johnson, Ralph H. Penner, Robert E. Bailey and William E. Evans.

Bill A. Powell, formerly associated with Behavioral Sciences Group locally, serves as NOTS Coordinator for all studies under NOTS sponsorship.



SCOTT JOHNSON fits "blinds" on animal for tests involving identification and retrieval of articles through sonar.



FEMALE TRAINER gives basic lessons to porpoise, using

whistle as command for animal to touch nose in center of

paddle she is holding.

