

Local VX-5 Squadron Develops New Bomb Delivery Techniques

Playing a key role in the Navy's weapons program is an air development squadron right here at NOTS.

Air Development Squadron Five, (VX-5), probably the Navy's top test squadron, was originally commissioned at NAS Moffett Field in June 1951. Deploying at NAF China Lake in June 1956, the squadron has become well known to the NOTS community.

Commanded by Captain Richard A. Beveridge, USN, the squadron has approximately 30 officers and 200 enlisted men, including two Marine pilots and one Air Force exchange pilot.

Ideal flying weather, characteristic of the Mojave Desert, and the well instrumented ranges available at NOTS provide a favorable atmosphere for the role of this squadron. Its mission is of a continuing nature. As the Navy's latest types of attack airplanes are scheduled for Fleet delivery they are assigned to VX-5 to determine their capability for special weapons attack.

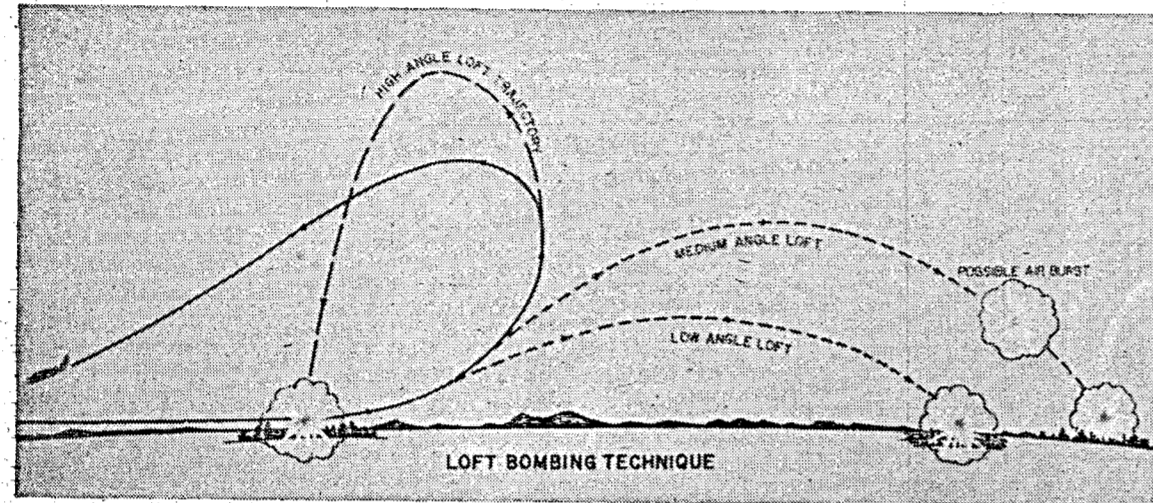
Under the logistic and operational control of the Commander, Naval Air Force Pacific Fleet and the technical control of the Commander Operational Development Force, VX-5 develops day and night and all-weather techniques for the delivery of special weapons by carrier-based airplanes.

During the course of six years, the squadron has evaluated AD "Skyraiders," F2H "Banhees," F7U "Cutlasses," F9F-8B "Cougars," F3D "Skyknights," and the AD "Skywarrior," the Navy's largest carrier-based jet attack bomber. Now undergoing extensive study are the Navy's smallest attack airplane, the AD "Skyhawk," and the latest of the famed "Fury" series, the FJ-4B.

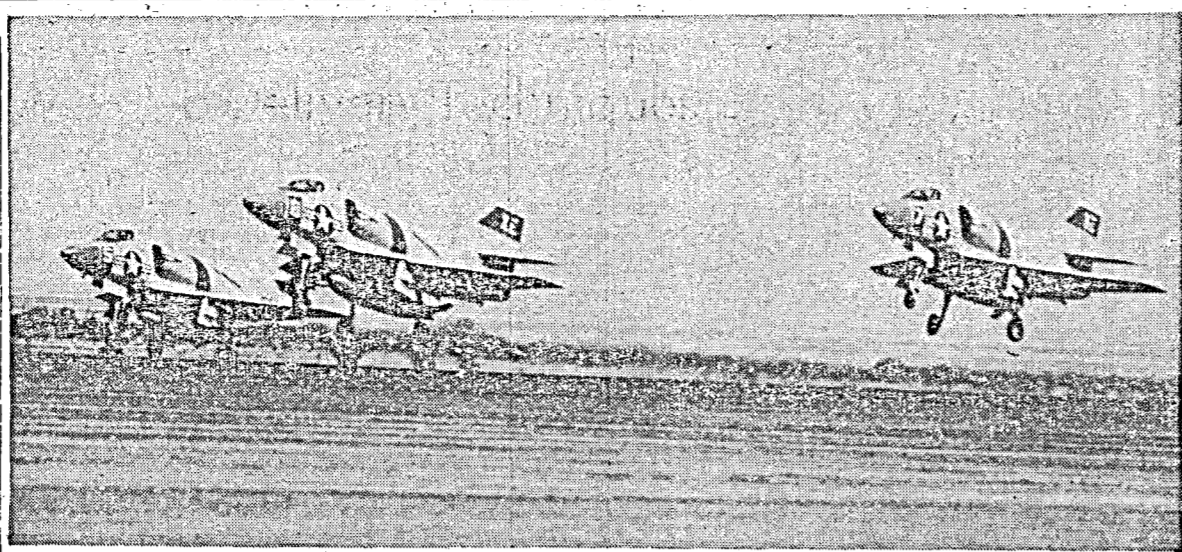
As new techniques are proven and information compiled, it is promulgated in official reports to the Fleet squadrons to provide them with the information necessary to maintain the highest state of readiness.



INSIGNIA of VX-5, indicating the day and night capability of the squadron as well as its all-weather special weapons delivery potential.



VX-5 takes justifiable pride in having developed the loft bombing technique, the most effective technique yet devised which permits pilots to get away safely after releasing special weapons. The maneuver involves a high-speed run-in toward the target, a pull-up at a pre-determined distance from the target, followed by an automatic bomb release at a prescribed angle, either low, medium or high. As the bomb is tossed toward the desired point of impact, the attack airplane continues up and over into



THREE SERVICES REPRESENTED—Taking off in formation in A4D "Skyhawks," the Navy's smallest carrier-based attack bomber, are three aviators serving with VX-5, but representing three different branches of the service. Flying the jets (l. to r.) are: Lt. E. R. Christie, USN, (who recently left the squadron); Major D. E. Wegley, USMC; and Captain S. S. Clark, USAF, who also leaves the squadron this week.

Other types of bombing techniques employed are: glide bombing (also developed and perfected by VX-5), toss bombing (a modified loft from altitude), dive bombing, and the BOAR (rocket assisted) delivery. Realizing their vital role in supplying the Fleet squadrons with the necessary "know how" of special weapons delivery, VX-5 continues to work energetically to meet this significant responsibility.

Diagrams above are 3 variations of this type of bombing—low, medium and high angle lofts. The latter is more commonly called the "over-the-shoulder" maneuver and is used when an initial pull-up point near the target cannot accurately be determined.

Sports Car Rally On This Sunday

Anyone interested in precision driving—that is, maintaining average speeds to the split second—should get revved up for the next Indian Wells Valley Sports Car Club rally.

Sunday, November 24 is the date, and starting time is at 10 a.m. at Burles and Ward Streets in Ridgecrest. The rally will last 4 1/2 to 5 1/2 hours, with a lunch stop.

Trophy presentations will be made in the Homestead Cafe on Highway 6 following the rally. They will be donated by Hal Greene Chevrolet-Buick Agency and McKernan's Richfield Service. Sports cars are not necessary and the entry fee is \$1 per car whether it's a semi-truck or a quarter midget.

For further details call Bob Gardner at 71719 or Bill Spafford at 71594 on the base.

'Electronics' Prints Sam Dorsey Article

Research Department Electronics Engineer Sam Dorsey again makes news in the technical publication "Electronics" for November with his 3-page article titled "Photoelectric Target for Missile Tests."

Dorsey has written numerous NavOrd technical reports and articles which have appeared in open literature publications such as "Military Automation," the "Journal of the Society of Motion Picture and Television Engineers, Inc.," including three other articles which have appeared in earlier "Electronics" engineering editions. Dorsey has been a NOTS employee since 1945.

Book of the Week Face to Face by Vod Mehta. A blind young Hindu finds in America the education and liberation he could not find in India.

EMCO Council Reports On Community Proposals, Action

At a meeting of the Employee-Management Council, held November 13 in the Community Center, several matters of interest to Station residents were under consideration.

- Among the items discussed and reported upon in referral matters are listed below:
- Adequacy of Public Address System in auditorium of Community Center: This item had been referred to the Recreation Officer who reported that the present system is considered adequate.
- Request Wherry Housing list be published in same manner as Station housing list: The Community Manager reported that Wherry Housing can be handled in same manner as other housing and will be considered at next Housing Board meeting.
- Complaint that street lights in Wherry housing area are not being turned on at night: It was reported that investigation of this matter found that one of the clocks controlling the Wherry lighting system had been out of commission for about a month, and that there should be no further trouble concerning the lighting.
- Questions Answered
- Do tenants moving from Wherry housing have any recourse against assessed charges beyond normal wear and tear?
- A tenant may request an adjustment by the Station Commander, who has authority to adjust charges when circumstances warrant. Re-



SERVICE AWARDS—E. W. Ellington, Head of the Manufacturing Division of the Engineering Department, presents 30 and 20-year pins to (l. to r.) Charles D. Radcliff, 30 years; Walter Petersen, 20 years; and Stephen Jurich, 20 years.

Navy Exchange Holiday Hours All Navy Exchange activities will be closed Thanksgiving Day, November 28, with the following exceptions: Community Center Dining Room Open 5 to 9:30 p.m. Community Center Coffee Shop Open 5 to 11 p.m. Station Restaurant Open 7 a.m. to 1 p.m.



NEW CLUB HOUSE—Present at the new club house opening for the China Lake Navy Wives Club were Capt. F. A. Chenuault (left) and Capt. W. W. Hollister (right). Club officers seated (l. to r.) are: Ann Pugh, Treasurer; Phyllis Thorpe, President; Shirley Birchholder, Recording Secretary; and Ann Smith, Corresponding Secretary. The new quarters are located next door to the Greyhound Bus Depot.



L. T. E. THOMPSON AWARDEES—Recipients of the L. T. E. Thompson Award presented at the Advisory Board Luncheon last Friday are shown with (l. to r.) Dr. Wm. B. McLean, NOTS Technical Director and Dr. L. T. E. Thompson, first NOTS Technical Director. Continuing (l. to r.) are awardees: Cdr. John O. Richmond (Ret.); Capt. Levering Smith; Dr. Bruce H. Sage; Haskell G. Wilson; RADM. Sherman E. Burroughs, Jr. (Ret.); and Mrs. G. B. L. Smith who accepted the award posthumously for her husband; and RADM. F. S. Withington, Chief of BuOrd who was on board for the conference.

United Fund Contributions Short Of Goal; Mop Up Drive Begins

The United Fund Drive in the Indian Wells Valley, which officially closed November 15, is now engaged in a "mopping up" operation, according to Augie Schaefer, campaign manager.

The "mopping up" activity, he explained, means contacting those people who have already been contacted, but were unable to make their actual contributions previously. Also included are those who have not yet been contacted, he pointed out.

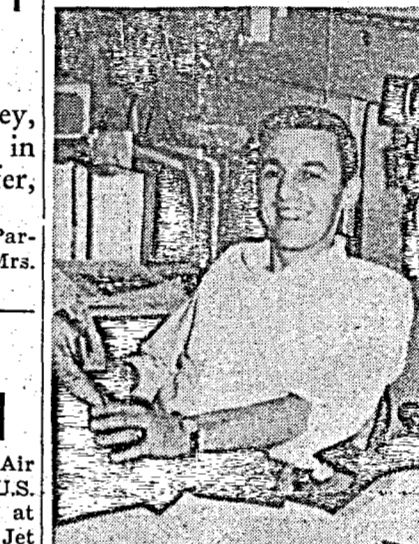
While the United Fund can not approach the new prospects, those who have not contributed may do so by mailing their gift to United Fund, Box 42, China Lake.

The United Fund total in the Inyo, Kern, Ridgecrest and China Lake campaign has reached \$21,124, Schaefer said. Added to the honor roll list of Ridgecrest merchants who have contributed are Kennedy Typewriter Service and Big Bundle Laundry.

Additional names of United Fund volunteer workers in the China Lake area are: Edie Karlstrom, Ellen Cott, Warren Stump, Helen Fletcher, Carol Meirs, Carole Lubben, Royal Valentine, T. W. Underwood, Wayne Zelmer, Bill Francis, K. W. Kremke, James Morris, L. E. Ward, Jr., Kay Gilkinson, Chris Finch, Oscar Glatz, Pat Simperman, James Moore, Connie Crow, N. Halsey and Margaret McGilvery.

Also, Mrs. O. R. Hape, Ernest Bumgarner, Mrs. G. Mayberry, Ellen Sound, Chick Snyder, Alvin Hill, Gayle Rowett, Paul Donaldson, R. McLaughlin, Ellen LaFortune, A. S. Etheredge, J. M. Becker, C. E. Rhodes, R. Forester, H. L. Myers, Bob Green, Dixie Brown, Marilyn

To Marines



Leaving for active duty in the U. S. Marine Corps today is William E. Jackman, Assistant Editor of the Rocketeer for the past year.

A graduate of the University of Notre Dame in 1956, Jackman worked for a short time as a technical editor in the Propellants and Explosives Department before moving to the Rocketeer.

He will enter the 21st Officer Candidate Course at Quantico, Va., and receive a commission as 2nd Lieutenant in March, 1958.

Housing List Opens For New Applicants

C. J. Falgatter, Head of Housing Division, has announced that additional entries for the Station housing list for the quarter beginning January 1, 1958, will be accepted until December 6, 1957.

Applications should be filed at the Housing Office if a person is a new employee and has never before applied for housing, or if an employee has received a promotion or status so as to affect his housing application.

Employees who wish to be considered for other housing and have not reapplied after being assigned family quarters, including trailers, should also file an application.

Those carried correctly on the October list who have not been assigned or offered family housing need not make further application at this time.

The Housing Office will appreciate the cooperation of tenants in giving notice of plans to vacate Station housing as far in advance as possible. Appointments for check-outs may be made by calling Ext. 72941.

Commissary Closes

The Commissary Store will be closed Thanksgiving day. Regular business hours will be observed on all other days of the week.

Washington Post Writer Kluttz Praises Our 'NOTS Philosophy'

(Editor's Note: The following article written by Jerry Kluttz appeared in the Washington Post. It was the result of a visit to NOTS Pasadena. Secretary of the Navy Thomas S. Gates in commenting on the article to Dr. Wm. B. McLean said, "My observations of NOTS coincide with those of Mr. Kluttz." The article is reprinted in toto.)

A group of young Navy civilian "pros" in a ramshackle converted factory in Pasadena, Calif., have a refreshing approach to their work and their jobs that could be unique in the Federal service. They are part of NOTS, the Naval Ordnance Test Station, charged with the development of superior rockets and missiles. The installation there is developing deadly underwater guided missiles that can seek out and destroy enemy vessels.

A larger NOTS Station is at China Lake, about 120 miles distant in the Mojave Desert. All rockets now in use by the Navy and Air Force were developed there, along with the Sidewinder, the successful and inexpensive air-to-air missile. Both installations are working on several new secret weapons which are described as "fantastic."

NOTS is a young persons world; it bubbles with enthusiasm and pride. It has 2100 professional employees, mainly scientists and engineers who comprise half of its staff. Their average age is about 32 years. NOTS gets them young, usually out of college graduating classes, and it trains and encourages them and gives them challenging work.

It is the only major Government scientific agency I know of which isn't faced with a serious shortage of professional people. NOTS isn't hunting for them. It's building up an enviable reputation as an excellent place to work, and it doesn't have too much trouble attracting 100 to 150 carefully selected scientists and engineering graduates each year, despite higher salary offers elsewhere.

THE TOP CIVILIAN and military people in NOTS are young and bright, and they work together as a team. Examples:

Dr. William B. McLean, technical director, is only 42. He was given a cash award of \$25,000, a record amount, for conceiving and helping to develop the Sidewinder, the Navy's deadly air-to-air missile. He's a former employee of the Bureau of Standards here.

Douglas J. Wilcox, chief of the Underwater Ordnance Department, doesn't look his 36 years. On his young shoulders lies the heavy task of developing underwater weapons that will make the oceans too hot for enemy submarines.

In addition, he has been appointed project manager of a super-secret weapon. As such, he directs the work of its development and production, which is spread over 35 Government branches and industries. The project has a \$54-million price tag.

Cmdr. J. J. O'Brien, 37-year-old physicist, is the naval officer in charge of the key scientific activity. He talks the language of the scientists and he understands their problems. NOTS, he stresses, is an "integrated team" of military and civilian personnel. "We're here to

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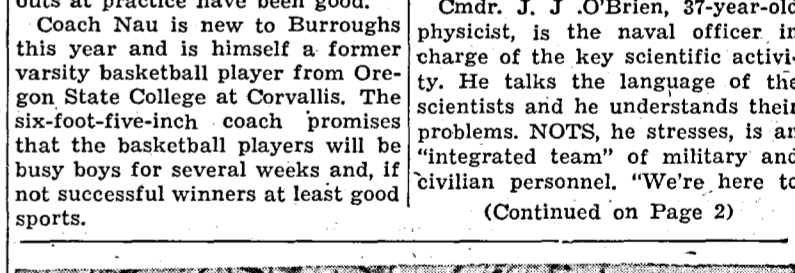
Basketball Season Opens at Burroughs

Burroughs High School gridmen hung up their football uniforms after their homecoming game last Saturday to this week don new green and white outfits that will be seen on the basketball courts this winter.

Trona High School, competing against the Burros at the closing football game, will also open the Burros basketball season on November 27 in Trona. Burroughs lost to Trona last week, 38-0.

As a member of the Golden League, the Burroughs High School "A" team placed third in football this year and the "B's" placed second. It is hoped that the basketball team will win a large majority of their 12 games in the league. Coach James Nau says it is too early in the season to predict the successfulness of the team, but that three lettermen from last year's varsity squad are back and turnouts at practice have been good.

Coach Nau is new to Burroughs this year and is himself a former varsity basketball player from Oregon State College at Corvallis. The six-foot-five-inch coach promises that the basketball players will be busy boys for several weeks and, if not successful winners at least good sports.



JACK FROST?—No. Brad Kopps, son of LCDr. and Mrs. R. L. Kopps of 524-A Nimitz. Somebody left their sprinklers on Sunday night and Brad woke up and had popsicles for breakfast Monday morning as the temperature dipped to below freezing.

Lost and Found: Two Children

Several hours of anxiety were experienced by two NOTS families on the night of November 13 when Lou Smith, age 9, son of Mrs. P. Cole-riek of 623-D Sangamon, and Jackie Dean, age 10, daughter of Mrs. O. Dean of 610-A Sangamon were reported missing for over 10 hours.

The incident started when five youngsters took a notion to run away to "B" mountain. At 8:30 p.m. of the evening of the occurrence, the three other youngsters involved, Danny Tomack, Harry Coleman and Tommy Dean returned home to announce that Lou and Jackie had become separated from the group and were still in the vicinity of "B" mountain.

At 9 p.m., Security Officers D. C. Fitzgerald, Sergeant A. R. Caro, and Patrolman Peoria who had been scouring the "B" mountain area were joined by an additional searching party. The reinforcements consisted of Master Sergeant Marion Schoeny, Marine Barracks OD, accompanied by 36 marines, 3 sailors, Sergeant Hodges of the Sheriff's

office in Ridgecrest, 4 deputy sheriffs with a posse of 6 deputies with horses, 5 jeeps and one 4x4 generator light. The rescue party assembled at the foot of "B" mountain and proceeded from there in a wide search of the area for the missing children.

When footprints of the two children heading toward the China Lake Pilot Plant were discovered by Security Officer George E. Smith, the searchers reassembled at this point to alter their tracking tactics. Proceeding in a southerly direction which led them to the utility room of CLPP, they found the two children fast asleep at 3:15 the following morning, bringing to an end a grueling 10-hour search. The children were found by Pfc. C. P. Morgan, Pfc. D. D. Dotson and Pvt. E. E. Dickson of the Marine Barracks.

Other than being tired and sleepy, the children were in good condition physically and were released to their parents.

