

SIDEWALK SUPERINTENDENTS at Capehart "B" site give rapt attention to painting project that is scheduled to continue through early June. All wood facings, doors and trim

work is being refinished through contracted services. Public Works officials this week expressed appreciation for cooperation extended work crews and noted work is on schedule.

Armed Forces Slate 'Ham' Contest May 16

The 15th Annual Armed Forces Day communication tests for amateur radio operators throughout the world will be held May 16 by the Military Affiliate Radio System (MARS), the Pentagon has announced.

"Ham" operators everywhere are invited to take part in demonstrations of their skill and operating proficiencies.

The one-day tests will be the only time of the year amateurs legally will be permitted to work cross-band with designated military stations.

As in the past, "hams" can qualify for the one-time only QSL card from each of the military stations.

In addition, certificates will be awarded for perfect copy of the CW and/or RATT message from the Secretary of Defense.

The QSL cards will be awarded only to licensed "hams" who establish a two-way contact with a station.

Anyone may copy the Secretary of Defense message and receive a certificate for either CW or RATT broadcasts.

The CW transmissions will be conducted in International Morse code at the rate of 25 words per minute. RATT transmissions will be at the rate of 60 words per minute. The message will be transmitted over all stations simultaneously and will be sent only once.

Last year 7386 individual contacts were made. Contestants are warned to include their name, frequency, time and call sign of their stations on the paper containing the message's test.

The message should be copied as received with no attempts at correction.

Entries must be mailed to Armed Forces Day Contest, Room 5B960, The Pentagon, Washington, D. C., postmarked not later than May 31.



COMMITTEE MEMBERS appointed to nominate a president for the "Friends of the Maturango Museum" are congratulated by museum Founder-Director Mrs. Charles Blenman Jr. at a luncheon meeting at her home. Left to right: Lilah Harman, Margaret Mack, chairman; Maxine Booty, Joan Raber and Mrs. Blenman. Committee members not present for picture are Rose Merriam and Doralee Smithson. An onyx pin was presented to Mrs. Robert Freedman, who organized the Friends of the Museum, by Mrs. Blenman.

Bridge Players Ready For Nationwide Charity Game

The China Lake unit of the American Contract Bridge League is looking forward to a 100 per cent turnout of players for the fifth Nationwide Charity Game next Friday evening, March 6, at the Community Center.

All players must be registered and in their positions for play to begin promptly at 7:30 p.m.

Entrance fee for each player is \$2.00. All proceeds are donated to the American Cancer Society and the Cerebral Palsy Association.

The games here will be played simultaneously with bridge hands throughout the United States. In addition to the Master Points Awards, there will be prizes to high scorers in each ACBL district as well as nationwide. The local unit is also offering prizes.

Albin Fojt will direct this tournament. Scoring will be tallied after each round of play so that the winners may be announced the same evening as play. An after-the-game hand

analysis (time permitting) will be an interesting item provided by the ACBL.

The new Board of the China Lake Unit for 1964 are: John Condos, Chairman; Walter Roehrs, Unit Representative; Mrs. Mary Neufeld, Secretary; Charles Lines, Treasurer, and Mrs. Janet Ewing, Hospitality and Publicity. For further information or partnerships call Mrs. Ewing at FR 5-4045.

'Porky' Marlowe at COM Dinner Dance

Don "Porky" Marlowe of "Our Gang Comedy" movie and TV fame will be featured in the Our Gang Combo at the Commissioned Officers Mess (Open) dinner dance tomorrow night.

Porky has been a guest star on the Ed Sullivan Show, the Jack Parr Show and is currently appearing on the Bob Cummings Show.

Autographed copies of "Our Gang Comedy" pictures will be available to parents who wish to take them home to the "kiddies."

No reservations are required for the dinner dance.

T-bone steak dinners with salad, French fries and beverages will be served at \$3 per, starting at 7:30 p.m. Floor show starts at 9 p.m.

Tech Writers Meet

A workshop meeting of the Sierra Panamint Chapter, Society of Technical Writers and Publishers, was held last Monday in the Sun Room of the Executive Dining Room.

President E. T. McAllister said the meeting consisted of "problem solving exercises," with those in attendance being divided into groups to present solutions to problems according to a time limit.

SHOWBOAT

FRIDAY FEB. 28

"MY SON THE HERO" (111 Min.) Pedro Armendariz, Antonella Luadi

(Adventure in Color) A riotous spoof of spectacle films and super-heros as the son of one of the Gods is sent to Thebes to punish a tyrannical king by sorcery. Action galore. (Adults and Young People).

SHORT: "Quiet Please" (7 Min.)

SATURDAY FEB. 29

MATINEE "TOY TIGER" (88 Min.) Jeff Chandler

(Adventure in Color) A riotous spoof of spectacle films and super-heros as the son of one of the Gods is sent to Thebes to punish a tyrannical king by sorcery. Action galore. (Adults and Young People).

SHORT: "Heep Big Heep" (7 Min.)

SHORT: "Capt. Video No. 6" (16 Min.)

EVENING "THE OLD DARK HORSE" (86 Min.) Tom Poston, Robert Morley

(Mystery-Comedy) Horrifying nonsense results when a salesman delivers a new car to a country estate where murder is an eccentricity of those who live there. Gog-filled. (Adults and Young People).

SHORT: "Roggedy Rug" (7 Min.)

SHORT: "Candid Mike No. 4-5" (10 Min.)

SUNDAY-MONDAY MARCH 1-2

"INCREDIBLE JOURNEY" (80 Min.) Disney Adventure

(Drama in Color) When a Siamese cat, a bull terrier and a Labrador retriever think they've been abandoned in Ontario wilds they set out for home - 200 miles away. Unusual and interesting. (Adults, Young People and Children).

SHORT: "Magoo's Checkup" (7 Min.)

SHORT: "Song of London" (20 Min.)

TUESDAY-WEDNESDAY MARCH 3-4

"WHO'S MINDING THE STORE" (90 Min.) Jerry Lewis, Jill St. John

(Comedy in Color) Fumble-fingers Jerry gets a job in the department store to be near his love-life, Jill, and chaotic destruction results. Even a vacuum cleaner goes berserk! (Adults, Young People and Children).

SHORT: "Pig's Feet" (7 Min.)

SHORT: "Bred Winners" (10 Min.)

THURSDAY-FRIDAY MARCH 5-6

"LAFAYETTE" (83 Min.) Jack Hawkins, Orson Welles, Edmund Purdom

(Adventure in Color) Brilliant, action-filled account of General George Washington's attempts to reinforce with French troops as the colonies battle the British. Huge battle scenes and vital American history are tensely interesting for all ages. (Family).

SHORT: "Adventures of a Roadrunner" (26 Min.)

Wild Flower Slides For Photo Society

A meeting of the China Lake Photographic Society is scheduled for 8 p.m., Wednesday, March 4, in the Photo Hut, 361 McIntyre.

Bob Merriam will present a series of wild flower color slides taken in the local area, and line maps showing the best wild flower displays are to be distributed.

Answer to Previous Puzzle

CROSSWORD PUZZLE

- ACROSS**
- 1-Selected
 - 6-Wading bird
 - 11-Tests
 - 12-Courtyards
 - 14-Sun god
 - 15-Name
 - 17-Performed alone
 - 18-Affirmative vote
 - 20-Fruit
 - 22-Ship's clock
 - 23-Mountain
 - 25-Ceremonies
 - 27-District
 - 28-Bivalve mollusk
 - 29-Altar screen
 - 32-Caudal appendage
 - 34-Bellow
 - 35-Warm
 - 38-Panties
 - 41-Note of scale
 - 42-Eagle's nest
 - 43-Macaw
 - 47-Strainer
 - 49-Speck
 - 50-Beer ingredient
 - 52-City in Turkey
 - 54-French article
 - 55-City of grief
 - 57-Wooden pins
 - 59-Eats
 - 60-Slaves
- DOWN**
- 1-Coloring stick
 - 2-Greeting
 - 3-Grain
 - 4-Undergarment
 - 5-Chemical compound
 - 6-Phantom
 - 7-Symbol for tantalum
 - 8-Possessive pronoun

10-City in Ohio

11-British streetcar

13-Couches

16-Den

19-Growing out of

21-King of the Jews

24-Crown

26-Scorches

29-Citrus fruit

31-Fear

32-Lassoon

35-Walk heavily

36-Harbinger

37-Told falsehood

46-Turkish regiment

48-Man's name

51-Metal

53-Beard of grain

56-Compass point

58-College degree

59-Collage degree (abbr.)

1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60

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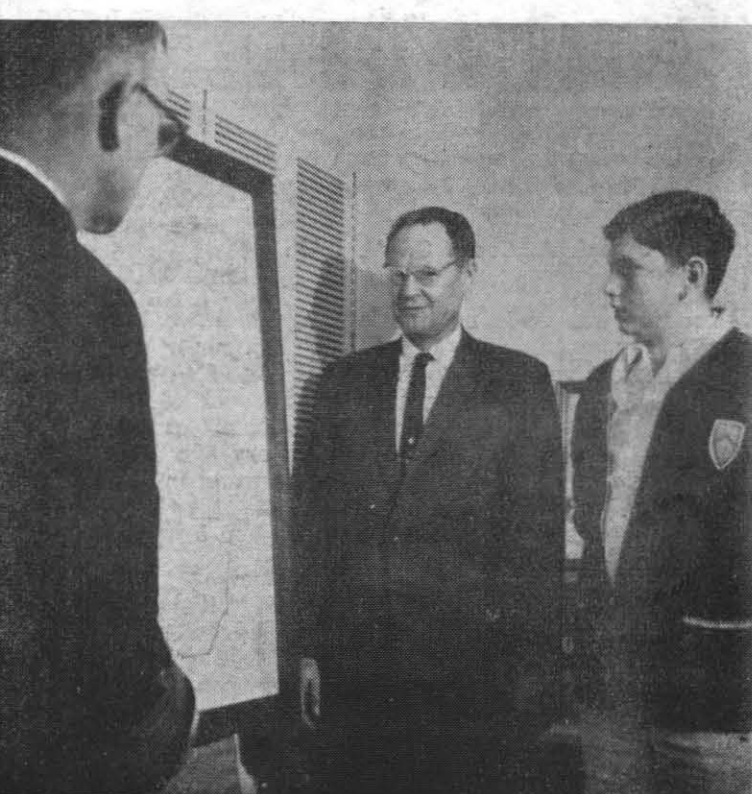
'Assignment: China Lake' On TV Sunday



"ASSIGNMENT" scenes include visit to Naval Air Facility where David met and inspected plane flown by Jim Kistler.



FLARE GUN was fired by youth during visit here.



CAPT. CHARLES BLENMAN, JR. (left) and Dr. Wm. B. McLean describe Station facilities for youth reporter D. Borelli.

NOTS China Lake gets star billing this Sunday via television station KHJ-TV (Channel 9) in an hour-long program that features the visit of young David Borelli to the Navy's largest weapons research and development facility. The 13-year-old "Youth Reporter" relates his tour of NOTS facilities in conjunction with the Station's 20th anniversary. The program, "Assignment: China Lake," will be seen locally from 10:30 to 11:30 a.m. Sunday, March 1. A "veteran" of television-radio news casting in the Los Angeles area, David toured Michelson Laboratory, the Naval Air Facility, SNORT Range, SKYTOP in addition to numerous China Lake test facilities.

Film of his visit here has been incorporated in existing footage of programs conducted by the Station. The Borelli youngster will narrate the program, describing activities of NOTS scientific and technical personnel. Designed to give an interpretive view of the contributions

NOTS has made over the past 20 years, the film also includes scenes of the late President John F. Kennedy's visit to China Lake last June. A junior high school pupil at Van Nuys, Calif., David presented youth news on the "Youth Panorama" television program weekly in 1962 and appeared as a guest newscaster on the George Putnam news show via Los Angeles station KTTV. He is regularly heard on a weekly radio program currently, "Youth Wants to Know," from Los Angeles. Station KHJ-TV officials, an affiliate of the RKO television network, are offering the program as a "Salute to China Lake."

ROCKETEER
FROM UNDER THE SEA TO THE STARS

Vol. XIX, No. 8 Naval Ordnance Test Station, China Lake, California Fri., Feb. 28, 1964

James N. Gill Named 'Bluejacket of Month'

James N. Gill, Ship's Serviceman first class, and a career Navy man who is spending his second tour of shore duty in the last 20 years at China Lake, has been named "Bluejacket of the Month" for the Naval Ordnance Test Station.

Assigned duties with the Station Commissary Store since his arrival here in mid-1962, Gill was picked from his division of 52 men for the "Bluejacket" honors.

Bakersfield Guest He'll spend this weekend at Bakersfield as a guest of that city's Chamber of Commerce, collect an armload of recognition gifts from Bakersfield merchants and have a new car furnished for his transportation while there.

Married and the father of two children, Debra, 9, and Steven, 3, Gill lives with his wife, Wilma, and family at 329 Segundo.

Gill, a native Philadelphian, entered the Navy in 1944. He considers his most unusual tour of duty in the past two decades as service aboard a survey ship attached to the Atlantic Fleet.

"We visited 88 different ports in Europe and the middle East in a two year period," he recalls today.

His only assignment to duties ashore since 1944 were at Norfolk, Va., in 1953.

Sets Good Example' Gill's division officer, Chief



NEW DUTIES HERE began this week for Lt. James F. Schumann, CEC, formerly assigned duties at U. S. Naval Training Device Center, Port Washington, N.Y. Locally, Lt. Schumann will serve as Asst. Resident Officer-in-Charge of Construction.

Armed Forces Day 'Open House' Here

Armed Forces Day - May 16 - will be observed here with an "open house," ComNOTS announced this week.

Capt. F. F. Reck, Plans and Operations Officer, has been designated Armed Forces Day Project Officer to coordinate the efforts of the Naval Ordnance Test Station and attached activities.

All departments are requested to appoint a representative to assist in planning the program. The names and phone numbers of the representatives should be forwarded to Capt. Reck, Code 14, by Monday, March 2.

State Income Tax Man Here March 3

Russell Weaver, a representative of the Bakersfield office of the State Franchise Tax Board, will visit the Station on Tuesday, March 3, to assist taxpayers in preparing their 1963 State Income Tax returns.

He will be at the Community Center between 9 a.m. and 4 p.m. on that day.

CHAPLAIN'S MESSAGE

Talks With Teenagers



By Fr. Joseph A. Costa, O.F.M. CAP.

A survey was made not too long ago to learn how teenagers regard companions as an influence in their lives. It was discovered (what you already know) that you often value your friends' opinions more than you value those of your parents or teachers.

Choose your friends wisely, therefore. If the interests of your group are good, you will be helped by belonging to it. If the interests are bad, you will be hurt.

The group you join will have much more to do with your future than you probably imagine. If you want to take a spectacular short-cut to success in your life, just remember this principle: associate with boys and girls who will help bring out the best—not the worst—of which you are able.

"Everybody does it!" But you don't have to! This point is almost equally important. You don't have to do everything your pals do. We all have our own minds and souls and so cannot excuse ourselves because "everybody's doing it."

Just because some in the crowd do not object to a suggestion that is off the beam does not mean they approve of it. They may be too timid and want somebody with some gumption to talk for them.

Navy to Use VAL For Close Ground Support Missions

Washington (AFPS)—The Navy says that its new light attack aircraft (VAL) is the best aircraft for the least money to provide close air support for conventional ground warfare missions.

The VAL is the carefully-tailored result of the Navy's call to the aircraft industry for an attack plane to meet urgent requirements for carriers to provide.

The new design is an improved version of the F-8E Crusader.

VAL will be developed to replace the Navy's A-4E Skyhawk, the current fleet attack aircraft. It will carry a greater payload and will carry a greater payload.

Navy officials said the VAL will be test flown in the spring of 1965 and will become operational in 1967.

Hit New Peak In Antarctica

Washington (AFPS)—The Navy has reached a new peak. The cold fact has been announced by Secretary of the Navy Paul H. Nitze, who revealed that U.S. Naval Support Forces in Antarctica have discovered a new mountain range there and have placed the American flag on its highest peak.

The discovery was made Feb. 10, on a Navy flight over uncharted areas of Queen Maud Land. The Navy said the 4,000 to 6,000 foot mountains are an extension of the Shackleton Range.

The discovery will help cartographers fill in vast blank spots on charts of the antarctic. Rear Adm. James R. Reedy, Commander of the Support Forces, and Lt. (j.g.) J. R. Shackleton, a distant relative of Antarctic explorer Sir Ernest H. Shackleton (1874-1922), for whom the mountain range was named, were on the discovery flight.

PROMOTIONAL OPPORTUNITIES

Supervisory Physicist, GS-12 or GS-13, \$9980, \$11,725 p/a, PD 430006, Code 3083 —Head, Evaluation and Analysis Section, Optical Instrumentation Branch, The Section evaluates and analyzes optical instruments and systems of instruments used in range testing of ordnance items, modifies or develops optical range instrumentation and investigates feasibility and potential of new or modified instruments.

File applications for above with Betty Fowler, Bldg. 34, Room 34, Phone 71514. Voucher Examiner, GS-540-5, PD 117015, Code 1753 — Position is located in the Public Voucher Branch whose major responsibilities are the process and payment of Public Vouchers, the issuance of transportation requests and Navy Meal Tickets. Incumbent serves as a senior Voucher Examiner. Three years experience required, one of which must be specialized.

File applications for above with Janet Thomas, Bldg. 34, Room 26, Phone 71648. Stock Control Clerk, (Male only), GS-5, PD 070005, Code 70191 — Varies, sorts and obtains information, by inspection, for Plant Account records on Class I and Class II property for the Station, Class III for the Dept. and for all automotive, construction, railroad, fire fighting, weight handling and material handling equipment on the Station including Pasadena and Morris Dam, SCI. Applicant must have a total of 3 years experience as follows: 2 years general office clerical experience and 1 year of specialized experience in supply.

Physicist (General), GS-1310-12/13 or Electronic Engineer GS-12/13, Code 5515 — As Head, Standards Laboratory and Electronics Inspection Branch, the incumbent directs the Station efforts on the BuWeps calibration programs in inspection and calibration of electronic test equipment, repair of instruments and the contractor liaison. Position requires a minimum of three years progressively responsible experience subsequent to receipt of degree plus specialized experience in the field of instrumentation, standardization, calibration and repair.

Inspector Machine Parts, B, Code 5512 — As trainer incumbent learns and performs moderately difficult inspections of ordnance components and assemblies during the course of manufacturing or assembly. Applicants must show two and one-half years of progressively responsible experience in machine parts inspection involving application of trade knowledge to established inspection procedures using standard measuring devices or in a trade or occupation directly involved in manufacturing, assembly or testing of machine parts.

Engineering Technician, GS-11, PD 055056, Code 5545 — Performs production and value engineering studies, engineering design work of a mechanical nature, reviews production drawings for technical adequacy, and assists in product improvement programs on ordnance being produced. Six years experience required, three of which must demonstrate progressively increasing practical experience of progressive difficulty, complexity, and responsibility that the applicant has the technical knowledge and abilities to enable him to perform (a) specialized technical duties comparable in difficulty to those of professional engineers at the same grade levels, or (b) highly specialized duties such as those requiring specialized operational and observational skills in making measurements of great difficulty.

File applications for above with Dora Childers, Bldg. 34, Room 32, Phone 71393, 72032. Deadline for filing is March 6.

'DESERT PHILOSOPHER'

Salute to Jim McGinn



By "POP" LOFINCK

Here are more "old timers." This column is to observe the 95th birthday of Jim McGinn, March 10, 1964.

He lives with his daughter, Mrs. Bessie Tyler, 72, in Argus, who came to Garlock when she was five years old. Believe it or not he reads without glasses.

He and Ed Teagle have been good friends for about 60 years.

Jim's father came from Quebec Province with his family to the United States when Jim was seven years old. They settled in Salida, California, near Modesto. His father stayed near Salida for the rest of his life.

SET ROOTS IN SALIDA

Jim went to school in Salida. He met his wife in Salida. Married when he was 21. He has a sister still living in Salida.

In 1894—when Jim was 25 years old, Garlock was beginning to boom, because of the placer gold operations and mines in the vicinity of Garlock and Goler—and the Yellow Aster streaks in the nearby Rand Mountain area.

Up to that time Garlock was known as "Cow Wells." When the place began to boom it took the more dignified name of Garlock from Gene Garlock—the biggest operator in the area.

Garlock, with enough water from wells to operate six stamp mills, was milling the rich ore from the Yellow Aster as well as other mines.

Garlock was the supply point for the area.

By chance in Bakersfield, Jim McGinn met Jerome Cheney who already had a saloon in Garlock—so they formed a partnership and opened up a well-stocked grocery store in Garlock in 1896 when Jim was 27 years old.



JIM MCGINN

MOJAVE DESERT DWELLER

Except for 3 years in Bisbee, Arizona and a few months at the El Tigra mine in Mexico he has been in the Mojave Desert almost ever since.

Nothing is permanent but change. The Yellow Aster mine drilled their own wells higher up near the lower end of Goler Gulch and piped the water to Randsburg when they built a 30-stamp mill—and afterward increased to a 100-stamp mill. And got a 28-mile railroad built from Johannesburg to Kraemer on the Santa Fe railroad to haul the ore.

So after 3 boom years—1896 to 1899—Garlock began to fade.

The construction of the ten mile water pipe line from Goler Gulch to Randsburg was no mean accomplishment. That ten miles of ditch was dug with pick and shovel without mechanical power equipment of any kind.

Garlock in its day was quite a place. The stage from Mojave took all day—it's arrival at Garlock was the highlight of the day.

MULTI-PURPOSE BUILDING

The school building was a dance hall Saturday night—a church on Sunday and town hall meeting place at other times. Steam was the power to operate the stamp mills. Fuel for the boilers was harvested sagebrush and greasewood.

Jim's brother, William A. McGinn, got his first school teaching job in Garlock. He eventually became Kern County Deputy District Attorney in Bakersfield.

Jim's daughter, Mrs. Bessie McGinn Tyler, was 5 years old when she came to Garlock—got her first two years schooling in Garlock when her Uncle William was teacher. Later, she was the first to graduate from the eighth grade in Randsburg.

His second daughter, Margaret—Mrs. Ben Roose—who lives in Argus, was born in Garlock. She may be the only living person born in Garlock.

Bessie's daughter, Mrs. Marydith Haughton, Jim's granddaughter, lives in Argus—her husband is a building contractor. And Margaret's daughter lives in Trona. They must like the desert.

Bessie says Garlock was a friendly little settlement where people helped each other.

FOLLOWS MINING BOOMS

When Garlock faded after 3 boom years, Jim closed his grocery store business and went to Coolgardie Camp—40 miles this side of Barstow, and another mining boom.

But that didn't last long so he moved to Randsburg and opened a saloon.

His kids finished their schooling in Randsburg. One amusing incident in Randsburg. Some building caught fire and they thought the whole town was going to burn down (or up?). So Jim moved the safe from his saloon to the middle of the street. If time is short probably the best thing to save from a fire is your money and legal papers!! The whole town didn't burn after all.

When Randsburg faded on account of restriction of gold mining—Jim bought a homestead in Indian Wells Valley and took a job of watchman at the Westend Chemical Company from 1922 to 1937. Then retired.

Bessie lived at Borosolvay with her mechanic husband—he became night watchman for the Trona Railroad. He died in 1941. Bessie went into the Westend Post Office—now Stauffer Chemical Company. She became Postmistress and after 19½ years retired at age 70.

IVW Junior Skiers at Onion Valley



ENJOYING A WEEKEND of skiing at Onion Valley are Fred Hulsey, Bill Lager, Earl Ferrier, Bill Fallgatter, Terrie Spargo, Mrs. Paul Driver, Karen Blaise, Mrs. Jack Hulsey, Lynn Wickenden, Mike, Murphy, and Becky Hulsey. Another out-

ing to Onion Valley is planned by the Junior Skiers this Sunday. Those interested should contact Mr. and Mrs. Paul Driver, 101 Blueridge Road, Ext. 725082. Parents who can furnish transportation are also needed.

New Ski Area Now Operating At Onion Valley

A new area for ski buffs has been opened at Onion Valley located 11 miles west of Independence in the Sierras.

It is being operated by the Robinson Basin Corporation.

Two rope tows are now in operation to the beginners and intermediate levels, the firm reports.

The road to the area has been re-routed eliminating many of the switchbacks of the old road. It has been widened and repaved.

Snow removal by the Inyo County Highway Department provides year around access to the area.

Twenty-three Junior Skiers who skied the area last weekend report excellent conditions with one to three feet of powdered snow.

Another outing at Onion Valley is planned this weekend for the Indian Wells Valley Junior Skiers, according to Mr. and Mrs. Paul Driver, counselors for the group.

RIM SHOTS

By BILL VALENTEEN



It is indeed a sad commentary on the brilliance of our international boxing image that the Louisville Lip, Cassius Marcellus Clay, has managed somehow to become the Professional Heavyweight Boxing Champion of the world.

When the new year began, I mentioned that I didn't expect too many surprises in the sports world and certainly, not by the most prolonged stretch of the imagination, would I have expected anything like this.

TSK, TSK! WHAT SOME PEOPLE SUSPECT!

As I see it, there are at least three possible reasons why Clay was able to capture the crown. First of all, there are many who suspect that the fight was fixed. But, I would be the last person in the world to make a statement like that without having the words closely associated with a "maybe." I think, however, that even if Cassius did beat him fair and square, his victory has done more to hurt the sport than any other contest I'm aware of. It seems to me that if it were fixed, that it would have been more propitious from the standpoint of the fight game and the promoters to see that Clay got pretty badly beaten.

Another possibility is that, perhaps, Sonny just decided that he'd had about enough of Clay's clowning around and just said, "the heck with everything!" or words to that effect. If you know anything about the personal life of Sonny Liston, you cannot reasonably conclude that this is not well within the realm of possibility.

The other way to go is to settle for the absurd notion that Cassius Clay is, in fact, the rightful possessor of the boxing throne and that he will be an effective, popular champion.

I can't settle for this at all. I have always been appalled at the idea that Clay was even considered as an appropriate contender. He had no more earned a shot at the title than have I. The only reason I had for being interested in this bout was because I was sure the "Lip" would finally and completely be swollen so badly that he would have a hard time working his mouth at all.

DON'T LOOK FOR A REMATCH SOON

Clay's victory will undoubtedly start a new chain of events in the boxing world, which, incidentally, is sadly lacking of interest except in some quite unusual areas. One thing you can forget about for a while, is to see a rematch between him and Liston. There was no rematch clause in the original contract and if Cassius and his backers are the smart money men I know them to be, the last thing they will do is to guild the golden lily before it has given up all its fragrance.

From this point on, until the pressure gets too hard to take, Clay will fight the "new name" guys. These are new professionals you never heard of, but who have a good following in a local area and are generally well-liked.

Rocky Marciano may come out of retirement. Joe Louis may come out of retirement. Jack Dempsey may come out of retirement!

AND WHAT ABOUT SONNY LISTON?

MUST HAVE KNOWN ABOUT SHOULDER

He certainly must have known that he had a bad shoulder before he went into the fight. Is this another case where there was so much money involved in radio and TV commitments that it seemed more propitious to carry on regardless? These are the kinds of pressures that really harm athletics.

SPORTS QUIZ

1. Eddie Arcaro rode for (a) 21 years (b) 12 years (c) 31 years; and won (d) 4,779 races (e) 5,110 races (f) 3,950 races; with total purse values of (g) \$30,039,543 (h) \$25,001,765 (i) \$36,000,001.

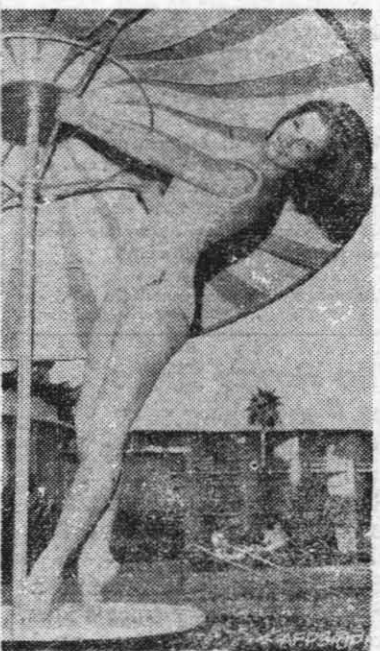
2. Who won the 1963 United States Men's Amateur Golfing Championship?

3. Who did Joey Giardello defeat to win the World's Middleweight title?

4. Who holds the United States Men's Singles Table Tennis Championship?

5. What nation holds the World's Men's Singles Table Tennis title?

- Answers to Quiz: 1. (c) 31 years; (d) 4,779 wins; (e) \$30,039,543. 2. Deane Beman of Washington, D.C. 3. Giardello defeated Dick Titus of Nigeria to win the crown. 4. Bernard Baker of New York City won the title at Detroit. 5. Chung Tseng-feng of China is the World Champion.



LOTS OF PULL — Lovely Annette Gassot, a Las Vegas dancer, tries to dismantle an umbrella at a Nevada hotel.

Little League Elects, Tells Plans for Season

Officers for the 1964 season were elected at a general meeting of the China Lake Little League Association last Wednesday at the Groves Street School. The new officials include:

President — Jim McGlothlin; Vice President A-League — Lt. Bob Dolloff; Vice President AA-League — LCDR Marv Warner; Vice President Farm and T-Ball League — Joe Adler; Treasurer — Sid Shefler; Supt., Concession Stands — Dee Ranes; Supt., Field Maintenance — George Clark; Supt., Umpires — Herb Guest; Supt., Equipment — To be filled.

A schedule of events for the coming season was adopted which included four registration nights at the Groves Street School: Monday and Tuesday March 9 and 10, and Monday and Tuesday, March 16 and 17. First and Second trout periods are set for Saturday, March 28, and Saturday, April 4 with final invitational tryouts scheduled on Saturday, April 11, 1964.

Policy Changes Told

Among policy changes adopted by the Board of Directors was the announcement of an Administration fee to be charged for all players this year. China Lake has been one of the few communities in recent years that did not utilize this source of income.

However, with the increased maintenance required of the improved plant facility and impracticability of continuing to depend solely on volunteer labor, a \$5.50 administrative fee has been adopted. This includes the following items: Insurance, equipment, umpires, administration, and hat.

Hardship Clause Included

As a part of this new policy, the Board agreed that any family with more than two boys playing would only pay for two, and that any hardship cases may be submitted to the Board of Directors in writing for consideration to waive the administrative fee. Finally, that any boy who registers after Sunday,

June 7, 1964, and who has not previously lived in the China Lake Community in the current calendar year, will be accepted at a reduced fee of \$3.50. Fees must be paid prior to participation in any scheduled tryout and/or practice sessions.

It was announced that the District Commissioner, Dr. Sal Lask from Lancaster, California, has assigned the District Tournament to be held in July to China Lake.

Engineers Told...

(Continued from Page 4) ground on which it was built to fail.

He also noted that the proposed site of the nuclear plant site at Bodega Bay was near a geological fault. The controversy of the location of the plant at Bodega has attracted nationwide attention.

The banquet which honored engineers of the area was sponsored by the Station and seven of the Station's professional organizations.

H. G. Wilson, NOTS Assoc. Technical Director, served as master of ceremonies for the event while Eli Zeitlin headed up the banquet committee.

Out of town guests were Jack Vaughan, president of the Desert Empire Chapter of CSPE, Edwards AFB; N. V. Petersen, AFFTC technical director at Edwards AFB; Dr. D. S. Arnold and R. S. Sunderlin, Trona; Jack Wiseman, West End; and Andy Bela, Boron.

Tennis, Anyone?

There will be a meeting of the China Lake Tennis Club on the Station tennis courts tomorrow at 9:30 a.m. Plans for the forthcoming tournament will be discussed. Everyone interested in the game is encouraged to attend. Contact Cdr. Stan Abele on Ext. 8464.

DIVINE SERVICES

- Christian Science (Chapel Annex) Morning Service—11 a.m. Sunday School—11 a.m. Protestants (All Faith Chapel) Morning Worship—8:30 and 11 a.m. Sunday School—9:30 a.m., Groves and Richmond elementary schools. Roman Catholic (All Faith Chapel) Holy Mass—7, 9:30 a.m., and 5:30 p.m. Sunday. 6 a.m. Monday through Friday, 8:30 a.m. Saturday. 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 Chapel) (Feb.) First and fourth Friday, 8:15 p.m. (March) Second and fourth Friday, 8:15 p.m. Sabbath School every Saturday morning. Unitarian Fellowship (Parish Hall) Fellowship Meeting — Sundays, 7:30 a.m. Sunday School — 9:30 a.m.

The Rocketeer

Official Weekly Publication of the U. S. Naval Ordnance Test Station—China Lake, California. Captain Charles Blenman, Jr., USN Station Commander. "J." Bibby Public Information Office. Jack G. Broward Editorial Advisor. Richard Grunenberg Editor. Budd Gatt Associate Editor. Frederick L. Richards Special Assignments. DEADLINES: News Stories — Tues., 4:30 p.m. Photographs — Tues., 11:30 a.m. Rocketeer receives Armed Forces Press Service material. All are official U. S. Navy notes unless otherwise identified. Printed weekly with appropriated funds in compliance with NavExes P-35, Revised July 1950. Office: 50 King St., Bldg. 00929, Phone — 71354, 71655, 72082

Sailor of the Month



Selected as Sailor of the Month for February is Bobby Lee Cline, EM2 from the Long Beach facility of NOTS, Pasadena. Cline has been a member of the second or engineering division since reporting here in September 1962. His duty just previous to NOTS was aboard the USS CORAL SEA (CVA 43).



CONGRATULATIONS from Capt. G. H. Lowe are received by Miles Hamilton (l) as D. J. Wilcox looks on at award ceremonies.

M. Hamilton Wins Patent Award

An idea that was instrumental in hastening the ASROC missile to the launching pad paid off in a patent award this week for Miles Hamilton, General Engineer. In 1956, Miles conceived the idea for a thrust cutoff for ASROC that permits termination of thrust at any pre-determined time. Previous efforts to do this threatened to cause collapse of the airframe between the rocket and the torpedo. Miles retired Oct. 30, 1963, from the Weapons Branch UOD but has returned temporarily to complete a report on Fuel Cell



HONORED for 20 years federal service are (l-r center) Bernie Pennino and Doug Shaw. D. J. Wilcox and Capt. G. H. Lowe congratulate the pair. Also honored for service at NOTS were Bob Gratton who received a 10 year pin and Cole Watson, 5 years.

NOTS Pasadena

VIRGINIA E. LIBBY — EXT. 638

Helicopter Drops at Morris Dam

Added to Morris Dam recently is a new sound — the buzz of helicopters.

Furnished by the Naval Air Station, Los Alamitos, the SH 34-J birds are participating in a feasibility study of helicopter drops of torpedoes.

The drops are being made to study the structure of torpedoes and flight accessories such as stabilizers and parachute equipment.

The drops are photographically covered by Fairchild tracking cameras located on the hillsides. The torpedoes utilize a bubbler system. Nots divers make recovery.

The helicopters land on a pontoon boat dock at Morris Dam where the torpedo and communications equipment are loaded aboard, with the drops being made at the north end of the Morris Dam reservoir.

Conducted by members of the Ballistic Range Section, under the direction of Robert Larson, the current feasibility study and other future tests at Morris Dam will increase the flexibility of development work on present and future torpedo programs.



BIG BIRD hovers over landing area on boat docks at MD.

Twenty Years

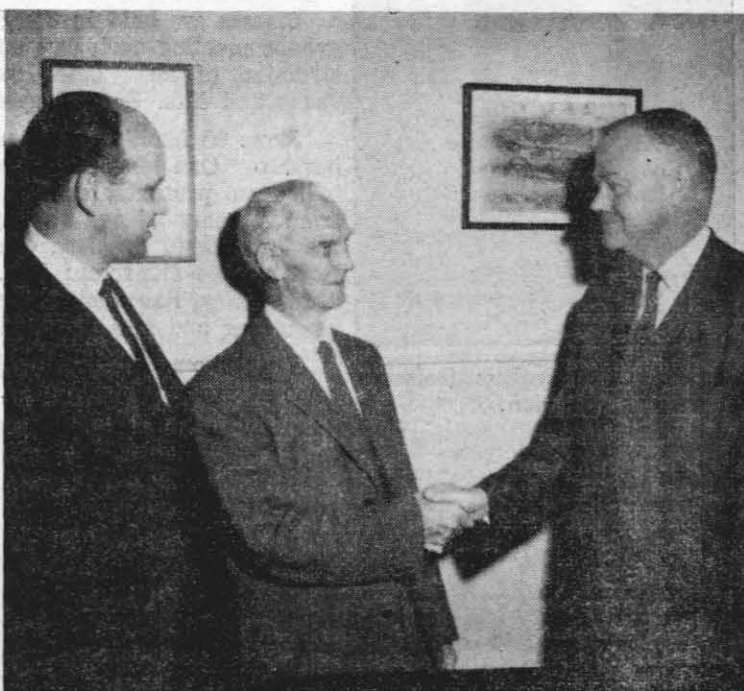
Systems Operations Division of UOD recently honored two members of the Range Branch, Douglas N. Shaw and Bernard Pennino, for completing 20 years of federal service.

Doug Shaw, Ordnance Technician Supervisor, is head of the Ordnance Section involved with weapon testing and evaluation, missile assembly and range engineering. Doug has been with NOTS 14 years during which time he has garnered two Sustained Superior Performance Awards and an outstanding rating.

His first introduction to civilian federal service was at Pt. Mugu from 1946 to 1950. During WWII he served with the U. S. Navy from 1942 to 1946.

Bernie Pennino is an Electronic Mechanic, whose work consists of testing and developing all types of torpedoes and rockets.

Bernie's federal service began in the military with the Coast Artillery during WWII. He has been with NOTS for nearly 18 years. He has several Beneficial Suggestions to his credit.



J. P. CAMPBELL, recent chairman of the Technical Lecture Sub-Committee of the Employee Development Committee, and A. J. Tickner, Head of the Guidance and Control Division, welcome Dr. A. B. Wood (center) as he arrived to present a Technical Lecture at NOTS Pasadena.

Dr. Wood Hosted Here

(Editor's Note: We are indebted to A. J. Tickner, Head, Guidance and Control Division, for the following information on Dr. A. B. Wood.)

One of the first physicists to work on the problem of anti-submarine warfare back in World War I, recently presented a lecture at NOTS Pasadena, on Experience in Underwater Acoustics.

Dr. Albert Beaumont Wood, presently Consultant, Scientific and Engineering Staff, Navy Electronics Laboratory, San Diego, graduated from Manchester University, England, in 1912 and later received a Doctor of Science degree from the same university.

Dr. Wood made some of the first actual measurements in underwater sound when this field was in a very primitive state. These look simple by present day standards but they were great advances in their time.

He was for many years Superintendent of the Admiralty Research Lab at Teddington and when he retired for a short period in 1950, he was Deputy Director of Research for the

British Admiralty. Since then he has been active in the difficult field of acoustic behavior in shallow water and is spending a year in this country in his present position.

One of his more exciting experiences was his disarming of the first German magnetic mines recovered in 1939 in the Thames estuary. No one was certain just what was in the mine and when it might explode as it was being disarmed.

Several high ranking military personnel were gathered at a distance to watch and Dr. Wood wondered about their safety. As he put it, "it appeared that if the mine exploded they might have to advertise for admirals."

Dr. Wood's book, "A Textbook of Sound," written in 1930 is still in print. In 1961 the Acoustical Society of America conferred their Pioneers in Underwater Acoustics Award on Dr. Wood. It had been given only once before and has been given only once since.

W. J. 'Bill' Baker Heads New Supply Department Division

W. J. "Bill" Baker brings to NOTS 13 years of experience in the field of contract administration and procurement as he heads up the Supply Department's new Procurement Management Division, Code 252.

Baker reported for duty on Monday, Feb. 17, coming from Norton Air Force Base, San Bernardino, where he was a Contract Negotiator for the Ballistics Systems Division. In that capacity, he was engaged primarily in contract negotiations and contract administration for multi-million dollar procurement actions in support of the Titan II weapons system.

Prior to that, Baker was associated with Rohr Corporation, Chula Vista and Riverside, as Project Contract Administrator. His responsibilities included negotiation and administration of contracts for major structural assemblies and other R&D items for the Navy and Air Force.

Michelson Lab Office As Head of the Procurement Management Division, Baker re-



W. J. (BILL) BAKER

ports to Captain B. L. McCreery, Director of Supply. This Division will be located at China Lake in Room 210, Michelson Laboratory. For actions in excess of

\$10,000, Code 252 will provide consultant service in procurement matters; assist Station personnel in developing procurement data required by the Regulations; provide pre-procurement liaison between Station personnel, NPOLA and private industry; participate in the review of contract proposals and in the contract negotiation phase; administer contracts by monitoring the business and overall performance aspects, and by providing contractual interpretation of contracts where major projects are involved, the Division will provide project team members for the procurement management aspect.

Native of Illinois Baker holds a BS degree in Industrial Economics from Iowa State University, Ames, Iowa, and is a member of the National Association of Professional Contract Administrators. A native of Illinois, he served in the Navy during World War II. Bill is a member of Toastmasters International, and his wife, Connee, is a Toastmistress. The Bakers have two children, Kelly William (age 10 - a Little League hopeful) and Sherri Dianne, age 20 months.

Warn Against Illegal Entry To Range Areas

Numerous recent dangerous and illegal entries to the NOTS range areas have been brought to the Security Department's attention.

All China Lake residents are reminded that travel on and about the range areas is prohibited except in the performance of official duties or with a bonafide "Recreation Pass" issued by the Security Department.

Persons desiring to visit outlying parts of the NOTS ranges for recreation purposes must secure permission from the Police Division of the Security Department.

The Recreation Pass system was established for the purpose of providing for the safety of recreationists, a responsibility belonging to any property owner. This system enables Code 843 to determine when it is safe to enter certain areas; advise users of specific hazards and necessary safeguards, and by copy of the recreation pass, be able to provide expeditious aid in emergencies.

LCdr. Place Helps In Rescue of Boy Who Fell 60 Feet

Quick first aid action by LCdr. W. M. Place, NOTS Pasadena Technical Officer (Acting), and his son, David, 16, may have saved the life of another 16-year-old boy who fell from a 60-foot cliff in Angeles National Forest last Sunday.

Cdr. Place saw the youth Tim Heaton of Alhambra, topple from the top of Sturdevant Falls in Santa Anita Canyon. While David ran for help at a U. S. Forest Ranger station, Cdr. Place went to the scene of the accident and administered first aid.

He removed Heaton from several inches of water and kept the victim covered until members of the Sierra Madre Search and Rescue Team and Rangers arrived to rush the victim to a



LCDR. W. M. PLACE

hospital. Late reports said Tim was still in critical condition from severe head and back injuries. The Heaton boy was with one group of hikers, and Cdr. Place was leading another group of hikers.



DELANO SMALL BUSINESS representatives Winsloe S. Mata, Danny Forondo, Al Espinosa, George Kouken, and Sakushi Kubota confer with LeRoy Jackson (standing), Head of the Community Relations Office, during visit to the Station last week.

Professional Recognition Awards Program Open to Engineers and Scientists

Up to one year of advanced study is available to Station field engineers and scientists under the Professional Recognition Award program now in its second year here at China Lake.

The program is open to all engineers and scientists who have between three and eight years of government experience and are in grade GS-13 and lower.

Instruction Cited Conducted in accordance with BuWeps Instruction 12410.19, issued Feb. 7, 1964, candidates nominated for this advanced study would remain on full salary while enrolled in the program.

They are required to accept the training agreement which obligates them to remain in Navy employment for a period equal to three times the length of the study program in which they are enrolled.

Candidates Screened Locally Candidates are to be selected locally on a basis of their work accomplishments, according to the Instruction. Technical qual-

ifications and demonstrated capabilities for administrative and management duties will be considered in the selection of candidates.

A schedule governing this year's program calls for Stations to submit names of nominees by Mar. 9, with Bureau of Weapons announcement of those selected in early April. Successful candidates may apply for admission to the college of their choice during April.

Additional information of this program will be provided by personnel management assistants on request.

Social Security Rep. The Social Security representative will be at the Community Center on Wed., March 4, between the hours of 8:30 a.m. and 11:30 a.m.

KNOW YOUR MISSILES

POLARIS

POLARIS WAS PRIMARILY DESIGNED TO BE LAUNCHED AS A RETALIATORY WEAPON FROM SUBMARINES. IT MAY BE FIRED WHILE THE SUBMARINE IS EITHER SURFACED OR SUBMERGED. THE FLEET BALLISTIC MISSILE WEAPON SYSTEM



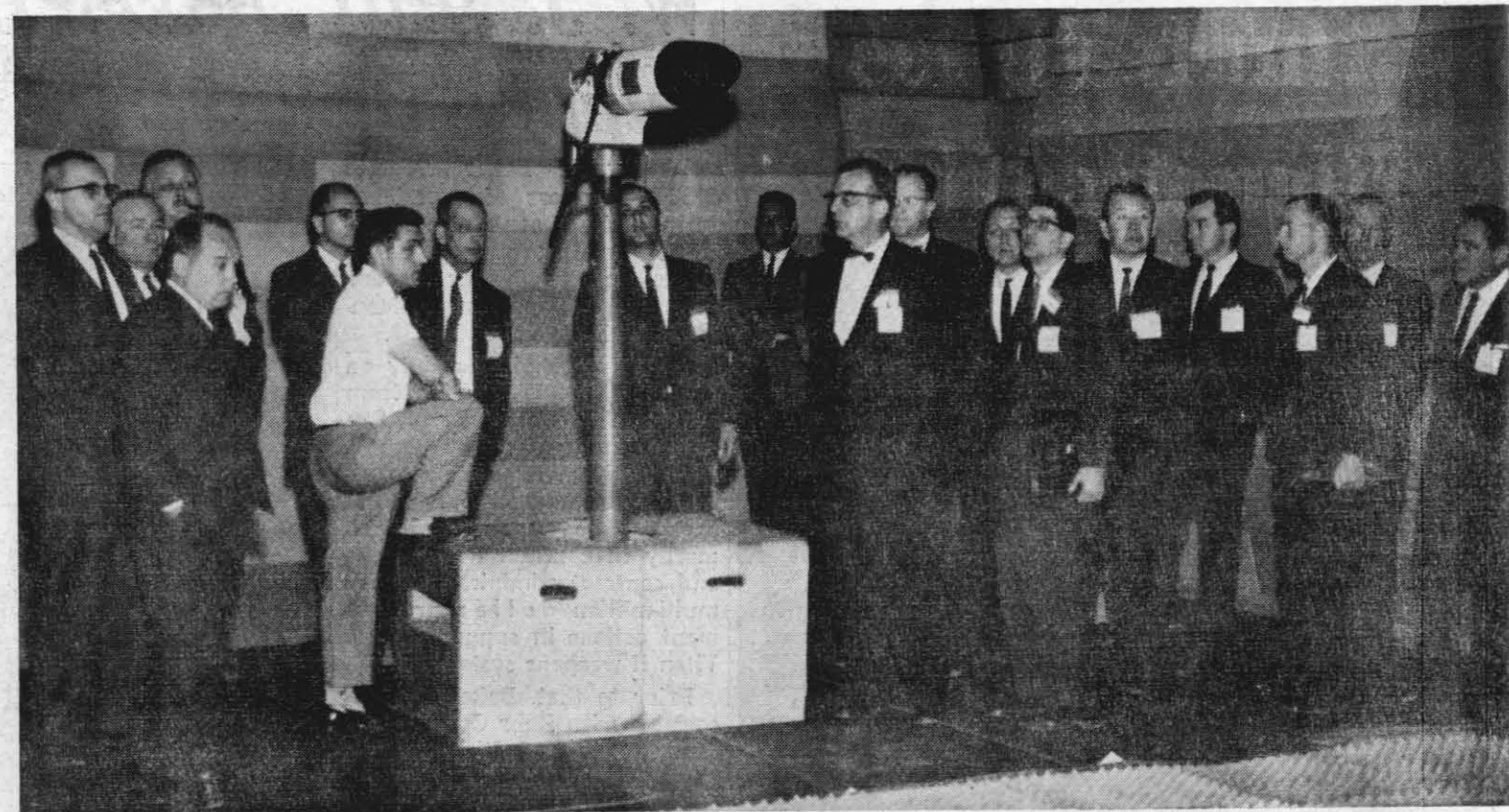
INCLUDES THE MISSILE ITSELF, NUCLEAR-POWERED MISSILE-LAUNCHING SUBMARINE, SUPPORT FACILITY AND TRAINED PERSONNEL. EACH SUBMARINE CAN CARRY SIXTEEN POLARIS MISSILES, AND CAN LAUNCH THEM IN AS MANY MINUTES.

Engineers Told: 'Project the True Image to Public'

Robert Kripp, vice president of the California Society of Professional Engineers, urged the 120 engineers in attendance at the "Engineering Week" banquet last week to "project the true image of engineering to the public."

"It's a profession resplendent with contributions to the past and offers even a greater challenge in today's broad spectrum of technology," he told the engineers.

Kripp urged the individual engineer to take a more active part in his community affairs and assume greater leadership in attracting qualified and prop-



NOTS' UNIQUE ANECHOIC CHAMBER is explained by Joe Francis to members of the Electronics Equipment Technical Committee of the Aerospace Industries Association of America during tour of Station. Group held its winter meet here.

why I chose the Navy," he said. St. Amand Speaker

Also, sharing the speaker's platform was Dr. Pierre St. Amand, Head of the Earth, Planetary Sciences Division, who presented an hour long slide illustrated talk on the history of earthquakes, the Baldwin Hills Dam disaster, and the proposed



DR. PIERRE ST. AMAND ... Baldwin Hills Disaster

atomic power plant site at Bodega Bay.

St. Amand cited the cause of the Baldwin Hills disaster was not due to dam design but because it was located over a geological fault. The fault shifted

and water seepage caused the received \$104 a month. That's

(Continued on Page 11)

Electronics Execs of AIAA Briefed on NOTS Projects

Twenty electronic engineering executives from the nation's aerospace industries engaged in the manufacturing of defense electronic systems will carry word of NOTS' work in the electronics field when they return to their respective firms following a two-day meet here.

The Station was host to the group as they convened here for the meet on Tuesday and Wednesday. The group are representatives of major electronics systems manufacturers who belong to the Aerospace Industries Association of America, Inc.

They comprise the Electronics Equipment Technical Committee of AIAA. The Committee provides a channel for exchange of information and recommendations between industry and government agencies relative to the ever-expanding field of electronics.

Provide Channel

The Committee was formed 12 years ago to accelerate the improvement of electronic equipment and systems in aircraft, missiles, spacecraft, and their associated ground checkout, control, and detection systems.

Field Trips Valuable Visits to military installations, such as NOTS, provide valuable field operational background for committee members when they return to their respective firms.

Field visits have also helped to solve mutual operational problems encountered by various installations.

A welcome and briefing on NOTS technical programs by Captain Jack W. Hough, acting Station Commander, on Tuesday prefaced a tour of Station facilities and presentations by Station personnel for the visitors on Wednesday.

While here the visitors were briefed on NOTS Service Weapons Fire Control Program by Fred Ashbrook, Head of the Test Department's Instrument Development Division. In addition they witnessed a demonstration of a digital range unit and a digital-analogue servo system.

Visit Anechoic Chamber

Highlight of the tour for the visitors was a visit to NOTS' unique Anechoic Chamber, a room free of echoes, which is used for the testing of the guidance section of the Shrike missile.

The visitors were briefed on the functions of the Chamber by Joe Francis.

Weapons Development Department's Roger C. Wickenden demonstrated for the visitors the ability of a blindfolded human to recognize the source of sound.

Attendees in addition to Cooper and Houston were the following:

J. C. Sampson, Aero-jet-General Corp.; F. C. Shadley, Avco Corp.; Charles Janoff, Bell Aerospace Systems Co.; R. R. Waters, Douglas Aircraft; W. C. Cleveland, Aeronutronic Div. of Ford Motor Co.

Frederick C. Corey and G. F. Kasson, Northrup-Nortronics; Frank A. Glassow, Hamilton Standard Div.; E. H. Schaefer, Autonetics, N. American Aviation; C. D. Jeffcoat, Westinghouse Electric Corp., and G. R. Hokenstad, Hughes Aircraft.



ROBERT KRIPP, PE ... challenges engineers

erly motivated young people to the profession.

Citing the American Medical Association and the American Bar Association as examples of unity of professions Kripp challenged the engineers to achieve the same unity for their profession by joining and supporting the National Society of Professional Engineers.

Contrast

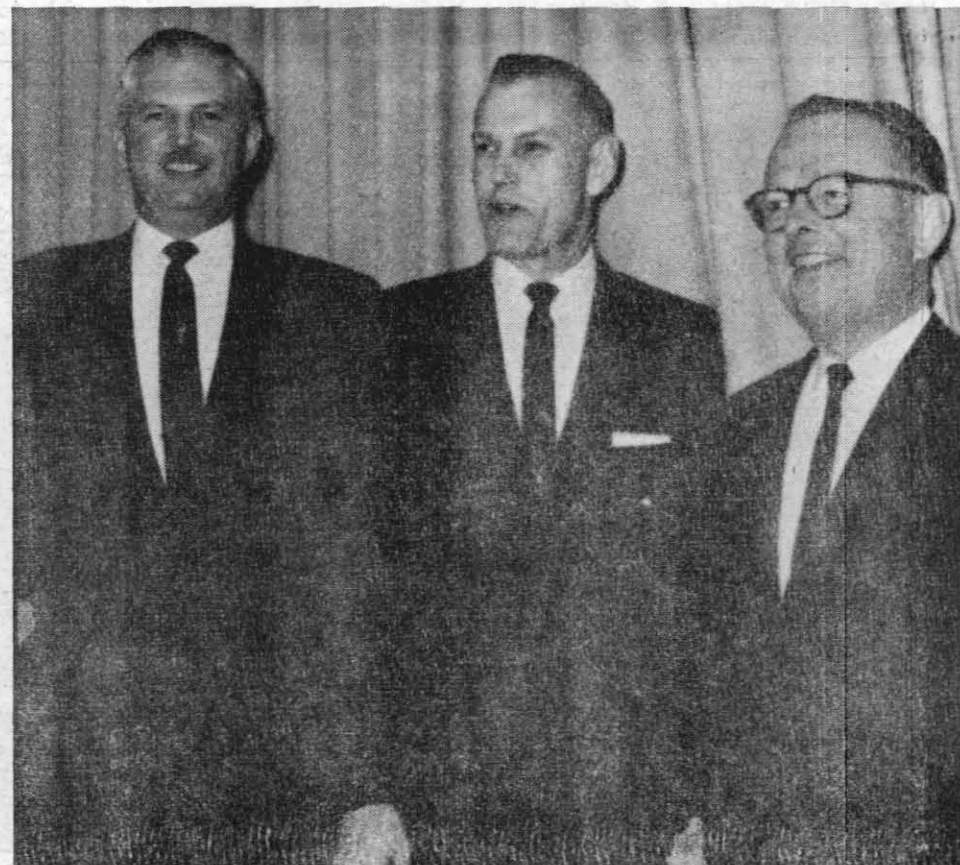
Contrast of today's broad spectrum of engineering as compared to the 1930s was made by Station Commander Capt. Charles Blenman in welcoming the engineers.

Degrees were granted in only two engineering fields at the Naval Academy at that time.

"Mining engineers were being paid \$110 per month. Ensigns received \$104 a month. That's



COMMITTEE MEMBERS Eli Zeitlin, chairman, Stan Mutchler, Rosemary Whitman, A. T. (Temp) Robinson, and Pat Rooney of Trona make last minute check of program for "Engineering Week" banquet. Event was sponsored by Station and local societies to salute engineers.



HOLDING CONFERENCE prior to banquet are Jack Vaughan, president Desert Empire Chapter, California Society of Professional Engineers; Frank Knemeyer, president American Institute of Aeronautics and Astronautics; and John Cox, president of ASCE.

Ballet - It's Fun And Educational!



Mrs. Bachinski demonstrates a croisse' quatrieme position to some youngsters learning the ballet here.



Learning some of the various arm and posing attitudes.



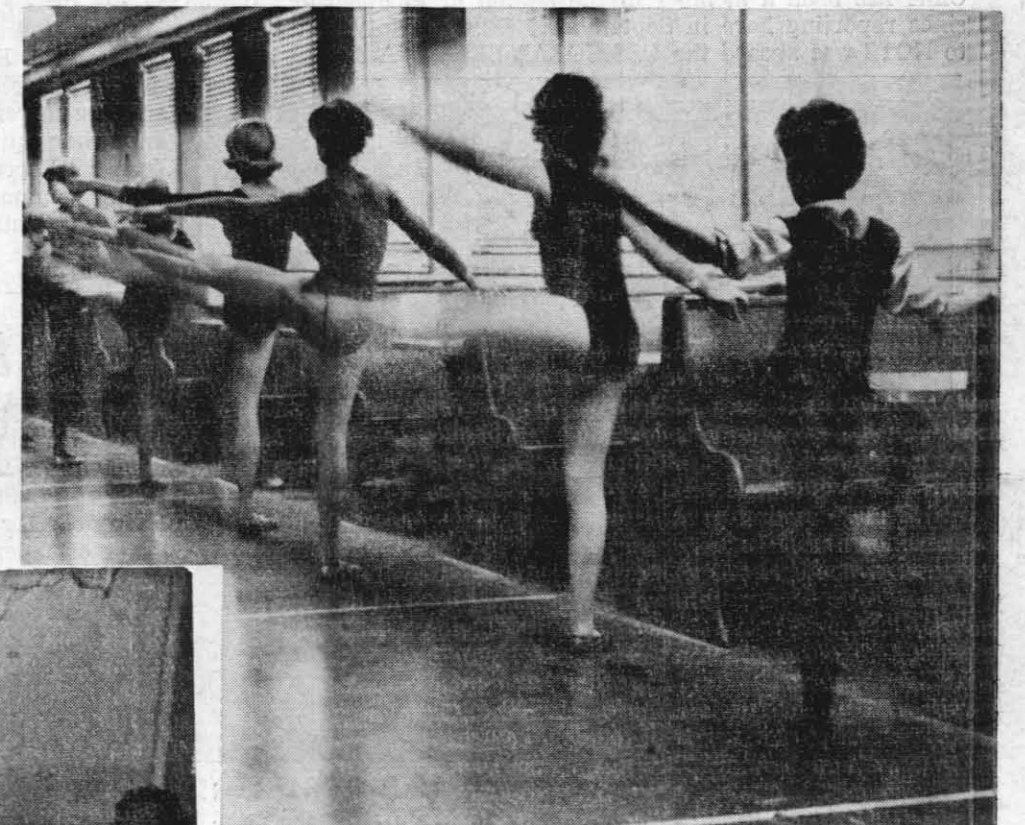
Student in a releve (raised) position.

The object of the China Lake Ballet Society is to further the cultural and social heritage of the children of this community by providing them with the opportunity to learn the art of the classical ballet. Students learn rhythm, poise, coordination, posture and control as well as enjoy a good exposure to fine music and technique.

Classes are held in the Recreation Hut with groups meeting each day under the capable instruction of Mrs. Jane Bachinski, Mrs. Betty Jacks and Mrs. Carol Mayer.

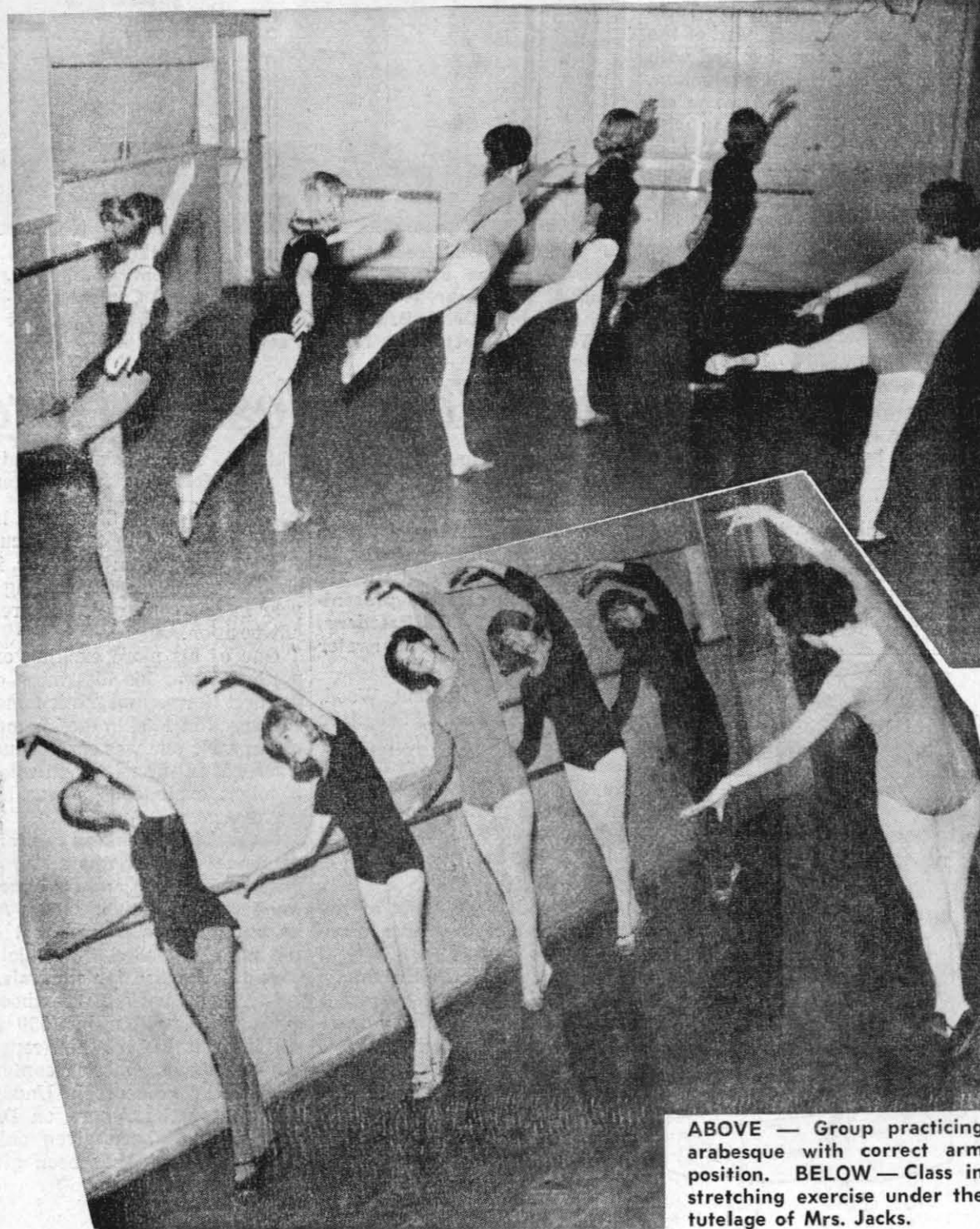
Some 95 families make up the Society membership. One hundred twenty students of the ballet are presently enrolled and range in age from 4 years of age through teens. Officers are Mrs. Helen Breslow, chairman; Mrs. Gladys Hollon, vice chairman; Mrs. Hazel Kruse, secretary; Mrs. Rae Blaise, treasurer. Mrs. Tina Knemeyer and Mrs. Mabel Phipps are advisors.

Yearly competition is held to determine scholarship winners each spring.

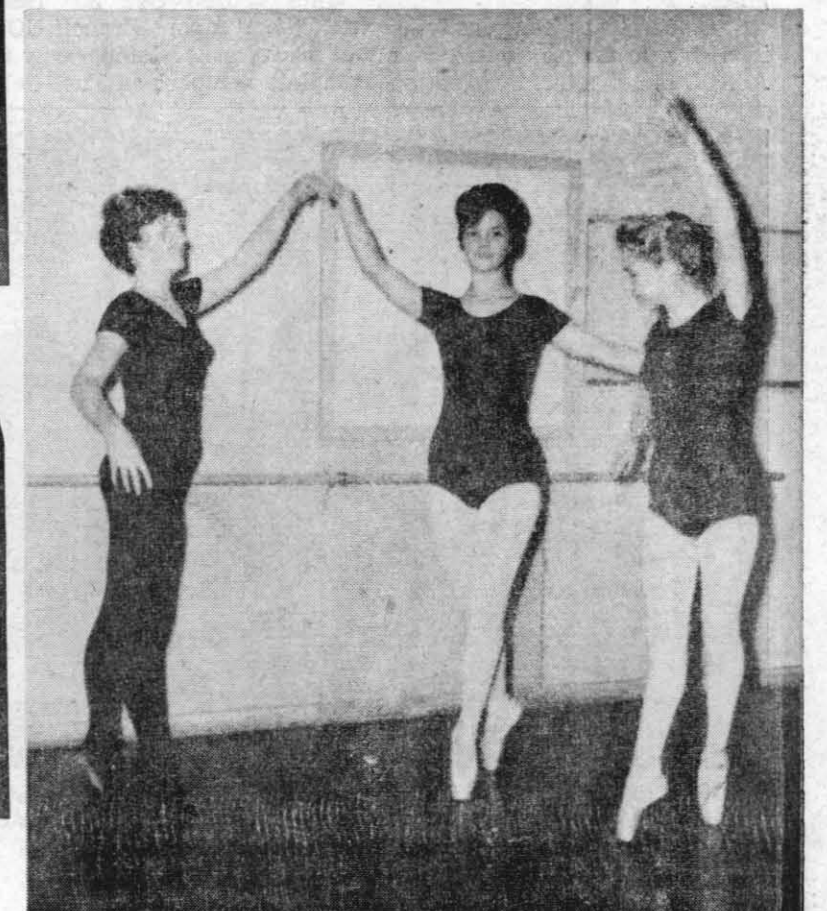


Group in barre workout at the Recreation Hut.

'On Pointe'

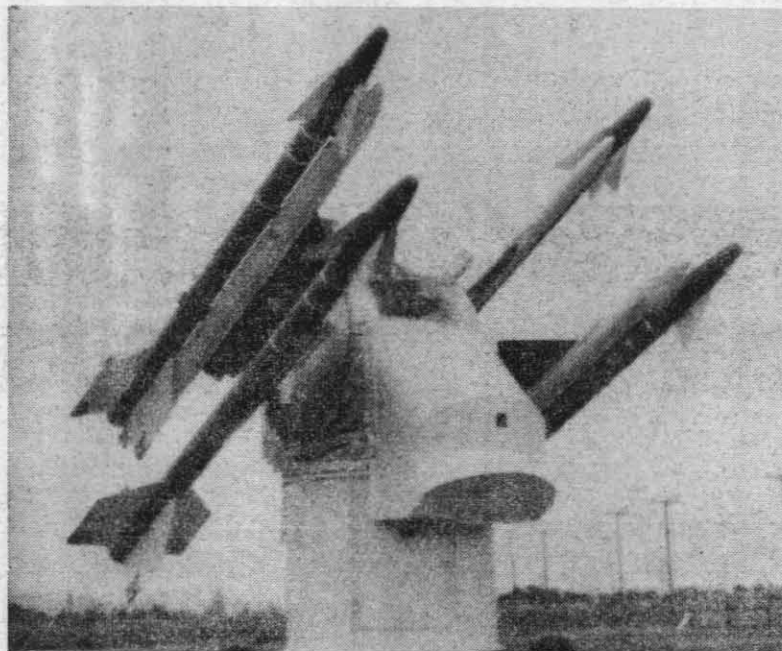


ABOVE - Group practicing arabesque with correct arm position. BELOW - Class in stretching exercise under the tutelage of Mrs. Jacks.

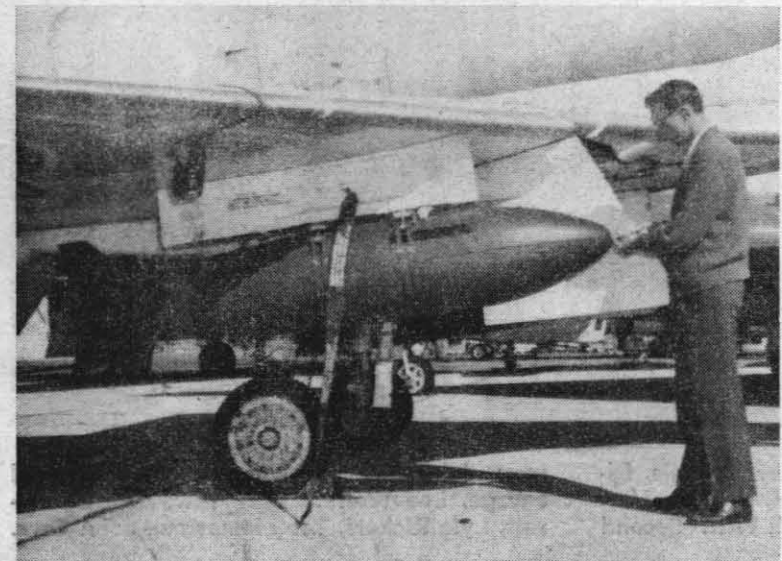


Mrs. Mayer demonstrates the on pointe fourth position.

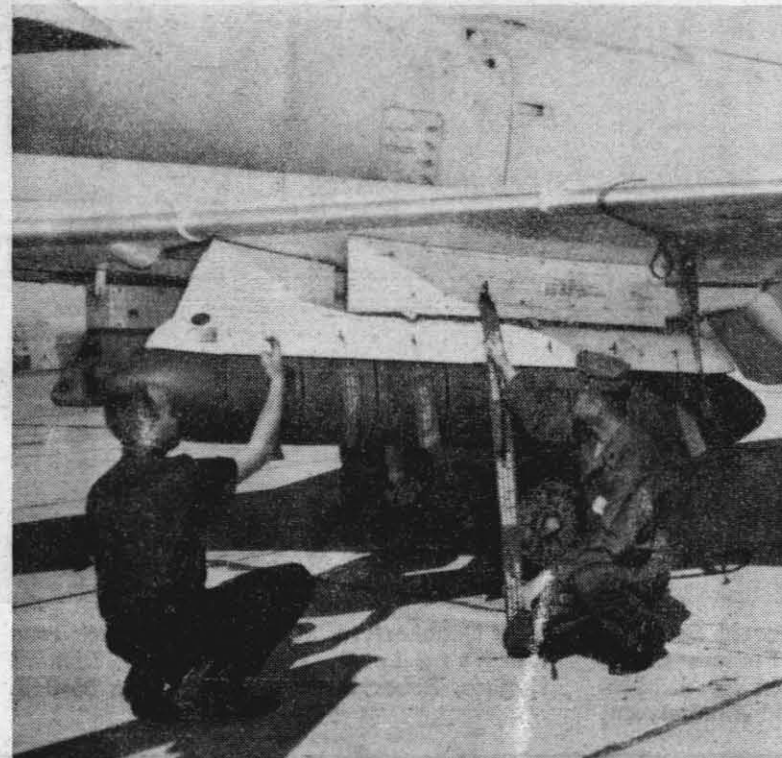
Some Key Projects Of the Department



PROJECT CHAPARRAL—Modified M-45 mount carries four Chaparral surface-to-air missiles designed to protect small ships. The system is comprised of "off-the-shelf" items, and thus is low cost but reliable.



SADEYE, one of the Free-Fall weapons, is inspected by Project Engineer Jimmie Craig prior to take-off.



GLADEYE weapon is prepared for flight testing by Dennis Glendenning, Project Engineer, and Sgt. Ted Skill.



THE SHRIKE missile is mounted aboard an AF-1E aircraft.

Military Personnel Attached to Code 40



FRONT ROW (l-r): Cdr. Atlee N. Clapp USN (Code 4007), Technical Officer; Lt. George E. Pierce USN (Code 4037), Explosive Ordnance Demolition team; Cdr. Robert T. Hoppe USN (Code 4006), SHRIKE Project Officer; Chief James N. Shriver, BMCR, USN (Code 4037), Explosive Ordnance Demolition team. Second row (l-r): Jimmie D. Baxter BM2 USN (Code 4037), Chief Charles L. Wilson USN (Code 4037), Chief Dale E. Waste USN (Code 4037), all of Explosive Ordnance Demolition team. Third row (l-r): Donald L. Chmura MN1 USN (Code 4037), Explosive Ordnance Demolition team; MSgt. Jesse J. Green USMC (Code 4022), Assembly crew; GSgt. William E. Welch USMC (Code 4022), Aircraft Installation; Sgt. Theodore F. Skill USMC (Code 4031), Military technician.

Coordination Leads to Goals

(Continued from Page 5) Development divisions in Code Forty are: The Guided Missile Division (Code 402), headed by George F. Cleary; the Air-to-Surface Weapons Division (Code 403), headed by Dr. Marguerite M. Rogers; and the Air-to-Air Weapons Division (Code 405), under Charles P. Smith.

Other divisions of Code Forty include the Technical Services Division (Code 401), headed by Earl G. Loomis, and providing vital technical services to all the project teams.

The Aeromechanics Division (Code 406), headed by Leroy Riggs, provides engineering and analytical services to the department and the Station. This division also manages the effort on the department's most extensive feasibility study, the MORAY (manned deep-diving submersible) program.

The newly created Astrometrics Division (Code 404) is under direction of Donald K. Moore, formerly the head of the Special Projects Branch (Code 4052). This division is carrying out exploratory research and development in inertial guidance, servomechanisms, space probes, and astrometrics.

A "Board of Directors" consisting of Department Head Knemeyer; Associate Department Head, Harold Metcalf; Assistant Department Head, Richard T. Carlisle; Head of Staff, Eldon Williams; and the division heads, meet together as a management group. Metcalf said the group establishes overall department goals and objectives, coordinating both technical and management areas.

The assigned mission of the Weapons Development Department is to "conduct applied research and development of guided missiles, explosive devices, free-fall weapons, space probes, and other assigned programs."

This includes the management of "all work performed on Station or by other laboratories or production units of government or industry for the successful development and induction into use of the weapons systems assigned."

The major development programs currently under the leadership of Code Forty are Shrike; the Free-Fall weapons Rockeye, Gladeye, Snakeye, Weteye, Bigeye, and Sadeye. Also, the concluding effort on Sidewinder 1C (IRAH), program direction being recently transferred to the Engineering Department.

evaluation of the infrared missile began in March, 1963, is scheduled to end this spring. Particular skills available in Code Forty are presently supporting major development programs of two other Station departments. The Walleye warhead and the servo (control) system are being developed for the Aviation Ordnance Department.

Also, support is being given the Propulsion Development Department in the development of the Bombardment Rocket warhead and the HRS guidance system.

Applied Research Applied research programs under cognizance of the Weapons Development Department include the Warhead Supporting Research and Biological/Chemical Supporting Research programs.

The HITAB program for the Advanced Research Projects Agency; Infrared Guidance Research and Countermeasures programs; and the Free-Fall weapons Marceye and Briteye are also undergoing exploratory research.

Sharing Commendations During the past year many commendations and letters of appreciation were received by the Weapons Development Department and its people for accomplishments in carrying out assigned programs. Members of the department's board of directors emphasized the fact that these commendations deserve to be shared Station-wide by the many persons involved in every Code Forty program.

Without the efforts of personnel from each and every department at China Lake and Pasadena, the programs assigned to Code Forty's direction could not possibly have attained the degree of success they have, the board members said.

Recently 159 Code Forty people received recognition under the Navy Incentive Awards Program at an All Hands meeting held at the China Lake Community Center. Included in the presentations were 24 employees who received Quality Salary Step Increases.

Numbering among the awards were 85 receiving Group Superior Achievement Awards; 13 receiving Single Superior Achievement Awards, and 37 receiving Sustained Superior Performance Awards.

Those in Code Forty receiving Superior Achievement Group Superior Achievement Awards are J. Carr, L. Wolfe; H. Cabe, R. Stalnaker, R. Barkley, A. Pellegrini; C. Frick, J. Farmer, J. Phillips, S. Creacey; E. Menard, W. Petersen, D. Standard, D. Wittenbrink; R. Kline, D. Phillips, A. Ethertedge, R. McLaughlin; M. Savage, M. Hetrick, G. Stiles, G. Graham; F. Crumpacker, B. Auld, E. Davis, A. Young, C. May, J. Mosko, R. Jeffery; D. Elliott, W. Johnson, F. Lydon; A. Remell, H. Zimmerman; J. Mitchell, D. Seegmiller, A. Wollam, C. Turner; J. Francis, L. Thompson, G. Bray; J. Johantgen, R. Hughes, D. Brown, J. Daugherty;

R. Vargus, C. McCall; R. Lewis, E. Clark, R. Mead, E. Erickson; R. Sickels, W. Cadle, A. Panasci; R. Atkinson, R. Corzine; C. Fees, G. Schiefer, G. Barnes; J. Roseth, G. Gregory, M. Stowers; A. Heil, B. Clary, L. Schaller, D. Garretson; W. Wayne, J. Mott, C. Wood, W. Hughey; R. Chatterton, G. Miller, L. Alpert, W. Schad; K. Hein, F. Driggers; D. Weathersbee, L. Mead, L. Bare; J. Smith, P. Sprinkle, H. Lachtman; N. Seeley, R. Mello, E. Jenne, and M. James.

Superior Achievement (Single) Those receiving Superior Achievement Awards Single, are: R. Carlisle, J. Kirby (Apprentice), D. Russell, W. Porter, A. Simshauser (Patent - Addl. Award), G. Weir, R. Meade (Two Patent - Addl. Awards), M. Kamimoto, and N. Long.

SSP Awards (Single) Those receiving Sustained Superior Performance Awards — Single are T. Hines, L. Ricketts, C. Garrett, E. Hughes, A. Gould, Jr., N. Kleinschmidt, P. Rainsberger, A. Galloway, R. Clark, T. Wiruth, D. Cowan, G. Wilkins.

Also, W. Clendenin, J. Billups, G. Younkin, R. Meeker, B. Clary, L. Seeley, R. Boss, R. Shriner, E. Younkin, R. Gilbertson, R. Swallow, and A. Hinz.

Quality Step Increases Those in Code 40 receiving Quality Salary Step Increases are J. Brown, H. Metcalf, L. Catcott, B. Harrison, D. Dudley, E. Loomis, F. Witt, H. Cornett, R. Savage, C. Marcus, G. Cleary, L. Elder.

Also, C. McCall, M. Rogers, H. Randolph, J. Paulson, J. Blair, C. Smith, R. Beyer, F. Walters, L. Riggs, L. Doig, C. Johnson, and L. Jackson.

Two Full Pages Of Pictures of Award Winners (Pages 6 and 7)

CODE 40

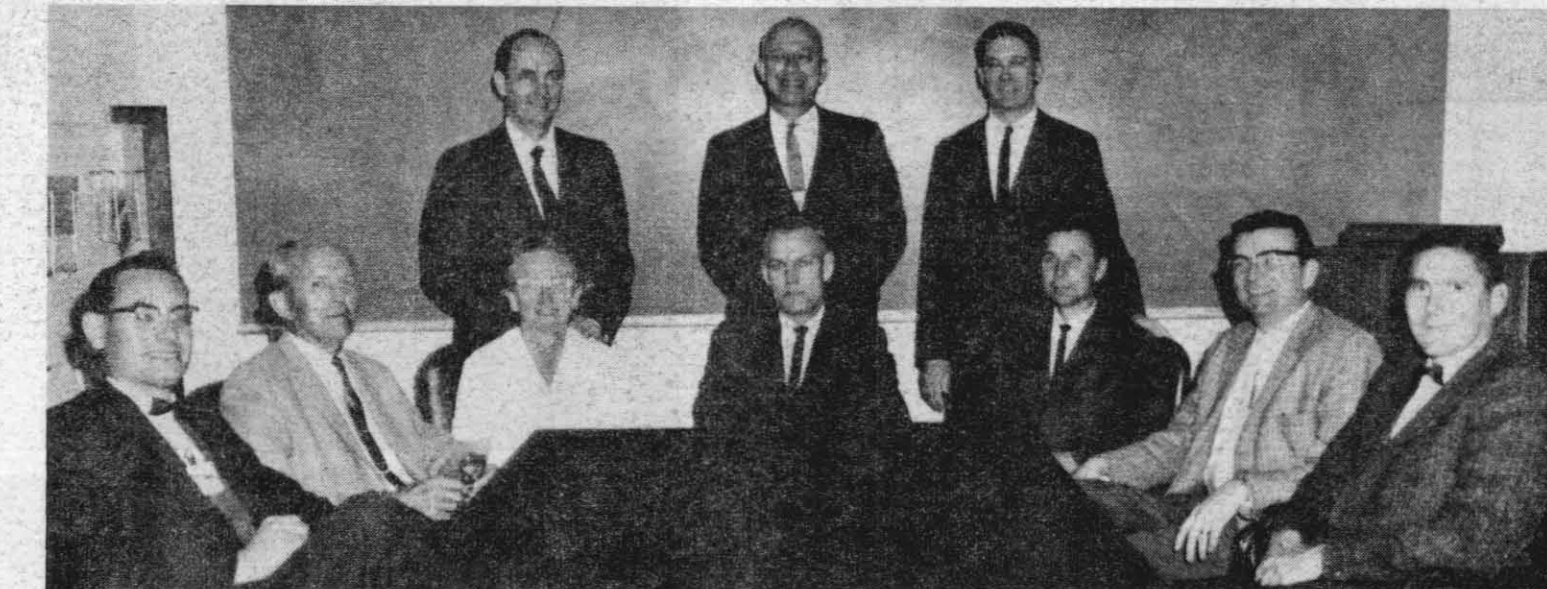
Department's Key Projects Illustrated On Page 8

Weapons Development Department

U. S. Naval Ordnance Test Station, China Lake, California

Friday, Feb. 28, 1964

Weapons Development Dept. Personnel Win 100 Awards



DIVISION HEADS CONFER — Seated (l-r): Dr. Charles P. Smith, Air-to-Air Weapons (405); Earl Loomis, Technical Services (401); Dr. Marguerite Rogers, Air-to-Surface Weapons (403); Frank Knemeyer, Department Head; Leroy Riggs, Aeromechanics (406); Eldon Williams, Staff; Don Moore, Astrometrics (404). Standing (l-r) Richard T. Carlisle, Assistant Department Head; George Cleary, Guided Missile (402), and Harold Metcalf, Associate Department Head.

Cite Close Cooperation

BY FRED RICHARDS The largest organization at the Naval Ordnance Test Station in terms of project dollars assigned and spent annually is the Weapons Development Department, popularly known as "Code Forty."

Last fiscal year Code Forty controlled the expenditure of nearly 25 million dollars in carrying out its various research and development programs. Current fiscal year expenditures are expected to run about the same as last year.

Utilizing the support of all other NOTS departments at China Lake and Pasadena, the Weapons Development Department programs represent a Station-wide effort involving 650 persons.

"Whatever successes our programs may have achieved, or will achieve, are due as much to the vital efforts of personnel in other departments as to those of our project teams," said Franklin H. (Frank) Knemeyer, Head of the Weapons Development Department and the Assistant Technical Director for Development (Weapons Systems).

The impressive part played by Weapons Development Department personnel was borne out recently when 159 of them shared 100 awards in one of the largest commendation ceremonies ever held here.

The Project Picture Each project team in Code Forty is led by a project engineer, and in the case of large programs a project manager is also assigned. Project teams for the larger programs are apt to cut across the traditional branch, division, department and, in some instances, even organizational structures.

"The close coordination between our project teams results in greater program efficiency," said Knemeyer, "because by team action it is possible to implement programs to the fullest extent of personnel and equipment capabilities."

The three weapons systems de-

Organizational Chart

Organizational chart listing various divisions and their personnel, including Asst. Tech. Director for Dev. (Wpn. Sys.) & Dept. Hd., Associate Department Head, and various branch heads.



DR. MARGUERITE M. ROGERS, Head of Air-to-Surface Weapons Division, was selected as one of the three Navy candidates approved by SecNav for possible nomination for the Fourth Annual Federal Woman's Award.



CODE 40 OFFICE STAFF—Front row (l-r) Virginia Sappington, Doris Dudley, Barbara Harrison, June Brown, Larae Catcott, Evelyn Miller. Back row: Harold Metcalf, Assoc. Dept. Head; Frank Knemeyer, Dept. Head; Richard Carlisle, Asst. Dept. Head, and Eldon Williams, Head of Dept. Staff.

Capsule History Goes 'Way Back

The Weapons Development Department is an outgrowth of one of the oldest segments of NOTS. It originated as a section of California Institute of Technology which moved out here in 1943.

Within eight years it evolved into the Rockets and Explosives Department, with more than 700 employees.

After three years of coordinated work with what is now the Propulsion Development Department, the combo became known as the Rocket Development Department.

Beginning in May, 1957, a streamlining program was begun and the department adopted its current name.



CHARLES P. SMITH, Head of Air-to-Air Weapons Division, received honorary doctorate degree from Pasadena College.

COMMENDED FOR THEIR WORK AT NOTS

Sustained Superior Performance
Superior Achievement Awards
Quality Salary Step Increases



CODE 403—Front row (l-r): Roy Compton, Head, Code 4035; Dr. Marguerite Rogers, Head, Air-to-Surface Weapons Division; Janice Paulsen, Willodine Randolph, Richard Birge. Second row (l-r): Eugene Breitenstein, James Blair, Paul Cordle, Head Code 4032; Charles Dye, Asso. Head Code 40301; Robert

Clark, Head Code 4037. Back row (l-r): George Weir, Nick Kleinschmidt, Dow Hughes and Albert Gould Jr. Not present: Anthony Simshauser, Head Code 4031; Clarence Weinland, Paul Rainsberger, Melvin Keith, Head Code 4034; Almer Galloway and Thomas Leese, Head Code 4036.



CODE 406 — Front row (l-r) Dean Bare, Dick Mello, Betty Clary, Norma Long, Ruby Shriner, Leroy Riggs, Division Head. Second row: Phillip Sprankle, Lane Mead, Dick Meeker, Head Code 4063; Marvin James, Jim Jackson. Back row: Ken Johnson, Dwight Weathersbee, Leroy Doig, Assoc. Division Head, and Raymond Boss. Not present: Judson Smith, Harry Lachtman, Nancy Seeley, Everett Jenne, Michael Kamimoto, Leonard Seeley.



CODE 405—Front row (l-r): Eliahoo Reuben, John Billups, Theresa Wiruth, Floyd Walters, Douglas Cowan, Charles P. Smith, Division Head. Second row: Robert Beyer, George Wilkins, Norman Osborne, Frank Driggers,

Robert Meade. Back row: Eugene Foust, Edwin Allen, Don Moore, Head of Division 404, and Ken Hein. Not present: Phil Arnold, Hd. Code 4053; W. Clendenin, Gene Younkin, Hd. Code 4055; Fletcher Phillips.



CODE 401—Front row, (l-r) Earl Loomis, Division Head; Catherine Marcus, Barbara Harrison, Helen Cornett, Frederick Witt. Second

row: John Murray, James Kirby, Raymond Savage, Lee Wolfe. Back row: Curtis Garrett, Lyle Ricketts, Tony Hines and John Carr.



CODE 402—Front row (l-r) Larry Elder, Ralph Mead, Larry Clary, Louis Alpert, Dennis Seegmiller. Second row (l-r) Mc-

Elroy Stowers, William Porter, William Johnson, Denman Elliott. Back: Earl Clark, Charles Turner, Frank Lydon.



CODE 402—Front row (l-r): Alvis Woolam, Jack Russell, Head Code 4021; Albert Heil, Charles May, Richard Jeffery. Second row: Charles Turner, Verbe Schaller, Allen Re-

mell, James Roseth. Back row: Robert Corzine, Joseph Mosko and George Gregory. Not present: Arnold Erickson, William Cadle, Dave Garretson, Wm. Hughey, Gerald Miller.



CODE 402—Front row (l-r) Gerald Schiefer, Barbara Auld, Emily Davis, Frances Crum-packer, George Cleary, Division Head. Second row: William Fees, Harold Zimmerman,

John Daugherty, Williams Mayne. Back row: Richard Lewis, John Johantgen, Richard Hughes, Robert Sickels and Charles McCall.



MORE CODE 402 — Front row (l-r): Daniel Brown, Joseph Francis, Robert Atkinson, James Mott, Anthony Panasci. Second row

(l-r): Glen Bray, Louis Thompson, Claude Wood, Warren Schad. Back row (l-r): Robert Vargus, James Mitchell, Richard Chatterton.



CODE 401—Front row (l-r) Stanley Creacey, James Farmer, Robert Barkley, Ernest Menard, Harvey Cabe. Second row: Gene Graham, Don Phillips, Michael Hetrick, Donald Wittenbrink, Carroll Frick. Back row: Walter Petersen, Riley Kline,

Richard Stalnaker, James Phillips and Donald Standard. Not present: Gail Stiles, Anthony Pellegrini, Amos Etheredge and Morton Savage.



MILITARY PERSONNEL posing with Dept. Head Frank Knemeyer (left) are (l-r), front Lt. (jg) Wayne Rouse, Cdr L. H. Lippincott, Asst. Underseas Weapons Officer; LCdr. Robert W. Montross, CWO Robert B. McLaughlin

and Major R. W. Walker, Sidewinder Project Officer. Back row (l-r) GySgt. J. O. Thornton, GySgt. James Hoff, SSgt. Ray Force, Sgt. James Duff and GySgt. Ray Connor, all of Sidewinder IC project.