

NOTS Pasadena

VIRGINIA E. LIBBY — EXT. 638



ELECTRONICS BRANCH PERSONNEL, Harper Whitehouse, Physicist, and George Lindsay, Electronics Engineer (center, l-r), are rewarded for their patent entitled, "Multiple Code Delay Line Correlator."

Making the presentations of \$50 each and Patent Certificates are D. A. Kunz, Head, Systems Operation Division (l), and W. E. Hicks, Associate Department Head, UOD. This is each recipient's third award.

NOTS Personnel Attend Symposium

Technical personnel from NOTS Pasadena and China Lake attended the 23rd, Navy Symposium on Underwater Acoustics in Washington, D. C. this week. Pasadena attendees were—A. J. Tickner, L. Beck, Y. Igarashi, G. F. Sullivan, S. F. Sullivan, H. J. Whitehouse, A. B. Poynter, H. Wolfe, E. Dunn, and two Bendix-Pacific personnel sponsored by NOTS—D. W. Painter and J. Martin. China Lake personnel attending were G. S. Sprouse and R. C. Wickenden.

Papers presented by NOTS personnel were—"An Investigation of Directional Localization of Sound from Submarine Targets at Short Ranges," by Y. Igarashi. "An Experimental Investigation of Torpedo Generated Wakes," by L. Beck. "Matched Filter Implementations for Active Sonar," by H. Whitehouse. "Performance of an Underwater Acoustic Digital Telemetry System," by S. Sullivan. "Separation of Signals from Reverberation by Matched Filtering," by G. Lindsay.

Bendix-Pacific personnel presented, "Torpedo Performance Monitoring by Underwater Acoustic Telemetry," by D. W. Painter, and "Evaluation of Mutual Interaction Among Elements of the Torpedo Mk 46 Transducer Array," by J. Martin.

The Symposium serves as a scientific and engineering forum for classified material on theoretical and technological research and development in underwater acoustics and related subjects. Its purpose is to give scientists and engineers working on classified projects an opportunity for discussions similar to those at



BENEFICIAL SUGGESTION check for \$60 is presented by Lt. T. L. Lonegan, Assistant Public Works Officer, to Ernest Feyrer (center), as Dick Franz, Head, Transportation Branch, looks on to offer congratulations. Ernie suggested, "Placing an aluminum plate on the bed of a trailer, thereby saving much wear and tear when loading and unloading." A Truck Driver in P7124, he has been with NOTS since CalTech days. He served in the Navy from 1925-1929. Originally from Buffalo, New York, Ernie and his wife, Leota, have resided in Covina for six years. They have two sons—Ernest and David, and a daughter, Melody Joyce.

unclassified meetings of professional societies. However, it is recognized that circumstances may favor consideration of unclassified papers for the symposium. Therefore, papers which may provoke Confidential discussion or contain subject matter of prime interest to the symposium audience and papers which contain material classified Confidential are considered for presentation.

A committee appointed by the Underwater Sound Advisory Group reviews the abstracts and selects those papers to be presented at the Symposium.



IN THE PASADENA PUBLIC WORKS OFFICE, Marvin L. Hillegger, Head of the Mechanical and Electrical Branch, Engineering Division (center) is awarded a Quality Step Increase. Making the presentation is J. L. Kraemer, Division Head (l), and Lt. T. L. Lonegan, Assistant Public Works Officer at the Pasadena Laboratory.

Quality Step For Hillegger

A Quality Step Increase has been awarded to Marvin L. Hillegger, Head of the Mechanical and Electrical Branch of the Engineering Division in the Pasadena Public Works Office.

During his twenty-five year federal career, Marv has enjoyed versatility both professionally and geographically.

He entered government service in 1940 with the U. S. Geological Survey in Portland, Oregon, and transferred with the same activity to San Francisco. Subsequent positions included a tour with the Corps of Engineers in Los Angeles and Whitehorse, Yuk-

on Territory, Canada; and the Long Beach Naval Shipyard. He came to NOTS in 1947 and left in 1956, journeying to Madrid, Spain, where he worked for BuDocks with the Office in Charge of Construction. He returned to NOTS and has remained since 1959. A native of Cleveland, Ohio, Marv and his wife, Jeannette, have been residents of San Marino for 20 years. Their 19-year old daughter, Margery, previously a student at Occidental College, is carrying on the family adventures. She is presently majoring in foreign languages at the University of Granada in Spain.



AND IT RAINED AND RAINED AND RAINED!—Pictorial evidence of the recent deluge is this photo taken below the Small Caliber Range at Morris Dam on Tuesday, November 23rd. The right side of the picture shows the bottom of the dam with water gushing through the needle valves at 3000 cubic feet per second. To the left of the picture shows the water pouring over the spillway at 7000 cubic feet per second. The needle valves are normally used to maintain lake level. The spillway comes into play at exceptionally high water level or flood stages.

—Photo by Bud Schroeder

PROMOTIONAL OPPORTUNITIES

Present Station employees are encouraged to apply for the positions listed below: Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies. To apply for vacancies, contact Nancy Reardon, Pasadena Personnel Division, Extension 492. A current SF-58 must be submitted when applying. **Mathematician, GS-11, Code P8043**—Mathematical design of underwater weapon system simulation models for digital and analog-digital computer application. Develops or modifies existing equations describing physical phenomena or weapon sub-systems. Develops flow charts, codes and debugs computer programs. Applicants should have experience in digital computer systems analysis.

MEET Your Councilman

This is the second in a series offered by the Rocketeer to better acquaint residents with Community Council precinct representatives.



LLOYD H. SMITH

Lloyd H. Smith, an aerospace engineer with the Weapons Systems Branch of Propulsion Development Department, was re-elected precinct 2 representative to the Community Council on November 2.

Lloyd arrived at NOTS in June, 1964, with a BA in aerospace engineering awarded that same month at State Polytechnic College, Pomona. He is a member of the Engineering Honor Society and is listed in Who's Who Among Students in American Universities and Colleges, 1962-63 and 1963-64, and continues to develop his professional capacities through an off-campus graduate program in engineering mechanics at UCLA.

Lloyd's interest in NOTS' varied pursuits extends beyond his immediate duties through membership in the Marine Technology Society. He also is a member of the American Institute of Aeronautics and Astronautics.

Lloyd Smith gives the single man's devotion to his chief hobby, the design, development and racing of high-speed boats, and belongs to two power boating associations. He plans to be married, however, on January 8, 1966, and pass on the boating bug to his bride.

Much of his energies have been claimed by his work on three activities of the Community Council. Lloyd serves on the Civil Affairs Committee, the Community Improvements Committee and as one of the Council's representatives to the Indian Wells Valley's Congress for Community Progress project.

IWV Scouts Set "Good Turn Day"

Saturday, Dec. 11 is a day to do a combined and coordinated good turn," says Dick Hape, co-leader with Chaplain Robert Odell of Good Turn Day, Saturday, December 11.

Good Turn Day was established by the Kern County Council of the Boy Scouts of America, in cooperation with the Salvation Army, Goodwill Industries and St. Vincent De Paul Society, according to Dick Hape, Community Chairman for the Indian Wells Valley Boy Scouts of America.

All Cub Scout, Boy Scout, (Continued on Page 7)

Combined Campaign Fund Reaches \$37,000

China Lakers have joined together to make the 1965 Combined Federal Campaign—the first such combined effort—a great success for the group of charities and service organizations it represented, according to J. H. McGlothlin, Community Relations Officer and chairman of the Campaign.

He reports that the Station-wide fund drive, the only nationwide drive of the year, netted \$37,000 for United Fund, national health agencies and international service agencies, and gives special praise to the Keymen who donated their time and efforts in canvassing the community.

Assisting McGlothlin in the two-week drive were co-chairmen LCdr. Fredrick H. Elliott, CO of NOTS Enlisted Personnel Division; John M. Simpson, of Central Staff's Accounting Division; and Edward D. Casaroli, head of Public Work's Maintenance Control Division Inspection Branch.

VX-5 Takes The Cake Everyone—both military and civilian—was into the act during the Combined Federal Campaign drive, but VX-5 must take the cake for ingenuity.

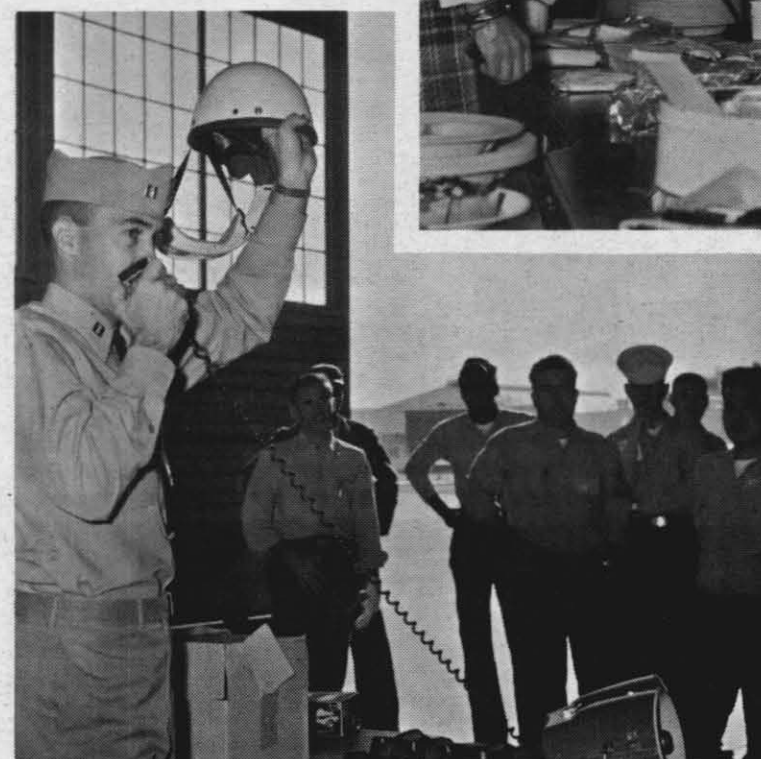
The VX-5 'Vampires' staged an auction and bake sale in the Squadron's Hanger No. 1, on an idea of Executive Officer, Cdr. A.T. Anderson.

At 9 a.m. on Friday, October 29, Lt. Jerry Breast began calling off the donated items like a pro, and kept the bids high until 10:30 when it was discovered that all had been sold.

The bake sale sold out quickly to hungry patrons. Mrs. J. S. Clauzel reported that a total of \$20.00 was made from donations by the officer's wives. Mrs. G. Meyer and Mrs. Clauzel organized



BAKE SALE customer (r) L. A. Lane, DM3, is served by (l-r) Mrs. Alec Blunden, Mrs. Lee Thornburgh and Mrs. Sam Clauzel. LT. BREAST (below) extols merits of motorcycle helmet and goggles by loudspeaker.



and collected the goodies with Mrs. T. F. Taylor, Mrs. E. L. Thornburgh, Mrs. A. R. Blunden, Mrs. G. E. Russell and Mrs. L. C. Showman lending a hand at selling and serving. Total sales for the auction and bake sale reached \$200.00 reported VX-5 Material Officer



Ens. J. M. LaFortune and Legal Officer Ens. R. C. Cable. Both officers were present when the auctioneer said "Sold" on chairs, T.V.'s, lamps, books, records and a washing machine, plus many other items including wearing apparel, shoes, and linens.

WHAT AM I BID? Lt. Jerry Breast applies hitherto undiscovered talent as auctioneer at VX-5 auction-bake sale for Combined Federal Campaign in Hangar 1.

Mk 4 Pod Gets VX-5 Scrutiny

(Continued from Page 1)

mine shipboard handling safety characteristics. RADHAZ is one of these. It is a protective shield to prevent the ships' high powered radar from accidentally firing the electrical primer.

During six days at sea, two VX-5 A4C aircraft were piloted by LCdr George E. Russell, LCdr Theodore L. Lloyd Jr., and Marine Capt. Richard A. Gustafson while aspects of handling, safety and loading of the gun pod were evaluated. Robert J. Weidinger ATC, Maintenance Coordinator, and Freeman R. Accord A01, Line Supervisor, stated that no unanticipated difficulties arose in shipboard handling and loading.

Other features include blast suppression which directs the ordnance blast downward, permitting centerline installation and safe ejection of cartridge and belt clips at the rate of 75 ft. per second. The rotating magazine of the Mk 4 gun enables the weapon to fire from both barrels at the same time. Cooling is accomplished by ram air from the nose section.

Capt. Gustafson, presently the project officer for the Mk 4, explains that the evaluation program's major effect on the weapon has been a modification of the blast deflector to



Mk4 AND SKYHAWK—A deadly combination, featuring high rate of fire and little rearming "down time" for aircraft. Pod

with its Mk 11 double-barrel smoothbore gun can be installed on a variety of Navy and Air Force planes.

give better cooling. The deflector channels air to the two prominent intake tubes. The air is then conducted through the gun pod through tubes for cooling.

He said that information pointing to the modification was gathered in firings for accuracy from the Ranger, over the Station's Charlie Range, and in flights from the Station.

He pointed out that the central purpose of the evaluation program, however, is to obtain operational and servicing information for the benefit of future pilots and crews.

The feed system utilizes link ammunition and a pneumatic booster developing 1500 pounds per square inch of working air pressure for charging and clearing. One other

feature enables the pilot to switch from fast to slow fire at a rate of only 700 rounds per minute.

LCdr Russell states that the weapon is "Simple, accurate and has a highly flexible carrying capability as opposed to fixed weapons of this type." LCdr Lloyd reports that the

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High Adventure Lures Bluejackets To Skydiving Sport Over NOTS



PERFECT FORM—Student jumper Al Holford, PRAN, of NAF, exits on "static line" jump. Main chute release cord (above right arm) is about to pull taut.



FINAL MANEUVER — Skydiver pulls on guide lines to make final turn before touching down. The camera, here, deceives, as he landed close to target circle.



TOUCHDOWN — Jumper hits lined circular target at skydivers' drop zone during daybreak jump Thursday, Nov. 4.



PLANNING THE DROP—Divers and crew consult before takeoff Sunday, Nov. 28. They are (l-r) Homer Oldmeyer, club president and jumpmaster; Lt. R. P. Karr, liaison officer; LCdr. A. E. Molloy, pilot; and Anthony Trujillo, AMC, co-pilot.

From the open door of an NAF C-117 circling slowly above the southwest corner of NOTS at daybreak Thursday, November 4, jumped early-rising members of the growing China Lake Sky Divers club. They are among 25 present members ranging from beginners to jumpers well along the route of increasing skill.

Homer Oldmeyer, AC-2, who works in the NAF control tower, kept a sharp eye on jumpers that morning, as the club's jump-master and president. With some 145 jumps behind him and a Class "C" license from the Parachute Club of America, required for jump-masters, he supervises each of the local club's three or so jumps per month. He also is the instructor for six pre-jump students in the club as well as for another six who have progressed to "static line" jumps, in which the canopy release is pulled from an attachment point inside the plane as the jumper exits.

Meet Twice a Month

The Sky Divers, who meet twice a month on Navy payday Thursday, at their clubhouse on the corner of McIntire and Kitts, are composed of NOTS Navymen, and currently have a waiting line of prospective members—waiting only on additional equipment for the club.

"We have good interest and support from Command," says Oldmeyer. "We have the use of the C-117 for our jumps, and several officers donate their time as pilots."

Thorough Training

Liaison officer for the group is Lt. R. P. Karr, and flying for the pre-quarters jumps have been Cdr. M. M. Manger, Jr., who flew November 4, LCdr. J. B. Miner, LCdr. A. E. Molloy, Lt. D. C. Newhouse, Lt. L. A. Cossairt and Anthony D. Trujillo, AMC.

Capt. Atlee F. Clapp, NOTS Technical Officer, succumbed to the lure of skyborne adventure in early October, and made his parachute debut with the skydivers one early Thursday morning.

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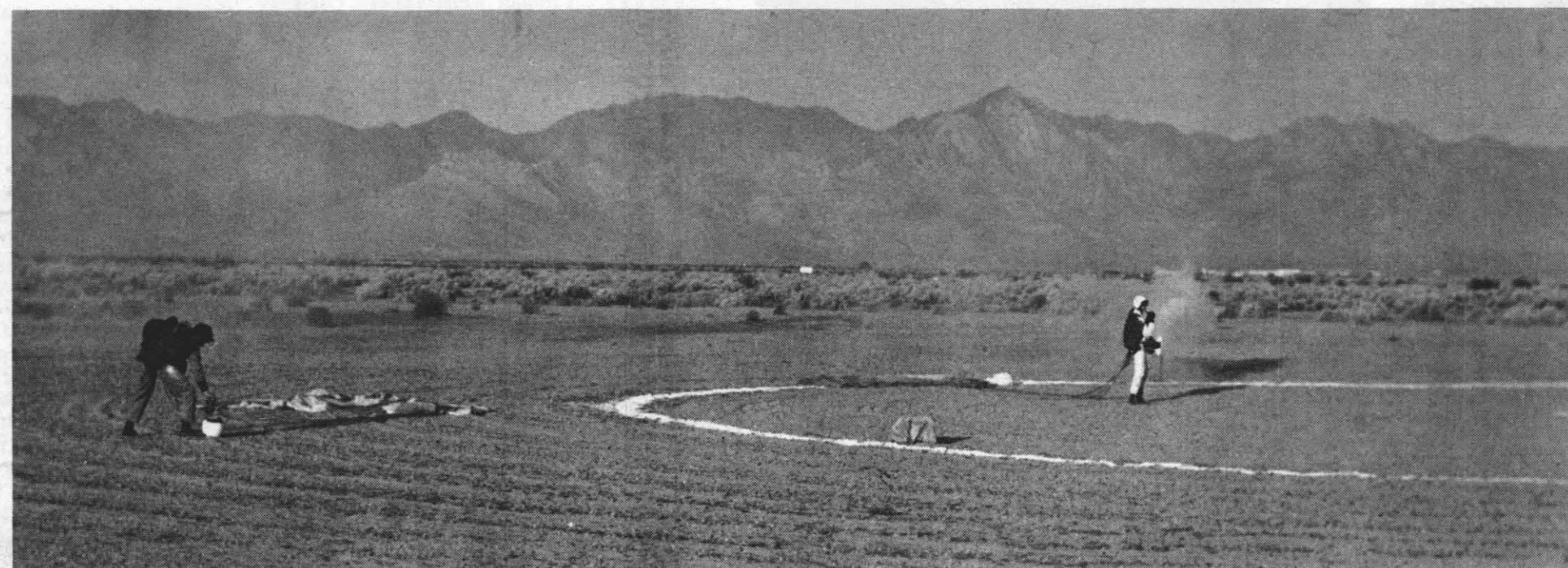


CHECKOUT — Preflight equipment check is performed before Sun., Nov. 28, jump by jump-master Oldmeyer (left). Jumpers are (l-r) Ken Adams, ADJ3; Ron Hardern, AO2; Charles Markin, ADJAN; Bill Brandon, AO2; Jim Dello, RD1; Clenton Forrister, AO3; Jim Stegall, FTM1; Mike Kane, AN; Dave Ames, AN; Al Holford, PRAN; Dave LeBourgeois, AA; and Rus Jefferson, PR3.

Photos By
GERALD BURGESS, PH2
and
JERRY WILLEY, PHAN



HOW'S PROSPECTS? Looking good to club officers before Nov. 28 jump. From left are Dave Ames, secretary-treasurer; James Tuttle, custodian; Homer Oldmeyer, president; Bill Brandon, vice-president.



ACCURACY FROM EXPERIENCE—As jumper stands where he landed a moment before, fellow skydiver moves up from left to assist in gathering up chute.