25 and Jan 1. Navy Exchange Store: DEC. 25 Closed Dec. 25 and Jan. 1. Outdoor Shop:

6 and 8:15 p.m.

(Adventure in Color) Walt Disney's superb

Closed Dec. 25 and Jan. 1 adventure documentary of deserts from Mexico to Oregon and Texas to California. Pharmacy: Shows our deserts not a dormant sands but as a teeming, racing, thrilling form of life. Bears pursue a bobcat, hawks catch bats in

mid-air. Wildilfe struggles to exist. (Family). SHORT: "Hound That Thought He Was A Raccoon" (48 Min.) THURSDAY-FRIDAY

CLOSED CHRISTMAS EVE

"THE LIVING DESERT" (69 Min.)

"THE CONDEMNED OF ALTONA" (114 Min.) Sophie Loren, Maximillian Schell, Frederic March 7 p.m.
(Drama in Color) Illness of the head of a

TUESDAY

German family forces revealment that their success was due to cooperation with the hidden in their mansion. Not a pretty story (Adult). SHORT: "Transylvania 6-500" (7 Min.)

-- MATINEE --"LAST OF THE BADMEN" (81 Min.)

George Montgomery
1 p.m. -- EVENING --"A MAJORITY OF ONE" (148 Min.) Rosalind Russell, Alec Guinness, Ray Danton

(Comedy-Drama in Color) When a Jewisl Y-MONDAY DEC. 29-30
"SUMMER HOLIDAY" (107 Min.) SUNDAY-MONDAY

Cliff Richard, Lauri Peters 7 p.m.

SHORT: "Gone Batty" (7 Min.)
TUESDAY-WEDNESDAY DEC. 31-JAN. 1
"SEIGE OF THE SAXONS" (85 Min.)

Jeannette Scott, Ronald Lewis (Adventure) King Arthur and knights, ac-

THURSDAY-FRIDAY JAN. 2-3 "RAMPAGE" (98 Min.)

Robert Mitchum, Elsa Martinelli No Synopsis Available SHORT: "Cold Turkey" (7 Min.)
CHILDREN'S MATINEE

1 p.m, Friday, Jan. 3 SATURDAY - MATINEE --"FROM THE EARTH TO THE MOON"

> -- EVENING --"ONE, TWO, THREE" (108 Min.) James Cagney, Pamela Tiffin

Berlin Coca Cola executive is told to safeguard the boss's daughter — and finds she's married a Commie! You'll how! as he saves his job. (Adults and Young People). SHORT: "Plutopia" (7 Min.)

SUNDAY JAN. 5 "THE RAT RACE" (105 Min.) Tony Curtis, Debbie Reynolds, Jack Oakie 7 p.m.

No Synopsis Available "THE WORLD AROUND US"

Color film of inside East Germany nar-rated in person by Robert Cohen, distin-guished American news correspondent and documentary film producer. TUESDAY-WEDNESDAY JAN. 7-8

"HATARI" (158 Min.) John Wayne, Elsa Martinelli, Red Buttons 7 p.m. (Adventure in Color) The men of a Tan-

ganyika game farm fill committments for world-wide zoos and action fills the screen. A bit of humor, very light romance and thrills galore make this a don't miss film. Jeep vs. Rhino! (Family). THURSDAY-FRIDAY

WATCH THEATRE MARQUEE TITLE AND TIME

Closed Christmas Eve; Dec.

Service Station: Closed Dec. 25 and Jan. 1.

and Jan. 1. Christmas Eve.

Anchorage Alley - Closed Dec. 25 and Jan. 1. Enlisted Men's Alley -Closed Dec. 25 thru Jan. 6.

Day.

Station Restaurant:

Station Theatre:

Snack Bars:

a.m. to 1 p.m. Jan. 1.

20-Prepare for

21-Greek letter 22-Cook in fat 23-Mohamme

remark 80-Talk idly

84-Babylonian

particle 38-Limb 29-Ireland

41-Printer's.

51-Title of

52-Prophet 53-Sea in Asia 54-Compass

DOWN

ief strain

dan prince

Closed Dec. 25 and Jan. 1.

Golf Course-Open Dec. 25 Station Theatre - Closed

Station Library:

Closed Christmas Eve.

Social Security Rep.

A representative from the other side of the infamous wall side spacing of storage maga- Center; Ken L. Collingsworth, Bakersfield Social Security office will be at the Community live.

FACULTY MEMBERS of the Naval Post visit to the Station. They also toured Michel-Graduate School, Monterey, Calif., inspect the "Skytop" facilities during their two-day

son Lab and the ranges and were briefed on some of NOTS projects.

Inside East Germany'

be presented at the Station Closed Christmas Eve and Theatre on Monday, Jan. 6, 1964, World Around Us" series.

> er, will host the program, an report on the part of Germany in a storage magazine. under Communist control. It's Purpose of the test was to D'Arcy V. Schuldice and Ger-

CROSSWORD PUZZLE Answer to Previous Puzzle

41-Teutonic

46-Playing car

47-Doctrine 48-Born

49-River in

Wales

50-Hurried

For Use In Authorized Service Newspapers Only

10-Pose for

26-Paper

vessel 82-Musical

83-Seed

container 86-Chinese mile 87-Guarantee

portrait 11-Garden tool 17-Symbol for

measure

New 'World Around Us' ASESB Group Witnesses "Inside East Germany" will Storage Magazine Blast

Twenty representatives from mark, N. J. Christmas Day. Closed New as the first of the China Lake Army, Navy, Air Force and De- Interested spectators in at-Year's Eve and New Year's Community Council's new "The fense Atomic Support Agency, tendance included Otis T. Hudaugmented by Station person- son of BuDocks, Washington, D. Robert Cohen, distinguished nel, attended the Armed Services C.; Dr. Adolph B. Amster, Stan-Closed Dec. 25. Open 6:30 American news correspondent Explosives Safety Board two- ford Research Institute; Richand documentary film produc- day meet here Tuesday and ard M. Rindner and L. W. Saf-Wednesday to witness a test fir- fian, Picatinny Arsenal; Col. E. objective and forceful first-hand ing of 50 tons of high explosives H. Hilsman and Russell G. Per-

p.m. Wednesday utilizing three Major H. J. Eberle, Space standard earth covered maga- Systems Division, L. A.; Lane C. zines. The 50 tons of explosives Prior, J. Atkins and Thomas J. were detonated in the center Barry, Jet Propulsion Labora-

Branch Head of the Test De- der. partment, with Dick Boyer as project engineer.

Board Secretariat, and Russell Perkins, staff safety engineer to rescue helicopter arrived, some the Board Secretariat. Purpose of ASESB is to ad. Garcia commented. vise secretaries of the military He told of witnessing several

a dramatic view of life on the determine the minimum side-to- ald Couch, United Technology ... how the East German people zines to prevent a chain reaction Norton AFB; Earl L. Taton and if an explosion should occur Charles J. Haney, DASA; Nile (Musical in Color) Four young bus methodics tour the continent in a double-deck-derivative form. The test was conducted on the Randsburg Wash Range at 1

W. Harbertson, Hill AFB, Utan; Within a storage area.

The test was conducted on the Randsburg Wash Range at 1

EM; James R. Powers, CSAF;

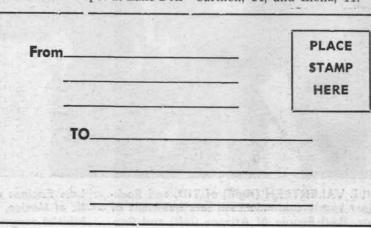
> magazine with magazines at tory; Lt. Col. Steven Plish, USA, varying distance on each side. White Sands Proving Grounds; The test was under the cogni- Harry G. Johnson Jr. and Therzance of Fred Weals, Ordnance on W. Driscoll, Hercules Pow-

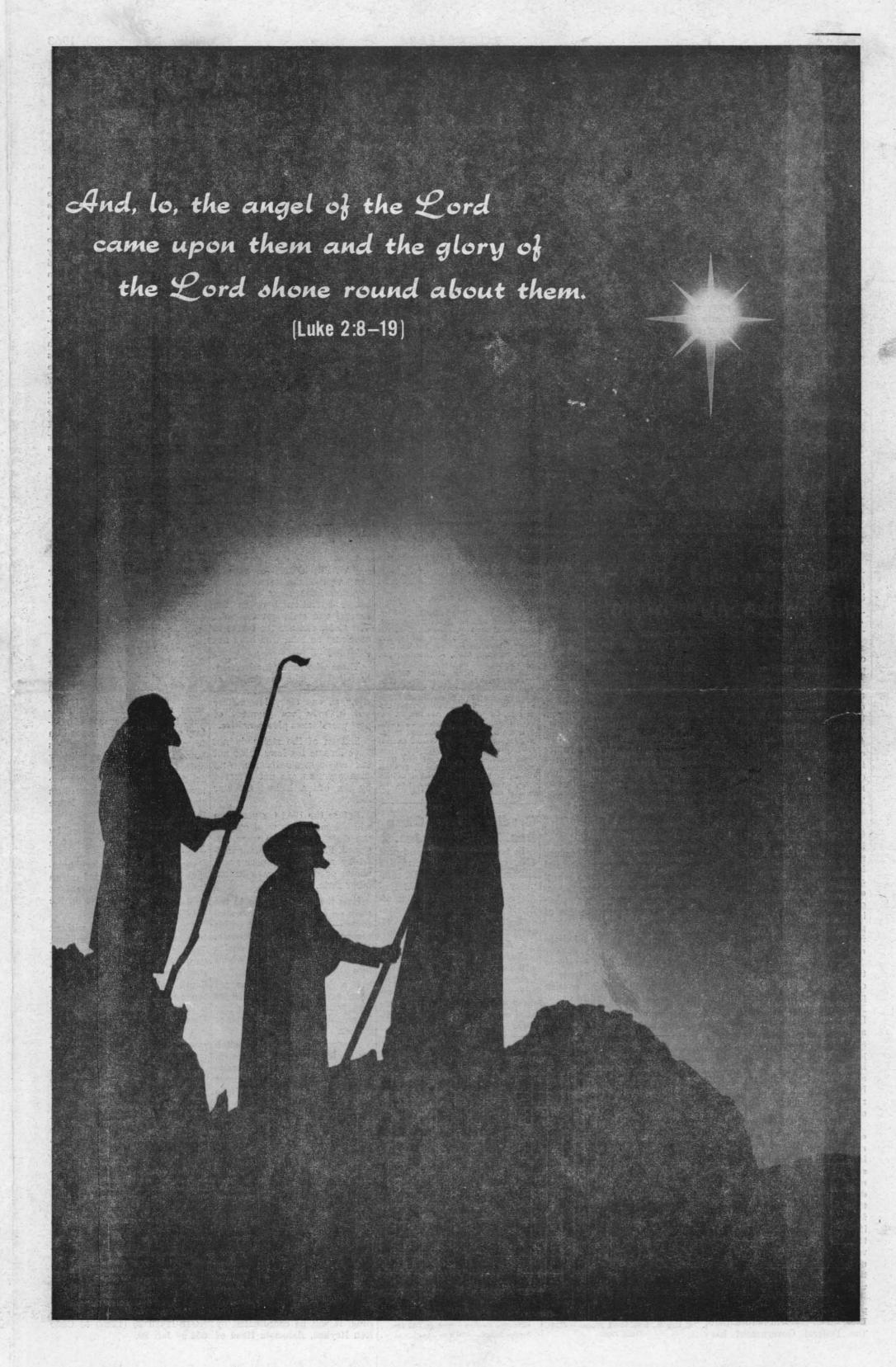
ASESB officials present to witness the test were Col. E. H. Rescue . . .

Hilsman, Army member of the (Continued from Page 4) 15 minutes after the accident,"

departments on safety measures air crashes during World War in the storage, handling, and II and the rescue procedures he shipping of ammunition and ex- had followed.

Now a 15-year veteran here ASESB was established for at NOTS, Garcia lives at 33A this purpose in 1928 following Vieweg Circle with his wife, the 1926 disaster at the Naval Adela, and daughters Gloria, 15, Ammunition Depot at Lake Den- Carmen, 14, and Elena, 11.





the pennant again!

Year's Day Bowl games.

RIM

SHOTS

By BILL VALENTEEN

long ago that I first began to write this column.

Man, this year really flew by! It doesn't seem like very

A lot of wild things happened this past year in the Sports'

It is important to reflect, however, that even though tre-

world. I hate to start mentioning the more important achieve-

ments during the year for fear of having the Giants winning

mendous records have been set in the past, we are still not

completely surprised to see them broken, and we shall expect

to see them broken further in the future. And, did you ever

stop to realize that breaking a record today, means that the

person doing it is greater at that one particular thing than

NAVY VS. TEXAS IS A BIG ONE

activity going on, particularly in preparation for the New

watch on New Year's Day is the Cotton Bowl game which this

year will pit the University of Texas-No. 1 team in the na-

THANKS FOR THE COMMENTS

would never have taken the time to acquire otherwise.

if I don't know about it, I can't do anything for you, can 1?

BEST WISHES FROM THE FAMILY

in 1964, and I'd just like to say that I wish you the very best

that it can offer, both in general as well as personal treasure,

and I'm sure you'll make the most of it when it comes your

way. My wife, Therese, my daughters, Susan and Celene, all

join me in wishing you a very nice Christmas season, and that

you will have many, many more good years to remember.

Keep smilin', Sport! See you next year!

BILL VALENTEEN (right) of TID, and Rock-

eteer sports columnist, answers questions of

Gov. Paul Fannin of Arizona (left) and Gov.

Well, anyway, we've got a great year to be anxious about

And, this year isn't over yet. There is still quite a bit of

Probably the most interesting contest that we'll be able to

anyone who ever lived in the history of our civilization?

CHAPLAIN'S MESSAGE

The Purpose Of it All



By CHAPLAIN ROBERT FENNING

Last year the press reported that a well-known New York preacher was all for surrendering Christmas to the secular interests that seemed to know more than he did what the holiday was really for. He wanted to observe it on the later date known as Epiphany on the Christian church calendar. While his idea barely attracted the attention of a busy world (we doubt that his own congregation took him seriously), there is something to be said for his growing reluctance to conform at this time of year.

It is strange that a story so simple and beautiful in its inception could mushroom into the complex institution it has become. Characterized by a stable scene and poverty, the event has come to find relevancy in the volume graphs and charts of Wall Street.

The following bit of satire appeared in THE SATURDAY REVIEW and is quoted in Bishop Gerald Kennedy's Notebook:

"Last night John Elzy, watchman at the Grand Eagle Department Store, while making his rounds of the bargain basement, found the body of a man lying under a counter. He was thin to the point of emaciation, apparently in his middle thirties, and was shabbily dressed. His pockets were empty and there were no marks of identification upon his person. Store officials believe that he was trampled in the Christmas rush and crawled under the counter for shelter. But they are unable to account for what appear to be nail wounds in his hands. The police are investigating."

How can we know the meaning of Christmas unless we are willing to turn to the source of Christmas? The Scriptures, not the opinions of men, can help us rediscover the warmth and wonder of this time. God's love lies at the heart of it, and a world again at peace with Him and itself is the promised

SecNav Note Emphasizes **Need For Greater Thrift**

Following is a note from Secretary of the Navy Paul Nitze on goods management and economical administration in the De- 30, partment of the Navy:

and in meetings with the heads of departments and agencies, the President has stressed the ment improvement. But we canneed for greater thrift and frugality in the government. Accordingly, the Secretary of Defence has been discovered by the secr fense has directed all elements as have ever been made in the File Standard Form 57, Cord Form NAV of the Department of Defense, past. The citizen's faith in free military and civilian, to take government is strongly influencnormalization of the Department of Defense, government is strongly influence point, Rhode lisland, no later than close of business on Jan. 9, 1964. vigorous action to improve man- ed by the extent of his conagement and achieve economies.

forces and each civilian employe is requested to do his utmost to improve performance. Since we must work hard to reduce each person's contribution to greater economy and efficiency in the work for which he is responsible is to be reflected in fitness reports and performance

prime obligation to support the that has been assigned to us. Defense in their efforts to get will follow." a dollar's value for a dollar spent. To accomplish this, each person should do his utmost to improve both his own efficiency. and that of the unit in which he serves. All are expected to re-examine their procedures and operations.

"The Department of Defense cost reduction program has already achieved substantial savings without diminishing our strength or fighting effectiveness. Our effort must now be directed not only to meeting the target already established for the future but to go beyond it. We can do this by expanding the number of areas in which we seek improvement, the techniques by which we do this, and hotographs the vigor and imagination which

we demonstrate in this effort. "In his letter to heads of departments dated 30 November 1963, the President wrote that 'the Federal Government has

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

Electronic Technician, GS-11, Code 5019 cumbent will assist Branch Head by maining, modifying and operating electron

sibility for providing staff budget support for two technical departments on the Sta tion: such as knowledge of appropri

Thomas, Bldg. 34, Room 28, Phone 71648. Supervisory General Engineer, GS-13 or GS-14, Code 4033 — As Head, Advanced

Clerk-DMT, GS-4, FD 140172, Code 4022 Provides clerical for members of Analysi Branch and Guided Missile Division; type nce, notes, project plans and re ports from either material dictated on Logs and files various operating documen

ling, Bldg. 34, Room 28, Phone 71577.

Deadline for filing is Dec. 27.

torial and clerical duties as is necessary

Deadline for filing is Dec. 31.

COMPETITIVE EXAMS Form 57 with the Personnel Division, Code P-659, Pasadena, Calif., no later than Dec

"In recent public statements reason to be proud of its many Colif. File Cord Form NAVEXOS-4155-AB and Standard Form 57 with the Detached Rep

fidence that public servants are "Each member of the armed alert and efficient in conserving Credit Union to Close the nation's resources entrusted in their care. For this reason,

terest of indicating the people's ployees Federal Credit Union of-1963 through Jan. 2, 1964. "I am sure that you all share

"I should like to emphasize utmost in assisting the President will be held at the Community he's stationed.

The Rocketeer

recent achievements in manage-

Official Weekly Publication U. S. Naval Ordnance Test Station China Lake, California Captain Charles Blenman, Jr., USN

> "J." "T." Bibby Jack G. Broward Editorial Advisor Richard Grueneberg

Budd Gott Frederick L. Richards Special Assignments

.. Tues., 11:30 a.m. ne Rocketeer receives Armed Forces Press ervice material. All are official U. S. Navy notos unless otherwise Identified. Printed

DEADLINES

-Ith NavExos P-35, Revised July 1950. Office Unitarian Fellowship (Parish Hall) 50 King St., Bldg. 00929. Phones — 71354, Fellowship Meeting — Sundays, 7 71655, 72082.

PROMOTIONAL **OPPORTUNITIES**

Budget Analyst (one vacancy), GS-9 or GS-11, Code 1731 — Incumbent has respon-

Secretary (typing), GS-4, P.D. 19696 AM1-A, Code 554 — Secretary to the Head, Manuassist him in the efficient operation of his division and relieve him of all duties of a

Annual Meeting, Jan. 7

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

Protestants (All Faith Chapel) Morning Worship-8:30 and 11 a.m. Sunday School-9:30 a.m., Groves and Richmond elementary schools.

Roman Catholic (All Faith Chapel) Holy Mass-7, 9:30 a.m., and 12:30, 5:30

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-

4 to 5:30 p.m. NOTS Hebrew Services (East Wing All Faith

Every first and third Friday, 8:15 p.m. Sabbath School every Saturday morning. Fellowship Meeting — Sundays, 7:30 p.m. Sunday School — 9:30 a.m.



Naval Ordnance Test Station, China Lake, California Vol. XVIII, No. 50 Friday, December 20, 1963

About The Cover



For hundreds of years the shepherd scene has been a Christmas classic. Luke tells in the Bible about that first glorious night nearly 2000 years ago as the shepherds were awed by the heavenly voice. They stood in rocky desert terrain between Nazareth and Bethlehem, terrain very much like this in the Mojave Desert. Thus, on our cover today, we offer a photographic re-enactment. The picture was taken on a hilltop south of Trona Road about six miles east of the U.S. Naval Ordnance Test Station's south gate. Navy Photographer Lee Mascarello, PH2, used Tri-X film in a 4x5 Speed Graphic, exposing at 1/100th of a second at f. 32 shortly before sunset. No filter was used. The art work was done by Dick Johnsen of TID.

New Income Tax Orders Issued For Servicemen

(From Navy Times)

WASHINGTON-A recent Bureau of the Budget circular Childers, Bldg. 34, Room 32, Phone 71393 has ordered the services to send a man's W-2 statement of earnings form every January to his home state as part of the tax co-operation between the-

federal and state governments. other parts of the "big picture," Planner and Estimator (Public Works), \$3.98, \$4.15, \$4.32 per hour, Posadena, Calif. File Card Form NAVEXOS-4155-AB and Standard check up on men who have not The states can use the forms to they said.) been paying taxes.

> Those who have "inadvertentcile," as one Navy law officer

EXOS 4155AB with the Industrial Relations of Men overseas are not affected act does exempt him from some

Before the 1963 tax year, the state taxes.

confidence in the institution of fice will be closed to all tran- state - and city if it taxes in- records. sactions from 1 p.m. Dec. 24, come — the man has put on his The fourteen states without

home state tuition charges and men.'

The Navy Judge Advocate General officer reminded that ly failed to take cognizance of the Soldiers and Sailors Relief the income laws in their domi- Act does not relieve servicemen taxes resulting from his presence in a place because of military orders. It merely keeps him Sixteen of the states do not from losing citizenship in his have income tax laws or do not home state because the military tax servicemen's income. And orders him to another one. The by the order, BuBud Circular taxes in the state where he's stationed but not from home

withholding forms went only to | His family is not relieved by Dec. 24 Through Jan. 2 the state where men were stathe act from taxes in the state In order to calculate and post tioned. Payment could be avoid- where he is based, in most inincreased economy is so vital the cost of government, not 1963 dividends and accomplish ed by stating your permanent stances. Practically every quesan aspect in national policy, each person's contribution to be made, but also in the in-Now the forms will go to the step is to get a domicile on the

records as his permanent home. income taxes are Connecticut, If he has not made a choice Florida, Illinois, Maine, Michi Annual membership meeting W-2s will go to the state where gan, Nebraska, Nevada, Ohio, to everyone in the Department and the Secretary of Defense in Center, 8 p.m., Jan. 7, 1964. The If a domicile choice has not South Dakota, Texas, Washingagenda will consist of announce- been made, the legal official ton and Wyoming. In addition, ment of 1963 dividends, the ansaid, "our best advice is for him neither Tennessee nor New President and the Secretary of "Implementing instructions nual report, and election of offito see his local legal assistance Hampshire taxes service income.

A full discussion of the situa-A serviceman can also switch tion is carried by the November his domicile if he wants to with issue of the Navy Judge Advothe aid of his legal assistance cate General Journal. A member officer. But this is sometimes of the tax rulings division of tricky and it probably won't be the Internal Revenue Service, long until all states have in- Army Reserve Capt. Rudolph M. come taxes anyway, experts say. Planert, has details in his arti-(Too, he might lose out on vet- cle, "Federal-State Co-operation eran bonuses, voting rights, and Its Significance to Service-

Project Management Seminar Rescheduled

scheduled to begin Jan. 6 has Laboratory. been rescheduled to start on Jan. 28, the Employee Develop- The seminar is suggested for ment and Education Division an- project managers and potential

from 2:30 to 4:30 p.m., for 12 should be forwarded on NOTS weeks in Room 205, Training Course Enrollment Form (11ND-Bldg. It will be coordinated by NOTS-12410/28 (12-62) to Code Ken Heyhoe, Associate Head of 654 by Jan. 20.

Management E, the Project | Staff for Management, and by Management Seminar originally Ted Gautschi of Jet Propulsion

project managers at the GS-12, The class will meet Tuesdays, 13 and 14 levels. Nominations

TV Bowling Stars Matched Against Local Keglers Sat.

tion, the only major club to remain untied and undefeated-Station bowlers are in for a against the mighty middles of Navy. The Academy boys don't have to take a back seat to anybody, even though they were when television bowling stars knocked off by a fired up SMU team back in the beginning of George (Spook) Berry and the season. I look for Navy to beat Texas, and I think they will. Larry Lake will put on an exhibition at 10 o'clock at the Since this is the last issue of the Rocketeer for the 1963 Anchorage Alleys.

season, I'd like to take this opportunity to thank all of you Opposing Berry and Lake in who have been so kind in commenting to me personally about a three game match will be two your observations of this column. It's very rewarding to know of the Station's top bowlers, that you do read what is said, and more than that, that I have | Earle Roby and Ken Dalpiaz. the opportunity to tell you what I think, and that you are "Spook" Berry, who repre-

interested. I've had a lot of fun researching new and unusual sents the Brunswick Co., carries aspects of the sports' spectrum in order that I could provide a 212 average. He has an 837 you with interesting sidelights that I thought you would enjoy. series and has bowled three And I have experienced quite an education about sports that I 300 games. Larry Lake carries a 209 aver-

age. He has an 802 series to his In the future, however, I'd like you all to feel that you credit and has bowled two 300 can count on me for a personal treatment about your local situation, and for you to feel free to call me regarding just that Earle Roby has a 184 average

while 20-year-old Ken Dalpiaz There are a lot of things that go on around the area that has a 183 average. would make very interesting reading to a lot of people-but,

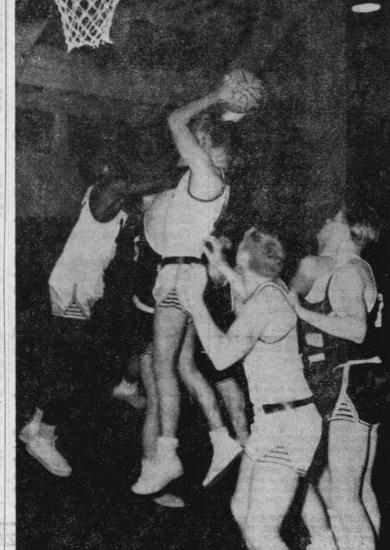
Jr. Archers Tourney Slated for Tomorrow

The China Lake Junior Archers 11th annual tournament is slated to begin tomorrow at 1 p.m. at the Junior Archery Range, 57-B Rowe St.

The tournament is open to bowmen in the 9-11 and 12-15 year age group.

Luis Encinas of the State of Sonora, Repub-

lic of Mexico, during their visit to NOTS' ex-



SEAMAN GUARD'S James and Turner smother Aero Science's Gary Hucek as they go after a rebound in Tuesday night's play while Seaman Guard's Webster (light jersey) and Aero Science's Lane and Short (dark jerseys) await outcome of tussle. Aero Science swamped the Seaman Guard 142 to 35. In Tuesday night's first game VX-5 squeaked by AOD 50 to 48.

Bowling Standings

Premier League Station Restaurant.. 22 11 Notre Dame had only one losing Desert Playhouse .. 18 15 16½ 16½ it? Cousins . Apes Roadrunners . 14 19 131/2 191/2 CPO Club

High team, 3 games — Desert High Team Game - Desert Play- one runner in a football game? house, 1072; High Individual 4. Who owned the interna-Game - Earle Roby, 268.

The 30 Club

Won Lost Unpredictables V. Smith Chevron .. 18 12 Just Missed 15 15 Easy Marks 15 15 10 20 Quints Twisting Poodles 7 23

High Team, 3 games — Unprehibit at recent Arizona State Fair in Phoenix. | Game — Irish Miner, 226.

SPORTS QUIZ

Won Lost 1. From 1889 through 1955 football season. What year was

> 2. What is the record for the most points scored in a football game by one player?

Playhouse, 2840; High Individ- 3. What were the most yards ual, 3 games - Jim Peck, 638; ever gained on one play by

tional racing sloop Shamrock?

(Answers to Quiz) 4. Sir Thomas Lipton.

yards long instead of the pre-1884, football fields were 110 When the record was set, in a touchdown on a 115 yard run. 3. Wylls Terry of Yale scored

against Cedarville in 1932. dictables, 2343; High Individual, sweb e ui stujod 1/ 30 letot e 3 games - Nan Carroll, 569; 104 stuiod extxe enit pencil pue High Team Game — Unpredic- sumopyonot 11 pasoss atets Alsa tables, 895; High Individual -qi7 tseW to elishers Joe Kershalls of West Lib.

Carolers Are On the Way

Members of the Christmas Choir, under the direction of Merton Welch, made their first appearance this season on Thursday, December 19, when they sang at the Long Beach Veterans Hospital,

On Tuesday, December 24, the strolling carolers will appear at Foothill and Morris Dam as follows:

8:15-8:45 a.m. — Supply

9:00-9:30 a.m. — Bldg. 7 Machine Shop.

9:45-10:15 a.m. — Coffee 11:30-12:00 Noon - Morris



CAROLERS-NOTS' Pasadena Christmas Choir will present its program of holiday season music at Foothill and Morris Dam.

Ens. Blake Relieving Lt. (jg) Galligan at SC



ENS. G. J. BLAKE

LT. (jg) J. D. GALLIGAN

Ensign Gerald J. Blake has reported aboard to relieve Lt. (jg) James D. Galligan as Assistant Resident Officer in Charge of Construction, San Clemente Island,

Pasadena from duty with Civil for duty with Mobile Construc-Engineer Corps Officer School, tion Battalion Four, Davisville, Long Beach. Incumbent does development,

Originally from Dayton, Ohio, he entered the Service in May ber 1962 for his first tour of nance items at the Long Beach Sea Range. gine aircraft — while en route nance Division, Hurst heads the 1963 at Newport, R. I., Officer duty after receiving his commis- In addition, he is responsible for range from Washington, D. C., to Penn- Planning and Estimating Branch. Candidate School. Graduating in sion through the Reserve Offi- operations for assigned test projects. September, he then went to his cer Candidate Program (ROC).

Ensign Blake comes to NOTS Lt. (jg) Galligan leaves today R. I., and will shortly be going

Born in Portland, Ore., he at-

NOTS Pasadena

VIRGINIA E. LIBBY - EXT. 638

Christmas Message

To all of you and your families, we extend warmest wishes for a joyous Christmas and a happy successful New

The old familiar refrain "Peace On Earth to Men of Good Will" has deep meaning to all of us whose daily efforts are directed toward maintaining that peace. Your dedication, competence, and cooperative efforts during this past year have contributed to fulfilling our Navy's mission

We look forward with much pride to serving with you during the coming New Year. D. J. WILCOX Capt. G. H. LOWE

Head, Underwater Ordnance Dept. Officer in Charge

PROMOTIONAL **OPPORTUNITIES**

Machinist; Hourly Salary Range: \$3.19 to \$3.45; Code P8094 — Sets up and operates various machine tools including lathes, bor-

Recent Visitors Die in Air Crash

Pasadenans were saddened this week with the news of a fatal accident befalling two recent visitors - Dr. J. H. Mole and I. A. Gatenby, both of the Admiralty Underwater Weapons Establishment, Portland, Eng-

strumentation and servo mechanisms for that they were victims of a NOTS 14 years. He came to NOTS in Septem- experimental and development testing of ord- plane crash — small single-en- With Public Works' Mainte-

cember 10.

Hurst served in the U.S. Navy during 1914-1918. 'Retired' Chimes Donated to Maturango Museum

lived in Burbank for the past Nothing quite epitomizes the as told by Elmer P. Price who is still very much alive with old- 23 years. They have two sons,

Edgar T. Hurst Retiring After 26 Yrs. Service



EDGAR T. HURST

After 26 years of federal service, Edgar T. Hurst is retiring. Though all the details are not Today is his last day at NOTS known, word received here was Pasadena. He has been with

The accident occurred on De- in 1941 at the Mare Island Naval He is a graduate of the University of Dayton, holds a Bachelor of Science lor of Civil Engineering Degree. degree in Engineering.

Various machine look including latter, bothing machines, precision grinding machines, pr

He and his wife, Mary, have

"His many friends are happy would extend more than 35



Schedule of Christmas Services

ALL FAITH CHAPEL PROTESTANT: Sunday, December 22 Children's Christmas Service 7 p.m. Christmas Eve, December 24 7 p.m. Christmas Day, December 25 Christmas Morning Worship CATHOLIC: Mass Schedule

Sunday, Dec. 22-7 a.m., 9:30 a.m. (Children's Communion), 12:30 p.m. and 5:30 p.m. Tuesday, Dec. 24-11:30 p.m. - Singing of Christmas Carols by Congregation. Midnight Mass.

Wednesday, Dec. 25—5:00, 5:30, 6:00, 6:30, 7:00, 7:30, 8:00, 8:30 and 9:00 a.m.; 12 Noon and 12:30 p.m. Confession Schedule

Monday, Dec. 23-4:00 to 6:00 p.m., and 7:30 and 9:00 Tuesday, Dec. 24-10:00 a.m. to 12 Noon and 3:00 to

HEBREW SERVICES: (East Wing of All Faith Chapel) Friday night services at 8:15 sharp, Dec. 20.

Acey-Deucey Club To Host 50 Children At Christmas Party

brighter for approximately 50 Valley schools when the Aceyof Christmas. To all of us, it Sunday, Dec. 22, from 1 to 3 p.m. brance and celebration. Santa will arrive at the Club "The holiday season is tradi-

and cake.

Final Issue For 1963

This is the final edition the Rocketeer for 1963. Publication will be resumed on Jan. 10, 1964. A very Merry Christmas

and Happy New Year.

The Staff

Holiday Greetings From CincPacFlt Christmas will be a little Adm. U. S. G. Sharp

"One again as the holiday children enrolled in special edu- season approaches, we are re-Deucey Club hosts a special is a time of religious significance Christmas Party for them on as well as a time for remem-

via fire truck at 1 p.m. He will tionally known as a time of distribute a gift to every child Peace and good will toward men." You, the officers, men Following distribution of gifts, and women, both Navy and a work force of Club members Marine Corps, of the Pacific will serve the children ice cream Fleet have contributed in large measure toward maintaining peace throughout the world by your devotion to duty, courage, and personal sacrifice. Let us hope and pray that during the coming year all mankind will display the patience and forebearance so necessary to the development of charity and brotherhood between nations.

"To all of you, your families and loved ones, I extend my best wishes for a blessed Christmas and a peaceful and prosperous New Year." Adm. U. S. G. Sharp

OVEN ROAST BEEF



TOMATO JUICE COCKTAIL CREAM OF PEA SOUP SALTINES

ROAST YOUNG TURKEY

NATURAL BEEF GRAVY

SWEET POTATOES SUPREME SNOW FLAKE POTATOES **BUTTERED ASPARAGUS** INDIVIDUAL SALADS

CRANBERRY SAUCE

SALAD BAR RIPE AND GREEN OLIVES TEA COFFEE

> HOT PARKER HOUSE ROLLS ASSORTED BREADS

STRAWBERRY PIE FRUIT CAKE ICE CREAM MIXED CANDY MIXED NUTS

CIGARETTES



GOOD OL' ST. NICK got plenty of orders for Christmas dollies and choo-choo trains when he visited the Navy Exchange Child Care Center last Wednesday. Santa and the young-

sters had such a good time that he came back Thursday, and he'll be there today and also at the Christmas party beginning at



Holiday Message

It has been a memorable year for the NOTS family. A year of mutual achievements providing us with pride in the thought that we have contributed to the ultimate goal of peace

Our hard work and achievements gained national recognition this year through the visit of our Commander-in-Chief. We were then saddened, as was the nation, with the great loss of our leader. Our future plans must be dedicated to the ideals for which he stood.

With these thoughts in mind we wish to extend our warmest wishes for a happy holiday season, and may we enter the new year with a renewed dedication to persevere in the tasks that lie ahead

CHARLES BLENMAN, JR. Captain, USN Commander, NOTS

WM. B. McLEAN Technical Director

Unitarians Slate Yule Program Monday

The legend of the Nativity the East Wing of the All Fait will be told in readings follow- Chapel. ing a potluck dinner to be held Members planning to attend by members of the Unitarian

Fellowship of the Indian Wells the dinner are asked to call Valley at 5:30 p.m., Monday, in Elaine Howell, FR 5-2193.

Greetings From SecNav

We have once again reached that time of year when we commemorate the birth of Him whose life was so dedicated 5 p.m., Dec. 30, for reservations. to the premise of peace on earth to men of good will.

Christmas will once again find some of our sailors and marines separated from loved ones, either on cold and lonely watch- day, Dec. 22, from 5 to 7 p.m. es in the far corners of the world, or on ships at sea or in air- Don't forget to bring your child's craft on patrol. All can be proud that together we work toward gift with his or her own name that day when all men, everywhere, will live in mutual respect on it. Santa Claus will distriand understanding, when the twin ideals of Christian charity and bute the presents. the brotherhood of man will be among the guiding principles of the world, and when the future of mankind will not rest upon Santa Here Tomorrow the whim of men who profess no God.

To all members of the Navy family, in uniform and out, I offer heartiest Christmas greetings and sincere best wishes for a throughout the China Lake and happy and peaceful 1964.

Paul H. Nitze Secretary of the Navy

COM New Year's Eve Ball, Tots' Yule Party Set Ring out the old, ring in the

new, at the Commissioned Officers Mess New Year's Eve Ball! All club members and their guests will receive noisemakers. hats and favors. A buffet dinner will be served from 7 to 10 p.m. The price per person is \$3.00. Please call 72265 or 72268 by

The COM Children's Christmas Party will be held on Sun-

Don't forget, kids, Santa Claus will appear tomorrow Ridgecrest community. He'll be riding on a fire truck, distributing candy to youngsters.

ELMER PRICE tells history of chimes.

history of NOTS Pasadena An- says: nex, and its parade over the "It is believed fitting that this Leard, Jim Taylor, Phil Foster, ed the Hursts with eight grandmodern Centrex System install- gineer.

Maturango Museum.

Captain G. H. Lowe, Officer in and coffee breaks. Charge, Pasadena Annex, relates the history of the chimes "The memory of John Sandige that his chimes will live on."

ed at the Foothill Laboratory. "At the request of the Of- dreamer aspect of the man. ments and business property. On its way to the faceless ficer in Charge, in 1945 he con- "His retirement dinner was limbo of "surplus" and probable ceived, built, and installed this attended by a host of admirers cannibalism of its parts, it was charming device as well as an- and was marked by a brief fare- Scissors have more uses than retrieved in the nick of time other since dismantled, for the well salute to NOTS and an in- cutting red tape-one use being and is now on its way to China NOTS Green Street offices. The vitation to visit him at the new as a component of medical kits Lake to represent a phase of sweet tones of the chimes, rather home he was about to build in for Civil Defense. In FY 1963 Pasadena history in the than some startling sound, were Oregon with gadgets of pleasure the Defense General Supply

years of distinguished scientists unique object be preserved and and Ken Sherman, and at the children. and engineers, as the chimes identified as the John Sandige Green Street office with Louis Hurst reports the future is which ceased sounding their Memorial Chimes' in honor of Forteville. An inventive genius, well planned by his wife. Bemelody on Nov. 1st to make way the clever, brilliant, and like- John Sandige was also blessed sides spending time with the for progress in the form of the able late Cal-Tech electrical en- with a keen sense of humor and grandchildren, he will devote his

Memory Still Alive

timers at Pasadena such as Bob both married, who have providpracticality, to go with the time to managing their apart-

set to remind the dedicated em- able utility. Alas, just as the Center, Richmond, Va., purchas-In a forwarding letter to ployees of starting and ending home was completed, Mr. Sand- ed over one-half million pairs Captain Charles Blenman, Jr., of the work day, lunch periods, ige was the victim of a fatal of 4-inch picket scissors. If placheart attack.

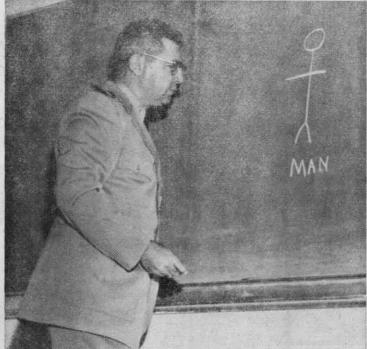
Lots of Snip ed end to end, these scissors **NOTS' Senior Medical Officer**

Sees Link-up Between Physical Sciences, Biological Research

research and the physical sci- ented in the environments of and oxygen production — have ences in which NOTS is engag- outer and inner space," he no- been extracted by biological reed (in its weapons research and ted. development programs) has been Though he has worked to a Of particular significance in envisioned by a China Lake limited degree with local scien- the areas of undersea weapons Navy physician who recently re- tists in thermal programs, Dr. and communications, is the returned from the Navy's first speaker commented that "lit- cent discovery and identification Biological Sciences Research the information of practical, long of a "sonic plume" by the Navy

Commander R. B. Speaker from our work. (MC), Senior Medical Officer

for the Naval Ordnance Test must a human be burned—as ocean's surface possesses char-



From the Blackboard to Real Solutions is a Path Punctuated with Unknown Factors, But Science Is Gaining Steadily.

ance of biological research and tated?" its applications within our NOTS programs is a natural evolution."

in capsuled form which were ence Laboratory at Brooklyn presented at the recently con- have developed a plastic simucluded Workshop, representing lant of human flesh. Utilization the findings of key research fac- of this plastic in our research

Dr. Speaker noted the rela- the required potency of our weationship which exists between a pons. number of programs conducted | Man's Deep Diving Capabilihere and those in which biolog- ties, a paper presented at the Hayes, Office of Naval Research,

Underwater Findings Told

to the underwater weapons re- obstacles and procedures which search and development pro- are being developed to grams in reporting the findings help sustain life and develop of the Navy's Applied Science man's effectiveness at these Laboratory, Brooklyn, N. Y. in depths. a study conducted by that facil- "This program has very def- Center, Johnsville, Pennsylvania. ity on Marine Fouling.

grams here at NOTS, related to ed. deep sea weapons and vehicles, will ultimately succeed or fail

Face Unknown Factors

'Rain Clouds' Lecture | Funds Okayed For By Jean Vaillant

trolled Convection" by Jean Congress has completed action Center, Pensacola, Florida.

the oldest engineering schools Congressman Harlan Hagen anin France - the well known Cen- nounced in Washington this PHYSICAL CRITERIA FOR EVALUATION OF Diego, Colifornia.

production of rain clouds, weapons.

range value has been extracted Electronic Laboratory. The com-

Station, told a Michelson Lab- a result of a NOTS produced acteristics which change abrupt-



DR. R. B. SPEAKER AND 'MAN'

"A group of biological re-He reviewed some 30 papers searchers at the Applied Sciilities throughout the Navy. can more accurately measure

ical research had been carried Workshop, revealed many facets Washington, D. C. of the unknown environment of extreme ocean depths, progress He made specific reference being made to overcome natural

inite values for our own prog- HUMAN BODY TEMPERATURE - T. H. Ben- TRANSPLANTATION - Leonard J. Cole, Ex-

Food-Air From Algae

on the basis of the environment to which they are exposed," he said.

Studies of Algae at the INAVAI vision, Naval Medical Research Institute Betwiston, N

New Propellant A technical lecture on "Formation of Rain Clouds by Con-Facility at NOTS

Vaillant, a graduate of one of pellant facility here at NOTS, Diving Unit, Woshington, D. C.

methods originally conceived by and evaluation in connection

LT, MC, USN, and E. D. Mundth, H. Dessoliers in 1908 for the with intermediate size Navy tional Naval Medical Center.

A link-up between biological | vast, unknown factors repres-, that a dual value of algae—food search scientists.

munity of sea organisms which "For instance, how severely floats at a level beneath the ly when the water is disturbed by, for example, a submerged submarine.

> "This project has rich possibilities in relation to our antisubmarine warfare programs, in addition to many related proj-

Held At Bethesda

The Workshop was held Oct. 14-18, at the Naval Medical Research Institute at Bethesda, Md., under the sponsorship of the Office of Naval Research.

ONR, pointed out that, "Too of-

acquaintances among or com-stinctive." munications with their scientific counterparts in other Navy laboratories.

"Profitable cross - fertilization of ideas and concepts is lacking.

"We trust that this is but the first of a long series of Workoratory audience that "accept- | weapon-before he is incapaci- shops designed to keep our Navy biologically (scientifically)

year's Workshop is scheduled into the ground and burst into during October at the Pensacola flames about a mile off the state of shock at first, but School of Aviation Medicine. He highway," recalled Garcia. within minutes, regained full strongly urged that local repre- "I saw Col. Yeager's para- composure." noted Garcia, addsentation be arranged at that chute land and turned my car ing that his initial concern was

Plastic Skin Developed

personnel by writing: Helen rough terrain."

CHINA LAKE'S Thomas Garcia aided in rescue of famed Col. Chuck Yeager, used pen-knife to cut flyer's flight suit.

NOTS Man was First To Aid Downed Yeager

A China Lake man called on World War II experiences in Roger D. Reid, Director of the helping rescue downed flyers last week in rushing to the aid Biological Sciences Division, of one of America's most famous aviators.

Thomas Garcia, a photograph- to pass through the speed of ten biologists working in and er attached to Propulsion Desound, was kneeled down, rubactions in aiding Air Force Colo-reached the scene. "They do not have adequate nel Chuck Yeager, were "in-

Base, the famed test pilot was left glove had also been burned, boosted NF-104 at 90,000 feet Garcia continued. when he lost control of the

"I was on m way to Los Angeles, just approaching the intersection at Highways 6 and Dr. Speaker noted that next 466 when I saw the plane dive

He said copies of papers pre- the scene. I was able to drive him across the desert floor.

velopment department, said his bing his head when Garcia

"He asked me if I had a knife. The left side of his face Based at Edwards Air Force was blackened by fire and his flying an experimental, rocket- causing the leather to shrink,"

"I carry a small pen-knife with me and was able to slice the seams of his high altitude suit, then cut the glove off

Regains Composure

off onto a dirt road leading to that Yeager's chute might drag

sented on the following topics part of the way but had to run "I determined that Col. Yeacould be obtained by scientific about a half mile because of the ger had not been injured in his ejection, but insisted that he not be moved until an Air Force (Continued on Page 8)

Asks For Knife Yeager, America's first flyer

Research Papers Available

STUDIES IN MAMMALIAN TEMPERATURE, TRY OF THE HOMOGRAFT RESPONSE — ger and C. Cologer, U. S. Naval Applied REGULATION - R. D. Sauires and F. H. Michael F. Dolan, LCDR, Medical Corps, Science Laboratory, Brooklyn, New York. Laboratory, U. S. Naval Air Development Naval Medical School, Bethesda, Maryland. CHEMICAL WOOD PRESERVATIVES IN A

"Several of our major pro- rams," Dr. Speaker emphasiz- zinger, Bio-Energetics Laboratories, Naval perimental Pathology Branch, U. S. Naval

SUPPORT SYSTEMS — Edwin Hendler, Air CAL CHEMISTRY AND CHEMICAL THERMO- nois. Crew Equipment Laboratory, Naval Air Engineering Center, Philadelphia, Pennsylvania.

DYNAMICS — T. H. Benzinger, Bio-Energetics CURRENT INVESTIGATIONS ON TRACHO-gineering Center, Philadelphia, Pennsylvania.

Laboratories, Naval Medical Research Insti-THE EQUILIBRATION FUNCTION OF THE tute, Bethesda, Maryland. VESTIBULAR SYSTEM IN RELATION TO LIN-

Vaillant was scheduled for 10 on a military construction ap
One of the control a.m. today in Conference Room propriation bill which contains CDR, MC, USN, Submarine Medical Re- Defense Laboratory, Panama City, Florida. Organic and Biological Chemistry Branch, Defense Laboratory, Panama City, Florida. A of Michelson Laboratory. \$1,268,000 for a composite pro-

MODIFIED IMMUNOLOGIC RESPONSE OF MARINE ENVIRONMENT - Harry Hochr cisco, California.

HYDROBIOLOGY EAR AND ANGULAR ACCELERATION — Fred E. Guedry, Jr., U. S. Naval School of Aviation Medicine, U. S. Naval Aviation Medical nance Test Station, Pasadena, California.

HYDRODYNAMIC PERFORMANCE OF SEA METABOLISM OF RICKETTSIAE — Emilio Weiss, Department of Microbiology, Naval Medical Research Institute, Bethesda, Mary-MARINE BIOLOGICAL ASPECTS OF MINE land. SONIC BACK SCATTERING BY SURFACE U. S. Naval Research Laboratory, Washing-Diving Unit, Washington, D. C.

ORGANISMS — T. J. Walker, Applied Oceanography Group of the Scripps Institution of NUTRITION OF CLADOSPORIUM-TYPE FUN-Oceanography, University of California, San GI WITH PURE SATURATED HYDROCARBON

tral School of Arts and Manufactures, in Paris - is a consultant on water problems.

For the past 10 years he has worked on and developed the methods originally conceived by and avaluation in connection.

THERMAL INJURY - Willard L. Derksen and The DEEP SCATTERING LAYER OFF THE Thomas I. Monahan, Naval Applied Science Laboratory, Washington, D. C.

Alformal Induced In Washington this property will be properly and the property of the past 10 years and developed the methods originally conceived by and avaluation in connection.

THE DEEP SCATTERING LAYER OFF THE CALIFORNIA COAST - Eric G. Berham, U. S. Naval Research Laboratory, Washington, D. C.

METABOLISM OF CREOSOTE BY CERTAIN MARINE MICROORGANISMS - Richard W. Drisko and thomas B. O'Neill, U. S. Naval Research Laboratory, Washington, D. C.

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METABOLISM OF CREOSOTE BY CERTAIN MARINE MICROORGANISMS - Richard W. Drisko and the facility is an advanced by the property of t

Jacobson, Aviation Medical, Acceleration U.S. Navy, Tissue Bank Department, U.S. THE BIOLOGICAL DEGRADATION OF THE PHYSIOLOGICAL REGULATION OF THE IRRIDATED HOST TO HOMOGRAFT U. S. Naval Civil Engineering Laboratory,

Medical Research Institute, Bethesda, Mary- Radiological Defense Laboratory, San Fran- OBSERVATIONS AND PROBLEMS IN AERO-BIOLOGY - Leonard J. Goldberg, Naval VIBRATION AND BIOMECHANICS - David | BIOPHYSICAL AND CHEMICAL CORRELA- Biological Laboratory, School of Public Studies of Algae at the Naval E. Goldman, CDR, MSC, USN, Biophysics Di- TIONS IN NERVE AND SYNAPTIC FUNCTION Health, University of California, Berkeley,

many useful by-products, ac- S. Naval School of Aviation Medicine, Pen- USN, U. S. Naval Medical Research Insti- MYCOPLASMAS OF THE OROPHARYNX: "The big problem facing phycording to a paper presented at sacola, Florida.

PHYSIOLOGICAL EVALUATION OF AEROthe sacola, Florida.
PHYSIOLOGICAL EVALUATION OF AEROthe sacola, Florida.
PHYSIOLOGICAL EVALUATION OF AEROthe sacola, Maryland.

PREVALENCE AND BEHAVIOR IN NAVAL PHYSIOLOGICAL EVALUATION OF AEROthe sacola, Maryland. sical scientists today are the the seminar. Dr. Speaker noted space protective equipment and life Microcalorimetry: tool of analytical Research Unit No. 4, Great Lakes, Illi-

MICROBIAL DEGRADATION OF PLASTIC A LABORATORY METHODOLOGY FOR FORMULATIONS - R. E. Klausmeier, U. S. THE BIOCHEMISTRY AND HISTOCHEMIS- STUDYING MARINE FOULING - A. Frieber- Noval Ammunition Depot, Crane, Indiana.

PROJECT THERMA

Friday, December 20, 1963

search projects at the Propul-called "THERMA." sion Development Department conducting magnet.

ly designed and fabricated su- case a rocket engine exhaust. diameter niobium-zirconium sonnel assisting Krzycki on Proj-One of the latest applied re- perconducting magnet, is an assignment from BuWeps and is projects being conducted by the There are more than ten miles Byrne Jr., assistant project en-Applied Research Branch in of wire on the magnet spool. gineer; James B. Lee, project H. Powell Jenkins Jr., who fluid control and advanced en- When this wire is cooled to very physicist; and Harold R. Shinteams the very hot with the heads the newly-formed Advanc- ergy conversion involving the low temperatures it loses all gleton, instrument specialist.

very cold when the flaming ex-ed Technology Division, told interaction of electric and mag-electrical resistence. If the magthrough the hole in a doughnut- MA will lead to a better under- ducting fluids.

haust of a rocket engine is fired this reporter that Project THER- netic fields with electrically connet power supply is suitably disshaped and "supercold" super- standing of the magneto-trans- The Branch is also actively inand fluid dynamics. The Branch is headed by Harold M. Larsen,

> Krzycki Project Engineer Leroy J. Krzycki, THERMA project engineer, said that the



ANOTHER FIRST-Harold Larsen, Head of the Applied Research Branch, discusses experiment using super-conducting magnet with H. Powell Jenkins Jr., Head of the newly-formed Advanced Technology Division of the Propulsion Dept.

WHOOSH-AND IT'S GONE!-Members of

Communications and Science Explorer Scouts

Post 684E visiting Station this week, watched

in awe as SNORT firing was demonstrated.

Oldest Public Park

Boston Common, set aside in and flowers.

The Art Gallery

CURRENT EXHIBIT, Room I 1634 as public property, ranks of the Community Center. Show as America's oldest public park. of paintings by Dolores Hoffman In 1830, the city fathers drove of China Lake. Sponsored by Krzycki check out the current off the cows and planted trees the Desert Art League. Public invited.



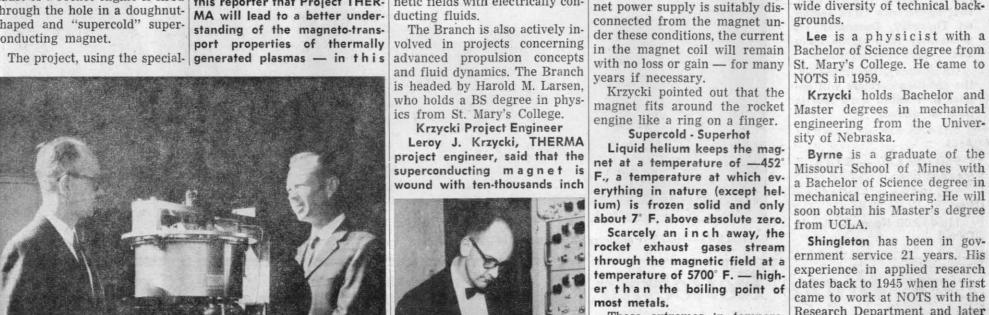
CHECK CURRENT - Harold Larsen (standing) and Leroy trace of the super-conducting

Group heard Lester Garman, head of SNORT

division, give presentation on test facilities,

following series of lectures and presentations

of programs conducted at NOTS.



These extremes in temperature are necessary to keep the magnet wire superconducting and the rocket exhaust electrically conducting, conditions necessary for the experiment.

coil and liquid helium are plac- from the exhaust of a supersoned and shielded from both the ic rocket - the first time this rocket engine and outside air has been done.

that it was the first known time applications. operating together.

Personnel Involved Applied Research Branch per- at Northwestern University.

Supercold Magnet ect THERMA are William M.

The Story of PDD's

NOTS in 1959

Krzycki holds Bachelor and magnet fits around the rocket Master degrees in mechanical engine like a ring on a finger. engineering from the University of Nebraska.

Byrne is a graduate of the Missouri School of Mines with a Bachelor of Science degree in mechanical engineering. He will soon obtain his Master's degree

from UCLA. Shingleton has been in government service 21 years. His experience in applied research dates back to 1945 when he first came to work at NOTS with the Research Department and later transferred to the Propulsion Development Department.

Wide Technical Backgrounds Branch Head Harold Larsen indicated that this wide range The tremendous insulation of technical backgrounds of problem is handled by a type of Branch personnel was a decidsuper Thermos bottle called a ing factor in proving the feas-"dewar" in which the magnet ibility of generating electricity

by vacuum and liquid nitrogen This method of producing electricity from high speed, hot Krzycki said that the magnet, gases (called magnetohydrodydesigned to NOTS specifica- namic or MHD power generations, represented one of the tion) is considered promising most advanced units of its type | both for commercial power genoperating in this country and eration and for special military

that a true rocket engine and a The work done at NOTS in superconducting magnet were rocket-MHD power generation was reported by Krzycki at a recent Gas Dynamics Symposium



CHECK FLUID LEVEL-Leroy Krzycki, THERMA project engineer, and Harold Larsen, Branch Head, check liquid helium and liquid nitrogen indicators which show level of of fluids within the "Dewar," a super Thermos bottle.