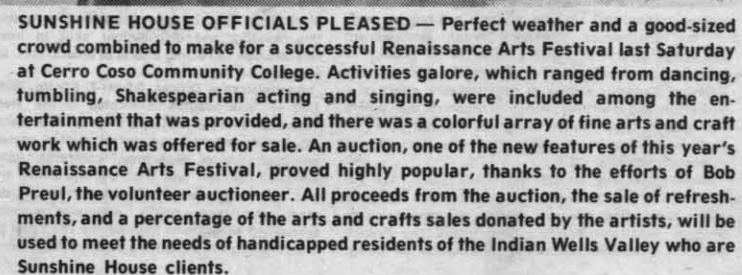
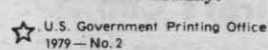


General admission tickets are \$2.50, with students and ASB card holders being admitted for \$1.25. Tickets are now on sale at the Gift Mart and Sports Etc. in Ridgecrest, and at the college business office.

Persons interested in attending this yearly event may obtain more information at the Community Center.



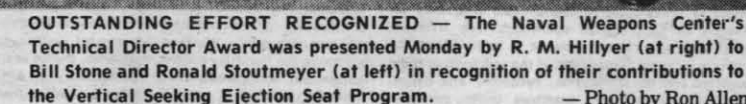
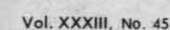
Program subject to change without notice. For further information call NWC ext. 3097 or ext. 2411.



From: _____

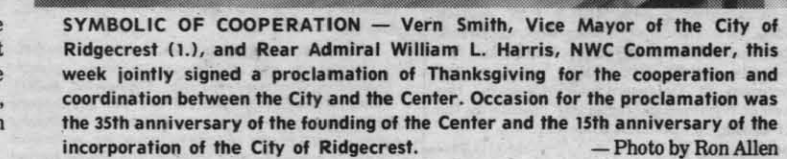
To: _____

PLACE
STAMP
HERE



Displaced employees registered in the Department of Defense priority placement program who have been separated will be provided maximum placement assistance, but their employment is chargeable within the one-in-two limitation.

W. L. Harris, RAdm., USN
Commander, NWC
Vern Smith, Vice-Mayor
City of Ridgecrest



Hillyer congratulated the two men for successfully directing the autopilot and

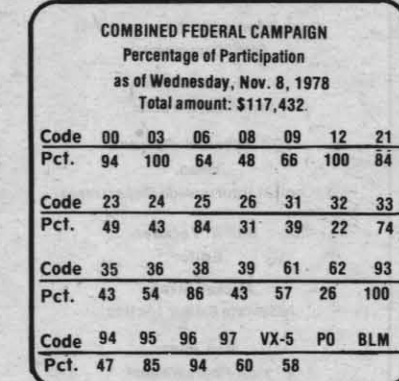
Major Milestone

The last of the three tests (this past summer) was recognized by experts in this field as being a major milestone in the system development — demonstrating as it did a dramatic increase in the safe recovery envelope for aircrew ejections.

In the final test, the Vertical Seeking Ejection Seat and an anthropomorphic dummy were ejected from an upside down aircraft cockpit suspended 100 ft. above the ground.

After traveling straight down less than 45 ft., the seat reversed direction and began climbing skyward. At burn-out, the seat had reached an altitude of slightly more than 100 ft. and continued on to about 150 ft. above the ground where a parachute opened.

(Continued on Page 3)





Vets Day proclamation issued

By the President of the United States of America: A Proclamation
Among the great days of national remembrance, none is more deeply moving to Americans than Veterans Day. On this occasion, our nation traditionally joins together to salute those valiant individuals who have served in the Armed Forces.

This is a very special day. It symbolizes the debt of gratitude we owe our veterans. It reminds us that the freedom we enjoy has endured intact because millions of patriotic men and women answered their country's call to service and sacrifice.

Our veterans have not sought glory for themselves but peace and freedom for us all. They represent the spirit that has preserved us as a great nation. They deserve our recognition for all they have done.

NOW, THEREFORE, I, Jimmy Carter, President of the United States of America, invite all Americans to observe Saturday 11 November 1978, as Veterans Day and on this historic occasion, let us resolve anew to keep faith with those whose love of country has set them in an imperishable roll of honor.

I urge all the families and friends of our sick and disabled veterans to visit them and to extend to them a grateful nation's promise that they will not be forgotten.

I call upon federal, state, and local government officials to mark Veterans Day by displaying the flag of the United States, and by encouraging and supporting public involvement in appropriate ceremonies throughout the country.

IN WITNESS WHEREOF, I have hereunto set my hand this eleventh day of September, in the year of our Lord, nineteen hundred and seventy-eight, and of the Independence of the United States of America, the two hundred and third.

/s/ JIMMY CARTER

Special holiday hours to be observed by business, recreation facilities on Center

Some unusual changes in the hours of operation at business and recreation facilities on the Naval Weapons Center will result from the nationwide federal holiday on Friday in observance of Veterans Day (formerly Armistice Day), which has been returned to its original date of Nov. 11 on this, the 60th anniversary of the end of World War I.

The Navy Exchange will be open tomorrow (Friday) from 10 a.m. until 5:30 p.m., and on Saturday from 10 a.m. until 2 in the afternoon. The Service Station, however, will be closed tomorrow and then will reopen Saturday from 8:30 a.m. until 5 p.m.

The Commissary Store will be open both days, Friday hours will be 10 a.m. until 5:30, and Saturday hours, 8:30 a.m. until 4 p.m. The Barber Shop will be closed all

weekend.

The Center Library will be closed on Friday, but will maintain its usual Saturday hours of noon to 6 p.m.

The camping issue unit, ceramics shop, main hobby shop, indoor pool, and skeet and trap range will all be closed tomorrow.

Other facilities open on Friday are the auto hobby shop, from 11 a.m. until 10 p.m.; Hall Memorial Lanes for bowling from 11 a.m. until 11 p.m.; and the golf course from 7:30 a.m. until 4 p.m.

The Center gym will follow its usual holiday hours of 11 a.m. until 7 p.m., and the Youth Center will be open from 1 p.m. until 5 p.m.

All Special Services activities will resume normal weekend hours on Saturday and Sunday except the auto hobby shop, which will be closed on Sunday.

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 094 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WO, WL and WS positions are defined in CSC Handbook X-118C.

Computer Programmer, GS-324-9/11/12, PD No. 7842010E, Code 6224 — This position is located in the Data Reduction Branch, Range Operations Division, Range Department. The incumbent will be responsible for the analysis, design, development, and implementation of state-of-the-art digital computer software. The incumbent will be expected to maintain a portion of the Branch software and be responsive to unpredictable demands for software modification on crash time scales. **Job Relevant Criteria:** Ability to communicate effectively verbally and in writing; ability to design and implement large complex computer software systems; ability to assess and evaluate software data as well as test instrumentation and data processing equipment.

Supervisory Personnel Staffing and Classification Specialist, GS-201-12/13, PD No. 7445023, Code 092 — Applications will be accepted from both NWC employees and status eligibles. This position is that of Head, Employment-Wage and Classification Division, Personnel Department and Principal Classifier for the Naval Weapons Center. Incumbent is responsible for developing and participating in the administration of programs in the areas of recruitment, placement, merit promotion, reduction-in-force, pay setting, job grading and position classification. If filled at the GS-12 level, promotion to GS-13 is dependent on demonstrated performance in the position. **Job Relevant Criteria:** Ability to provide employment program leadership; knowledge of classification and job grading; ability to effectively supervise and train a subordinate staff; ability to analyze complex problems and develop practical solutions; ability to communicate effectively, orally and in writing; incumbent must be knowledgeable of regulation, procedures concerning timekeeping, procurement of supplies, maintenance of filing, travel orders, correspondence, etc.

File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2955.
Electronics Technician, GS-854-5/6/7, PD Nos. 7835024N/7835038, Code 3553 — Applications will be accepted from both NWC employees and status eligibles. This position is located in the Threat Radar Evaluation/Development Branch, Countermeasures Division, Electronic Warfare Department, with a duty station in the Randsburg Wash Test Area. Duties are the adjustment and calibration of the circuitry of a subsystem(s) of a one-of-a-kind threat radar system that is used in the test/evaluation of electronic warfare and associated optical/electro-optical devices and tactics. An incumbent receives extensive training in radar operation, test equipment and radar circuitry, both formal and on the job, to enhance his/her knowledge of electronics. **Job Relevant Criteria:** Knowledge of basic electronic theory; working knowledge of circuitry used in radar subsystems; troubleshooting experience with electronic circuitry; experience using basic test equipment, such as multimeters, oscilloscopes, power meters, frequency meters; ability to take direction, to work in stressful test environment, to be sufficiently dependable to meet test requirements, to cooperate with peers. Promotion potential: GS-10. Status eligibles accepted.

Engineering Technician, GS-802-4/7, PD No. 7862107, Code 62122, (2 vacancies) — Potential to GS-9. This position is located in the Environmental Test Section of the Environmental Engineering and Evaluation Branch, Ordnance Test and Evaluation Division of the Range Department. The incumbent conducts non-routine environmental and safety tests of all classes of weapons, performing system calibration, operating test equipment and recording devices. **Job Relevant Criteria:** Experience in environmental testing involving the handling and testing of experimental and operational ordnance; familiarity with the construction and operation of ordnance such as bombs, rockets, missiles, pyrotechnic devices; ability to perform under tense conditions of testing situations.

File applications for the above with Jan Kieberlein, Bldg. 34, Rm. 204, Ph. 2577.
Quality Inspection Specialist, GS-1940-11, PD No. 7734008-2E, Code 3443 — Position is located in the Quality Control Branch, Engineering Prototype Division, Engineering Department. The incumbent verifies dimensional and physical characteristics of mechanical and electronic hardware to established requirements. This includes receiving inspection from vendors and contractors, configuration audits at NWC at contractor's facility, verification of manufacturing and assembly processes, and finished part inspection and test. **Job Relevant Criteria:** Knowledge of complex manufacturing processes and techniques; skill in quality control, production control, or inspection; knowledge of military and Federal standards specifications; knowledge of capabilities of inspection equipment; ability to communicate in both oral and written form.

Machined Parts Inspector, WO-3414-11, JD No. 814N, Code 3443 — Position is located in the Quality Control Branch, Engineering Prototype Division, Engineering Department. Incumbent performs product verification on a wide variety of mechanical components and assemblies to determine compliance of the physical characteristics to the established requirements. Sources of the product are Center shops, contractors, vendors, and other government facilities. Users of the product are Center projects, contractors, and other government installations. **Job Relevant Criteria:** Ability to do inspection (Machined Parts) work without more than normal supervision; operation of machine tools, technical practices (theoretical, precise, artistic); ability to use shop drawings, measurement and layout; and knowledge of materials. Supplemental qualification statement is required and must be picked up in the Personnel Bldg., Rm. 204.

Welder, WO-3703-10, JD No. 829N, Code 3447 — Position is located in the Mechanical Prototype Branch, Engineering Prototype Division, Engineering Department. Incumbent uses electric arc and gas welding equipment for welding, and gas equipment for brazing and soldering both ferrous and non-ferrous alloys. Weldments consist of ordnance items (missiles and ground support equipment), aircraft, ground transport, stationary and portable machine tools and pipe. Generally building, grounds, and utility maintenance welding, brazing, and soldering is required. **Job Relevant Criteria:** Ability to do the work of a welder without more than normal supervision; knowledge of materials, structures, etc.; of the trade; plan, layout, and set up welding work; shop drawings, specifications, welding procedures, etc.; hand tool, measuring devices, etc.; and safety and dexterity. Supplemental qualifications statement is required and must be picked up in the Personnel Bldg., Rm. 204.

Clerk-Typist, GS-322-3/4, PD No. 7834174N, Code 3448 — Position is located in the System Effectiveness Branch, Product Assurance Division, Engineering Department. Incumbent serves as branch receptionist screening visitors and incoming telephone calls. Incumbent initiates follow-up action correspondence, routing and determining when such correspondence will be answered, and insures that actions are completed on schedule. Prepares and edits correspondence and reports submitted by personnel in the branch. Performs timekeeping duties for branch. Procures supplies, equipment, repair, and maintenance services, etc., through appropriate channels. Prepares travel orders for the personnel in the branch. Responsible for maintenance and upkeep of files within branch per NWC instructions. Obtains documents and background information for supervisor. **Job Relevant Criteria:** Incumbent must be a proficient typist, particularly familiar with the Magnetic Card/Selective Typewriter. Incumbent is required to be able to recognize and put into use appropriate format and grammatical usage for each document prepared. Incumbent must be knowledgeable of regulation, procedures concerning timekeeping, procurement of supplies, maintenance of filing, travel orders, correspondence, etc.

File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2955.
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MDISL flag football tourney won by team from Norton AFB

Championship of the Mojave Desert Inter-Service League flag football tournament, played here last Saturday and Sunday, was won by the team from Norton Air Force Base in San Bernardino.

In this six team event, the squad from Norton AFB lost its first tourney tilt, 7-0, to Nellis AFB, but went on from there to post five straight victories, including a 13-7 victory over Nellis AFB in the second rematch between these two teams which decided the tournament title.

Scores of the games won by the tourney champs prior to the title tilt, in the order that the games were played, were: Norton 12, NWC 8; Norton 25, Barstow Marines 6; Norton 13, March AFB 6; and Norton 12, Nellis AFB, 7.

Close scoring games were one of the trademarks of this tournament. The NWC team, led by quarterback Andy Price, was



TROPHY PRESENTED — The perpetual trophy for winning the MDISL flag football tourney was presented by Bob Huey (at right), head of the Recreation Branch in the NWC Special Services Division, to Herbert Tiedeman, coach of the Norton Air Force Base team. The latter is holding one of the individual trophies that each member of the winning team received.

defeated 14-6 in its first tourney appearance by March AFB, and was later eliminated from competition by a 12-8 defeat at the hands of the Norton — the eventual tourney champs.

The NWC vs. March AFB game was a scoreless tie at the end of the first half, but the visitors from Riverside then scored once and added 2 points on a run for the PAT to take an 8-0 lead. This was reduced to 8-6 when Price countered with a TD for the China Lakers on a 10-yd. sweep around left end.

Later in the game, the March AFB squad clinched the victory with another touchdown that made the final score 14-6.

Dropped into the losers' bracket as a result of this first round defeat, the NWC team came out on the short end of a 12-8 score against Norton AFB. A 38-yd. pass

Admiral's Cup . . .

(Continued from Page 6)

tallied on a run which picked up the final 15 yds. to the goal line.

The score remained the same, 20-6, in favor of NWC North until the final minute of play when Price, who was back in at quarterback for NWC North, scored on a 15-yd. run to make the final count 26-6 in favor of the North.

Current standings in the Admiral's Cup athletic competition are 18 points for NWC North, 12 for VX-5, and NWC South is trailing with 6.

from Price to Robert Ross, halfback for NWC, produced a touchdown which, coupled with a 2-pt. conversion after the score, gave the China Lakers an 8-6 half-time lead over Norton.

The Norton team still had enough of an edge, however, to score one more time and pull out a 12-8 win over NWC in the second half of this game.

Even though the team from Nellis AFB was able to post a 7-0 first round win over Norton AFB in the tourney opener, the team from Las Vegas had a struggle on its hands in each of the remaining games it played in the winners' bracket.

The Nellis squad edged the Barstow Marines 6-0, was held to a 0-0 tie in regulation time by March AFB, and then lost its first rematch with Norton AFB, 12-7.

This set up the title-deciding second rematch that was won, 13-7 by Norton.

The flag football tie-breaker rule was invoked in the scoreless contest between Nellis and March AFB. It called for each team to alternate on offense for four plays, with the winner by a score of 1-0 being determined by which team had been able to advance the ball deepest into its opponents' territory.

(Continued from Page 2)

Termesures Branch, Microwave Development Division, Electronic Warfare Department. The incumbent performs detailed and specialized engineering analysis, design and development of radar systems and components. He develops radar countermeasures techniques and circuits which are evaluated both analytically and by actual field tests against actual radars. **Job Relevant Criteria:** Detailed knowledge of radar systems analysis (including statistics and time frequency analysis). Previous experience with radar systems development and testing.

Operations Research Analyst, GS-1515-7/9/11/12, PD No. 7512012, Code 12 — This position is located in the Weapons Planning Group. The incumbent will be assigned to one of the Program areas and will be involved in analysis studies covering a wide range of subjects. Typical duties involve analyzing performance of existing and proposed designs of weapons and components of weapons; investigating weapon requirements; reporting results of analysis; writing and oral presentations. **Job Relevant Criteria:** Familiarity with (1) the operation and utilization of large scale computers (2) procedures for obtaining unprocessed information (3) military operations and tactics. This position could be filled from any of the engineering or scientific disciplines which provide a significant preparation in mathematics. (2 vacancies).

Electronic Engineer, GS-855-12, PD No. 7835129E, Code 3543 — This position is located in the Countermeasures Branch, Microwave Development Division, Electronic Warfare Department. The incumbent performs all necessary background investigations and theoretical analysis to determine feasibility for developing new airborne and missileborne radar system and subsystem design concepts in the areas of radar detection, target location, acquisition and tracking. **Job Relevant Criteria:** Extensive skills involving detailed radar analysis as applied to target detection for missile or airborne radars; knowledge of missile or airborne radar hardware, skills in the areas of electromagnetic and microwave theory, advanced mathematical techniques, principles of high resolution radar, radar clutter and multipath modeling, MTI and pulse doppler radar, and radar detection theory.

Electronics Technician, GS-854-5/6/7, PD Nos. 7835040N/7835041N/7835042N, Code 3553 — Applications will be accepted from both NWC employees and status eligibles. This position is located in the Threat Radar Evaluation/Development Branch, Countermeasures Division, Electronic Warfare Department, with a duty station in the Randsburg Wash Test Area. Duties are operating, aligning, calibrating and repairing one-of-a-kind threat radar systems that are used in the test/evaluation of electronic warfare and associated optical/electro-optical devices and tactics. An incumbent must establish and maintain complete electronic interferences on assigned radar subsystems, and assist in providing technical expertise to engineers responsible for modification of the threat radar systems to which assigned. **Job Relevant Criteria:** Knowledge of radar subsystems design; troubleshooting experience with radar subsystems; systems; experience using test equipment to include RF sweepers, spectrum analyzers, frequency synthesizers, IC analyzers, pedestal servo system analyzers; ability to work well with others in pressure situations. Demonstrated ability as a radar operator. Promotion potential: GS-10. Status eligibles accepted.

Program Analyst, GS-345-5, PD No. 7835146N, Code 3551 — This position is located in the Countermeasures Division, Electronics Warfare Department, with a duty station in the Randsburg Wash Test Area. The incumbent is responsible for collecting and analyzing data associated with utilization, cost analysis, projects and requirements of the Electronics Warfare Threat Environment Simulation (EWTES) Facility in order to project or forecast requirements and usage of the facility. **Job Relevant Criteria:** Ability to communicate effectively, both orally and in writing; ability to organize, manipulate and analyze quantitative data; ability to work independently; ability to work effectively with others. Promotion potential: GS-9.

Administrative Officer, GS-341-7, PD No. 7832035, Code 3502 — This position is located in the Staff Office, Technical Information Department. As Contract Services AO, the incumbent is the central point of contact for the financial accounting systems and terminology; ability to construct work-flow and schedule charts; ability to work independently; ability to work effectively with others in a coordinative capacity.

File applications for the above with Mary Morrison, Bldg. 34, Rm. 210, Ph. 2293.
Administrative Assistant, GS-341-7, PD No. 7832035, Code 3502 — This position is located in the Staff Office, Technical Information Department. As Contract Services AO, the incumbent is the central point of contact for the financial accounting systems and terminology; ability to construct work-flow and schedule charts; ability to work independently; ability to work effectively with others in a coordinative capacity.

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Burros lose close game to West High . . .

(Continued from Page 6)

fell incomplete in the end zone. Burros fans raised a howl on this play when the pass defender got his feet tangled up with the would-be receiver, who fell to the ground before he could reach the ball.

No penalty was called, however, and on fourth down Drake was stopped 2 yds. short of scoring a go-ahead touchdown.

The ruckus that resulted when the ball changed hands led to a 15-yd. penalty against Burroughs, which got the Vikings out of a hole on their own 2-yd. line, and the

Youth Center basketball

league registration open

Registration for Youth Center basketball league competition began on Nov. 1, and will continue for the remainder of the month at the Youth Center (formerly the youth gym, located on Richmond Road).

Plans call for the formation of five leagues composed of youngsters from 7 years of age up through the seniors in high school.

To be eligible to participate, all prospective basketball league players must be members of the Youth Center and pay an additional registration fee of \$8.50 to help cover expenses of the 1978-79 basketball season.

visitors gained 10 yds. out to the 27 on a run by Herald. Three plays later, however, Roger Pack came up with a pass interception and the Burros had the ball back on their own 45.

The hopes of Burroughs High fans, who were momentarily elated by another turnover which gave their team the ball, dropped again a few plays later when it was the Vikings' turn to come up with a pass interception (their third of the game) which gave them the ball on their own 28 yd line.

With time running out in the fourth quarter, Gritton broke through to block a fourth down punt by West, and the Burros offense had just a little less than 2 min. to score.

Two plays later, however, a pass from Drake to Tomaras ended in a fumble recovery by the Vikings on their own 42, and the visitors were able to run out the clock and settle for a hard-fought 12-7 victory.

Think Safety

Take care when you're driving, don't take off like a rocket!
Cause accidents cost money and take dollars out of pockets.

Promotional Opportunities

desives recommendations to improve same. Establishes work priorities with contractors, consistent with contractor capabilities. Insures that contract provisions are met and that contracts are used in accordance with DoD, Navy, and NWC regulations. Recommends and advises on changes in contract requirements which are necessary to meet changing needs. **Job Relevant Criteria:** Ability to work independently under stress; knowledge of accounting systems for contract services; knowledge of security regulations for handling classified material; ability to work harmoniously but effectively with all levels of personnel.

Physical Science Technician, GS-1311-4, PD No. 7830642, Code 382 — The incumbent provides support to the scientific staff in the preparation of samples of combustion residue and ingredients. In the laser ignition program, the incumbent is responsible for performing to no-go and other ignition experiments using the NWC Laser Ignition facility. In the closed bomb program the incumbent may help gather pressure-time data using a high loading density closed combustion bomb. The incumbent prepares samples of propellant residues for analysis. The incumbent assists senior investigators in the analysis of combustion residues and in determining the thermal decomposition properties of propellant components. **Job Relevant Criteria:** Experience in laboratory procedures; familiar with sample preparation and the use of a microscope. Promotion potential: GS-11.

File applications for the above with Pat Gaud Bldg. 34, Rm. 212, Ph. 2514.

Clerk-Typist, GS-322-3 or Medical Records Clerk (Typing), GS-675-4, PD No. 7840404N, Code 943 — This position is located in the Occupational Health Service of the Naval Regional Medical Center Branch Clinic at China Lake. Incumbent maintains approximately 4,000 records of Civil Service and non-appropriated personnel, establishes medical records for new employees, maintains a civil service appointment system for routine doctor's visits, physical exams, physical therapy, prepares written requests for medical records from various providers of care (military and civilian) and insures that proper release authorization is obtained and forwarded; organizes office work and determines the priorities for completion of work, prepares reports and types duty slips, X-ray and lab charts. **Job Relevant Criteria:** For Clerk-Typist — ability to compose and type simple letters, working knowledge of dictating machine, ability to comprehend and apply a variety of regulatory and procedural information. Medical Records Clerk — ability to understand and decipher medical terms, ability to compose and type simple letters, working knowledge of dictating machine, and knowledge of medical records. This is a reassignment. Previous applicants will be considered and need not reapply.

Mail/ File Clerk, GS-305-3, PD No. 7839119, Code 39023 — This position is located in the Weapons Department Office. The incumbent provides services for the entire department in the areas of mail control (including mail, files, records and reproduction); serves as the focal point for the department's records. **Job Relevant Criteria:** Knowledge of the Center's organization; ability to work with a minimum of supervision; ability to deal effectively with people; ability to organize files.

File applications for the above with Leah Reschke, Bldg. 34, Rm. 206, Ph. 2723.
Administrative Assistant, GS-341-7, PD No. 7832035, Code 3502 — This position is located in the Weapons Department Office. The incumbent provides services for the entire department in the areas of mail control (including mail, files, records and reproduction); serves as the focal point for the department's records. **Job Relevant Criteria:** Knowledge of the Center's organization; ability to work with a minimum of supervision; ability to deal effectively with people; ability to organize files.

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The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake, California

Rear Admiral William L. Harris
NWC Commander

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DEADLINES

Tuesday, 4:30 p.m.
Tuesday, 11:30 a.m.

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Phones 3354, 3355, 2347





Rec. roundup

Team rosters for basketball due at gym today

Rosters for all teams planning to compete in the China Lake Intramural Basketball League are due at the NWC gymnasium office no later than 4 p.m. today.

All basketball season fees must be paid no later than Monday. In addition to the \$6 charge for an athletic activity card, there will be the costs of paying game officials which also must be met.

Turn in Football Equipment

Athletes who were members of teams participating in the recently concluded China Lake Intramural Flag Football League are asked to return their football equipment as soon as possible — and no later than the deadline of Friday, Nov. 17.

Roofing Work at Gym

Work on reroofing of the NWC gym will begin on Monday. While some windows and doors will have to be closed because of the work, it will not prevent the use of the gym and its facilities by holders of Athletic Association membership cards or by active duty military personnel for whom no fees are charged.

Blue Chip Bowling

Blue Chip bowling is scheduled every Saturday night, starting at 8 o'clock, at Hall Memorial Lanes. Individuals wishing to compete can make reservations by calling NWC ext. 3471. All bowlers are invited to participate.

72 runners compete in Over-Hill Track Club's 10 km race

The largest field ever — 72 runners — competed last Saturday in the Over-the-Hill Track Club's fourth annual 10 km. run, which was won by Marshall Matye, of the Culver City Athletic Club, in the fast time of 33 min., 47 sec.

Matye, who competed in the division for men 30 to 39 years of age, finished just ahead of Marvin Rowley, the previous record holder for this event, who was clocked at 34:39.

Two well-known local runners — Frank Freyne and Tom McMahon — turned in good times of 35:11 and 35:32, respectively, while Steve Stubbs made it a clean sweep of the first five places for men in the 30- to 39-year-old division by finishing in 36:39.

Two other runners were under the 37 min. mark for the 10 km. race over a flat course which wound around through the streets of the NWC housing area. They were Dennis Stansauk, winner in the 20- to 29-year-old age division (36:49), and Norm Nieberlin, who posted a personal best time by his first place finish in 36:52 in the division for men 40- to 49-yrs. of age.

Others who placed first in their divisions of the race, and their times, were Danny Rugg, boys 14 yrs. old and under (40:22); Jim Bailey, young men 15 to 19 (37:51); Marvin Powers, of Lancaster, men 50 yrs. old and over (38:31).

Fastest of 12 feminine entrants in the race was Kathy Bailey, winner in the 15- to 19-yr.-old group (43:54). Other women runners who won their divisions, and their times, were Laura Effinger, girls 14 yrs. of age and under (65:70); and Suzanne Haney, women 30 yrs. of age and over (44:29).

The next event planned by the Over-the-Hill Track Club is a 3-mile turkey trot on Thanksgiving morning. The race will begin at 9 a.m. at Cerro Coso Community College.

Burros edged by West High; ready for Homecoming

Fired up by Homecoming and with a lot of frustration to work out following last Friday night's 12-7 loss to the unbeaten West High Vikings, the Burroughs High School varsity football team will host the Indians from Hart High School tonight in their next-to-last Golden League game of the season.

Kick-off time will be 8 p.m. for the varsity clash, which will be preceded by a sophomore contest between Burroughs and Hart that will get underway at 5.

The previously undefeated Burros sophs will be out to make up for their first loss this fall — a 28-12 defeat at the hands of their counterparts from West High last week.

The Vikings from Bakersfield came into last Friday night's contest as solid favorites, but in a mistake-ridden game left here lucky to still have their win streak (which now stands at 20 games) unbroken.

The Burros defense, which has been the team's strong point all season long, did its job well in a scoreless first quarter. Linebackers Mark Gritton and Lance Hunter each recovered a fumble by West High, and defensive back Tim LaFromboise intercepted a pass.

With that series of miscues out of the way, however, the visitors settled down and put together a 54 yd. touchdown drive the first time they got their hands on the ball in the second quarter.

Key plays were a quarterback keeper by Jim Maples, the Vikings signal-caller, who gained 11 yds. and a 1st down on the BHS 43; a pitchout to halfback Bill Herald, which moved the ball to the Burros 26; and an option play which ended with Maples pitching the ball out to Norman Canby, principal ground gainer for the Vikings,

who went down the left sideline for 25 yds. and a first down on the BHS 1-yd line.

Maples then kept the ball himself and dived in for a touchdown on the next play. The try for the PAT was no good, but West High was out in front 6-0.

That turned out to be all of the scoring in the first half, which ended with the interception of a pass thrown by quarterback Richie Drake of Burroughs.

Returning to the field following the halftime intermission, the Burros kicked off and dropped the Viking ball carrier on the West High 19. The third recovery of a West High fumble — this time by Blaine Robinson — gave BHS the ball on the visitor's 12-yd. line and set the stage for a touchdown by the local high school eleven.

Burros Grab Lead

It took just one play — a quarterback keeper by Drake — for the Burros to hit paydirt. Scott Cary booted the PAT and the partisan crowd roared its approval as the Burros took over the lead, 7-6.

Whatever pre-game complacency the Vikings may have felt about retaining their unblemished record by defeating Burroughs suddenly was gone, for the West High team responded with a scoring drive following the ensuing kickoff.

Canby was the workhorse of this push as he caught a pass from Maples for a gain of 15 yds. and a 1st down on the BHS 34, and then broke loose for 18 more yds. on a run to the 16.

Two more cracks at the line netted 6 yds. each for Starkey and Canby, and with the ball on the BHS 4 yd. line, Canby carried it into the end zone in two tries. An attempt to score 2 points on another running play after the touchdown failed, forcing the Vikings to settle for a 12-7 lead.

The Burros offense sputtered into motion on its next possession of the ball — thanks largely to a 30 yd. gain on a pass from Drake to Kevin Kummerman, tight end for BHS, which gave the locals a first down on the West High 32.

Fumbles Exchanged

Two plays later, however, a pitchout went astray and West High recovered the ball on its own 39. The favor was returned when Hunter pounced on a fumble by the Vikings and the locals regained possession on their own 45.

With time rapidly running out in the third quarter, Mark Urseth, flanker for the Burros, scampered 26 yds. to the West High 19, and Bob Tomaras kept this drive going by catching a flat pass that produced a 1st down at the 9 yd. line.

Two running plays by Frank Mayer moved the ball to the 4, but a 3rd down pass

(Continued on Page 7)

Swim meet will be next event in race for Admiral's Cup

A swimming meet, a new event which replaces water polo in the Admiral's Cup athletic competition, will be held next Thursday, Nov. 16, starting at 8 p.m. at the Center gymnasium swimming pool.

Military men or women interested in entering the swimming meet should contact Roy Tefft (ph. ext. 5496) or Peggy Carpenter (ext. 5488), of NWC North; Pete Whipple or Sam Thompson (ext. 3314), of NWC South; or Rich Booth (ext. 5390) of VX-5.

Eight events are scheduled during the meet. Included are a medley race for teams composed of three men and one woman who will swim four lengths of the pool using a different stroke — breaststroke, sidestroke, backstroke and freestyle — on each lap; and a four-length freestyle relay for teams composed of two men and two women.

In addition, there will be a 2-length freestyle race for men, a 1-length freestyle race for women, individual 1-length sidestroke, backstroke and breaststroke races open to both men and women, and an underwater distance swim open to both men and women.

(Continued on Page 7)



VIKINGS IN HOT PURSUIT — On this play, Mark Urseth (No. 9), flanker for the Burros varsity football team, picked up one of the longest gains of the night as he scampered 26 yards to the West High 19. This drive, for what could have been the winning touchdown by Burroughs, ran out of steam on the Vikings' 2-yd. line, however, and the visitors held on to win, 12-7. West High defensive backs attempted to catch up with Urseth are Randy Maples (No. 35) and Bill Herald (No. 40).

— Photo by Bob Mann

NWC North team wins flag football contests; boosts its lead in Admiral's Cup competition

The NWC North (airfield) team added to its lead in the Admiral's Cup athletic standings last week by winning the flag football competition.

The NWC North gridders edged VX-5, 13-6, in the first of the three games played, and wrapped things up with a 26-6 victory over NWC South in the third and final game of the series. In between the two tilts, VX-5 outscored NWC South, 13-0.

NWC North quickly took command of the game against VX-5 by receiving the opening kickoff and driving 40 yds. downfield for a touchdown. The scoring play was a 10-yd. pass from quarterback Andy Price to halfback Chuck Pike which gave NWC North a 6-0 lead. The try for the PAT was no good.

Before the VX-5 team could make the defensive adjustments that were necessary in order to shut down their opponents' attack, NWC North scored again during its second possession of the ball.

The same combination — a pass from Price to Pike — clicked for this score on a play that covered 20 yds. After this tally, the NWC North team cashed in on a pass from Price to Charles Barrows, the left end, to pick up the PAT and a lead of 13-0.

Early in the second quarter, the VX-5 Vampires battled back and were able to put their only 6 points of the game on the board. Halfback Kelvin McSwain hit paydirt after breaking loose on a draw play that gained 25 yds.

That turned out to be all of the scoring in the game for the VX-5 Vampires, who were unable to cash in on the PAT try. In the closing minutes of the contest, a penalty stalled a drive by VX-5 that had carried the Vampires to the NWC North 16 yd. line.

The crucial game of the Admiral's Cup flag football series was over, but VX-5 salvaged second place in this event by shutting out NWC South (mainside) 13-0 in game No. 2.

2nd volume of Naval Weapons Center history just published

Although unplanned, it is nonetheless appropriate that the second volume of the Naval Weapons Center's history, "The Grand Experiment at Inyokern," came off the presses of the Government Printing Office on Nov. 8, precisely 35 years after the inauguration of the historical event reported in this volume of the Center's history.

As with the first volume, "Sailors, Scientists, and Rockets," the latest book is a joint effort of the Naval Weapons Center and the Division of Naval History, with the Center preparing the history and the History Division printing and distributing it through the Government Printing Office.

The book covers two particularly important and contrasting periods of the history of the Center, then designated the Naval Ordnance Test Station (NOTS). First, the narrative covers the outstanding era of cooperative effort during World War II between the scientists of the California Institute of Technology and the Navy staff at NOTS.

Next is the story of the difficult post war years of transition when the Navy took over the management of the research and development programs of CalTech. The enlightened concepts of research and development management that emerged were unique in their time, and the implementation of them was appropriately characterized by Dr. L. T. E. Thompson, the Center's first Technical Director as "the grand experiment at Inyokern."

The introduction to the book is by Rear Admiral John D. Kane, Jr., Director of Naval History. Co-authors are John D. Gerrard-Gough, the principal writer, and A. B. Christman, the principal researcher. Principal editor was Georgia M. Cabe. Barbara K. Manley was in charge of composition.

By a second coincidence of dates, the publication of the book in early November serves as a parting tribute to author Gerrard-Gough who on Nov. 3 transferred from his position here as head of the Special Writing Projects Branch to become Chief of the Reports Branch, Air Force Weapons Laboratory, Kirtland Air Force Base in Albuquerque, N.M.

Upon arrival at the Center, copies of the new book will be made available through local libraries and key offices of the Center. It and the first volume will be on sale through the Superintendent of Documents, Washington, D.C.

TD Award . . .

(Continued from Page 1)

normally, allowing the dummy and the ejection seat to float back to the ground.

The inverted cockpit ejection test had been preceded by a wings-level ejection. Both tests demonstrated safe recovery at low-altitude, adverse-attitude conditions that currently result in a high percentage of fatalities in aircraft accidents.

These tests, according to Carl Schaniel, head of the Ordnance Systems Department, who nominated Stone and Stoutmeyer for the Technical Director Award, have effectively opened up a new dimension by successfully demonstrating successful recoveries under conditions far in excess of the capabilities of any existing aircraft ejection seat.

In spite of the magnitude of the improvement involved, the work was accomplished in a timely manner and on an austere exploratory development budget, Schaniel pointed out.

"This," Schaniel wrote, "was only possible because of the willingness of the individuals involved to take prudent technical risks based on sound technical evaluation of available data, and their ability to perceive and employ every available cost savings opportunity."

"A pioneering spirit and enthusiasm existed on this program which is reminiscent of NWC's heritage and is rare in these times of decreasing laboratory hardware involvement," the head of the Ordnance Systems Department observed.

In some cases, leave forfeited at end of year may be restored

Annual leave that is forfeited at the end of the year due to on-the-job operational demands may be restored if the following conditions are met:

(1) Command determines that the operational demands are important enough to warrant cancellation of the approved leave, and (2) the annual leave was scheduled at least three pay periods prior to the end of the leave year (this year by Dec. 1, 1978).

A memo dated Oct. 18, 1978, which explains the procedures for restoring forfeited annual leave which meets the above conditions, has been sent to departments, divisions, and branches. If further information is needed, contact Nancy Cleland by calling NWC ext. 2018 or 2582.



TIME-HONORED RITUAL — Col. L. A. Madera (center), head of the USMC Liaison Office at NWC, cut the first slices from the Marine Corps birthday cake during a ceremony that highlighted the annual Marine Corps Ball. Looking on in background is the guest of honor, Maj. Gen. Stephen G. Olmstead, Commanding General of the Marine Corps Base at Camp Pendleton. The cake escorts are Gy / Sgt. R. D. Baldwin (at left) and Gy / Sgt. P. J. Proctor.

Marine Corps 203 years old; birthday ball held at COM

The 203rd anniversary of the founding of the U.S. Marine Corps by a resolution of the Continental Congress on Nov. 10, 1775, was celebrated here last Saturday night during the annual Marine Corps Birthday Ball, which was held at the Commissioned Officers' Mess.

Two hundred guests attended this special affair in honor of the "Soldiers of the Sea," and in so doing joined comrades in this nation and around the world who have, since 1921, carried out the directive of General John A. LeJeune, 13th Commandant of the Marine Corps, to observe



OLDEST MARINE SERVED — Col. Madera hands a slice of the Marine Corps birthday cake to Col. Burke West, USMC (Ret.), the oldest former Leatherneck present at the Marine Ball. First slice of the cake went to Maj. Gen. Olmstead (in center).

the Marine Corps birthday in a manner befitting the long and glorious tradition of the Corps.

Guest of honor at the 1978 Marine Corps Ball was Major General Stephen G. Olmstead, Commanding General of the Marine Corps Base at Camp Pendleton, who is a 30-year veteran of service in the Marines, and the list of honored guests was headed by Rear Admiral William L. Harris, NWC Commander, and his wife, Jean.

Maj. Gen. Olmstead's varied and challenging career in the Marine Corps began in 1948. He served as a squad leader in the 1st Marine Division during the Korean Conflict, and later (in 1951) was commissioned a second lieutenant after attending Officer Candidate School at Quantico, Va.

He also served as an infantry battalion operations officer and commanding officer of a reconnaissance company while assigned to the 2nd Marine Division.

In addition, he was an instructor at the U.S. Army Intelligence School, Fort Holabird, Md., the Command brief for the U.S. Military Assistance Command in Vietnam, and was an operations officer on the Joint Strategic Target Planning Staff at Offutt Air Force Base in Nebraska.

Advanced to the rank of brigadier general

in 1976, he was assigned to the post of Deputy for Development, Headquarters Marine Corps, and Director of the Development Center, Marine Corps Development and Educational Command.

Maj. Gen. Olmstead assumed his current duties at Camp Pendleton on June 30, 1978. A social hour accompanied by field music played by the 1st Marine Division dance band from Camp Pendleton preceded the time-honored cake-cutting ceremony and reading of the birthday message written in 1921 by General LeJeune.

Birthday Message Read

In this message, which is now 56 years old, General LeJeune recalled that "in every battle and skirmish since the birth of our Corps, Marines have acquitted themselves with distinction — winning new honors on each occasion until the term 'Marine' has come to signify all that is the highest in military efficiency and soldierly virtue."

"So long as the spirit which Marines today received from those preceding us in the Corps . . . continues to flourish, Marines will be found equal to every emergency in the future as they have been in the past," the famous Marine General's prophetic message continued, "and our nation will regard us as worthy successors of the long line of illustrious men who have served as 'Soldiers of the Sea' since the founding of



CEREMONY GETS UNDERWAY — Pomp and ceremony that included participation of a color guard from the Marine Corps Base at Camp Pendleton led up to the highlight of the Marine Ball — the cutting of a cake baked in honor of the 203rd birthday of the U.S. Marine Corps. The escort standing at left with sword drawn is Capt. William S. Buttrill.

—Photos by Ron Allen



YULETIDE GALA—Rear Admiral William L. Harris, Center Commander, was the first to purchase a ticket for the all hands Christmas party to be held at the Community Center on Friday, Dec. 1. RAdm. Harris noted to FTC's Dave Vander Houwen and Lt. Tom Fellin (l. to r.) as they sold him his tickets that he was looking forward to extending his personal holiday greetings to all of the Center's military and civilian personnel that evening. Tickets for prime rib dinners are \$8.50, and for chicken are \$6 per person; military personnel will receive a \$2 discount per ticket for themselves and their spouses or dates. Music for dancing following dinner will be provided by the 11th Naval District dance band. Tickets are on sale at the message office in Hangar 3, the barber shop in Hangar 2; the Military Personnel Office, and in Lauritsen and Michelson Laboratories. —Photo by Ron Allen

Annual Homecoming fete set this weekend at Burroughs High School

Burroughs High School's annual Homecoming celebration began today and will be climaxed by a dance on Saturday night from 8 to midnight in the local high school multi-use room.

The main attraction today, which is "Spirit Day" on the BHS campus, will be a pep rally from 2 to 3 p.m.

"Spirit Day" is to be topped off this evening by fun and games at the high school gym. Slated to begin at 8 o'clock are such inter-class and individual competitive events as a sack race, a pie-eating contest and a suitcase race. The admission price is 25 cents per person tonight at the BHS gym.

On Friday, which is a school holiday, work that has gone into preparation of Homecoming floats by the freshman, sophomore, junior and senior classes will be judged at 3 p.m., and all will then be in readiness for the Homecoming gridiron contests between the Burros sophomore and

Navy Sabbath to be observed this weekend

Navy Sabbath will be observed this weekend with special services at the All Faith Chapel, starting with services by the Hebrew congregation on Friday evening and concluding Sunday with services by the Protestant and Catholic congregations.

The theme of the Navy Sabbath this year is "Helping Preserve Freedom for 203 Years." Navy men and women attending the religious services of their choice are asked to wear their uniforms in honor of the special event.

Navy Sabbath was established in 1966 by laymen members of the Naval Reserve Association to show the nation's gratitude for the courage, charity and fortitude shown by the Navy and Marine Corps.

Churches throughout the nation will be involved in honoring the Navy Sabbath.

PLAN	OPTION			
	High Self	High Family	Low Self	Low Family
Blue Cross/Blue Shield	\$10.75	\$24.03	\$1.73	\$5.02
Aetna	7.63	12.60	2.43	5.75
American Federation of Gov't Employees	6.11	12.50		
Alliance Health Benefits Plan	6.03	15.21		
American Postal Workers Union Plan	7.91	20.43		
Gov't Employees Hospital Ass'n	5.00	8.63		
Mail Handlers Benefit Plan	4.17	15.35	2.56	7.21
Nat'l Ass'n of Letter Carriers Health Benefit Plan	7.57	19.72		
Postmasters Benefit Plan	12.22	23.23	1.45	3.53

Centerite commands reserve unit trained to augment crew of regular Navy frigate

LCdr. Larry E. Parrent, a Naval Reserve officer who is employed as an auditor on the Naval Weapons Center's Internal Review Staff, recently took command of a Naval Reserve unit whose mission is to train personnel to augment the crew of the USS O'Callahan, fast frigate No. 1061, in time of recall and mobilization.

The USS O'Callahan, an active ship of the line, has an anti-submarine warfare mission, and the unit which LCdr. Parrent is now commanding is a selected group under the direction of the Commander, Naval Reserve Readiness Command, Region 19 in San Diego.

The unit's manning allowance is five officers and 66 enlisted personnel of varied rates. The unit also has training and administrative responsibility for five ad-

In conjunction with the change of command there also was a retirement ceremony in honor of the 20 years of active and reserve military service performed by AT1 David Glover, USNR-R, who is a lead electronics technician in the Walleye Projects Branch of the NWC Weapons Department.

AT1 Glover has been the leading petty officer for electronics technicians in the FF1061 Operations Department, and also served for seven years with the China Lake unit of Reserve Mobile Construction Battalion 17.

Other China Lakers who are members of the FF1061 Naval Reserve unit are Jeff Matlick and Nelson Foucher, an electronics technician and leading electronics technician, respectively, in the Weapons Department's Signal Process and Control Branch. Their current ratings are fire control technician chief (FTMC) and fire control technician 1st class.

Naval Weapons Center employees with past Navy experience in shipboard rates who are interested in the Selected Naval Reserve Program can obtain information by calling Parrent at NWC ext. 3555, or after working hours at 375-9167.

Vets Day program slated at VFW Hall in Ridgecrest Sat.

A patriotic program in observance of Veterans Day will be held on Saturday, starting at 11 a.m., at the VFW Hall, 117 Alford St., Ridgecrest.

The guest speaker will be Cdr. Rodney A. Knutson, head of the Military Administration Department and Commanding Officer of Enlisted Personnel at the Naval Weapons Center.

Cdr. Knutson, who was a prisoner of war for more than seven years in North Vietnam, will speak on "What America Means to Me."

LCdr. R. C. Wallace, ChC, USN, is to deliver the opening invocation and will close the program with a benediction. The vocal soloist will be Lenore Edwards, 2nd vice-commander of John M. Armitage Post of the American Legion, who will sing



LCdr. Larry E. Parrent, USNR-R

ditional officers and 25 enlisted personnel who live within a 150 mile radius of Bakersfield, but hold mobilization billets at scattered points around the U.S. that are impractical to reach for weekend drills.

Training elements or divisions of LCdr. Parrent's unit travel to the O'Callahan in San Diego or to the shipboard simulator located at the Naval and Marine Corps Reserve Center in Encino, Calif., every three months in order to put classroom theory and technique into practice.

LCdr. Parrent, who is a surface warfare specialist in the Naval Reserve, took command of the FF1061 Naval Reserve unit during a change of command ceremony that was held at the Naval and Marine Corps Center in Bakersfield. He has served as executive officer of this unit since its inception in March 1977.



Cdr. Rodney A. Knutson

"America the Beautiful" and "Battle Hymn of the Republic."

Master of ceremonies for the Veterans Day program will be Lois Galvin, chairman of the Veterans' Coordinating Council, who invites all veterans' groups, fraternal and service organizations in the local area to participate by sending color bearers with their organizational banner and an American flag.

The NWC Sidewinder color guard and drill team will present the colors at the beginning of the program and later give a demonstration of precision marching maneuvers.

A potluck luncheon will be served in the VFW Hall following the local observance of Veterans Day.



EDWARDS FTC COMMANDER VISITS NWC—Rear Admiral William L. Harris, NWC Commander, presents a Naval Weapons Center plaque to Brig. Gen. Phillip J. Conley, Jr., Commander of Air Force Test Center at Edwards Air Force Base. Brig. Gen. Conley visited China Lake recently for discussions with RAdm. Harris and other Center officials on matters of mutual interest regarding test and evaluation programs and on the maintenance of desert area test ranges.

Air Force Flight Center Commander briefed during visit to China Lake

Brigadier General Philip J. Conley, Jr., USAF, Commander of the Air Force Flight Test Center at Edwards Air Force Base, visited the Naval Weapons Center recently to discuss matters of mutual interest with military and civilian officials here.

His discussions with Rear Admiral William L. Harris, NWC Commander, and other members of the Center's top management centered on test and evaluation matters and on the maintenance of desert area test ranges.

Brig. Gen. Conley is responsible for the flight testing of the Air Force's newest types of aircraft that is conducted at Edwards Air Force Base.

The general received briefings from RAdm. Harris and Bob Hillyer, the Center's Technical Director. He also heard from Captain R. B. Wilson, NWC Public Works

Officer, on geothermal resources and developments. Brig. Gen. Conley then toured NWC program and project laboratories, including those concerned with research and development of the Sparrow missile and the CCD seeker.

Following an overview on the Center's test and evaluation facilities and capabilities by C. J. DiPol, head of the Range Department, the general made a helicopter tour of NWC ranges before returning to Edwards AFB.

Accompanying Brig. Gen. Conley were Frederick N. Stollker, the Air Force Test Center's technical advisor; Col. William T. Twinting, Commander of the 6510th Test Wing; Col. Donald L. Flood, director of engineering for the 6510th; Col. Charles A. Roth, Edwards AFB base civil engineer, and Alvin P. White, deputy base engineer.

Brig. Gen. Conley took over as the Air Force Test Center's commander in March of this year.

Equipment modifications improve reception on TV Channels 22, 23

Equipment modifications made recently at the community-owned TV booster installation on Laurel Mt. have resulted in improvements in the quality of local television reception on TV Channels 22 and 28.

According to Jim Rieger, an electronics engineer in Code 6243 who is a member of the Indian Wells Valley TV and Radio Booster System Committee, the most notable changes are improvements in picture quality and color on Channel 28, a public service TV station in Los Angeles.

Energy consumption at Center declines during last 4 years

For the period of the past four fiscal years, total energy consumption at the Naval Weapons Center has dropped approximately 14.7 percent, according to an NWC energy profile drawn up this week by Dr. Cliff Stine, head of the Energy Conservation Office.

The major cost item in the energy consumption picture is the amount paid for electric power, which accounts for more than half the total.

Natural gas usage ranks second, but because it has been possible in some instances to shift to the use of fuel oil, less and less natural gas has been consumed at NWC from Fiscal Year 1975 through Fiscal Year 1978.

The financial outlay for fuel oil and for propane that is used for external heating at remote site operations and to power some vehicles are the two least expensive portions of the Center's energy consumption bill, the NWC energy profile shows.

During the four-year period covered in this comparison, reduced energy consumption has resulted in a savings to the Center of approximately \$750,000, Dr. Stine said.

Naval Reserve Weapons Center Support Unit holds change of command ceremony

Naval Reserve Weapons Center Support Unit 0176 now has a new Commanding Officer following its weekend drill held in October, when Cdr. John Bloore, USNR-R, relieved Capt. Gary Bailey, USNR-R.

Capt. Bailey had served as the unit's CO for the past two years. He has been reassigned to Naval Reserve Weapons Systems Support Unit 0776, another ready reserve group that also meets at China Lake.

Cdr. Bloore is employed by the Northrup

whose programs are received locally on Channel 55.

The installation of a buffer amplifier to one of the Channel 28 converters, which was done by Jim Wooley, newest member of the IWV TV Booster, Inc., board of directors, is responsible for the improvement, Rieger said.

In addition, FM radio station KLOS is back on the air after repairs to its antenna, and other work is pending that will improve the picture quality of TV channels 22 and 40.

In order for Indian Wells Valley residents to receive TV programs of Channels 22, 28 and 40, which are transmitted locally on channels 49, 55 and 53, respectively, it is necessary to have a UHF TV antenna aimed southwest in the direction of Laurel Mt. These three channels cannot be received from the transmitters on B Mt.

Regular maintenance work and the handling of special problems related to the operation of the Indian Wells Valley TV/FM radio radio booster system are made possible by local area residents' contributions of membership fees of \$5 per person or \$10 per household.

Persons who benefit from the local TV and FM radio booster system and wish to contribute to its support can do so by sending a check made payable to "TV Booster" to the IWV TV Booster, Inc., P.O. Box 526, Ridgecrest, CA., 93555.

Government employees' union to meet Monday

The next monthly meeting of Local 1781 of the American Federation of Government Employees will be held on Monday starting at 7 p.m. at 65-B Halsey Ave., China Lake.

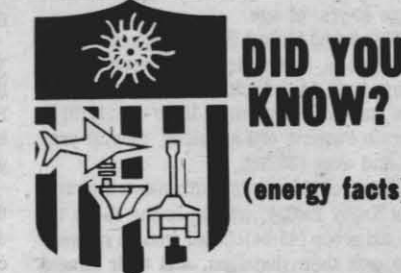
Local 1781 is the exclusive representative of a unit composed of those non-supervisory civilian employees of the Safety and Security Department's Police and Security Operations Division who are located at China Lake.

Corp. and lives in Los Angeles. He travels to China Lake for his unit's monthly weekend meetings. The Naval Reserve Weapons Center Support Unit (NRWCSU) is an organized component of the Naval Reserve that trains here one weekend a month and is ordered to active duty as a unit for two weeks of training every year.

The purpose of the group is to maintain proficiency in providing aircraft maintenance for the Naval Weapons Center, which is the job it would be assigned if called to active service during a national emergency.

Most of the unit's more than 20 members live in Los Angeles. They were assigned to drill with NRWCSU 0176 because of the availability of reserve billets in their specialties. This is the reason they must travel so far to attend drills here, Capt. Bailey explained.

Capt. Bailey is a civilian employee of the Naval Weapons Center and is associate head of the Aircraft Department's Base Operations Division.



Have you checked your hot water heater recently? Sediment should be flushed from it every month. Near the bottom of the tank there is a valve just for this purpose. Use it to drain several buckets of water from the tank. Removing the sediment will keep the heater operating efficiently.



RESERVE UNIT CHANGE OF COMMAND—Cdr. John Bloore, USNR-R (left) relieves Capt. Gary Bailey, USNR-R, as Commanding Officer of Naval Reserve Weapons Center Support Unit 0176. The change of command ceremony took place at Armitage Field recently during the unit's monthly weekend drill.

Historic data . . .

(Continued from Front Page)

a manufacturing plant for the experimental production of rocket propellants, and the loading of rocket motors."

"Work was begun under contract NOY 9088 in early February in the China Lake area, the permanent headquarters of the Station."

"Although the period from February to July 1944 was marked primarily by advances in construction, many notable achievements were accomplished at the Station in connection with Rocket Weapons. Among these were the development and testing of the 5-in. HVAR rocket known as 'Holy Moses'."

"A demand for a large airborne rocket brought forth the 11.75 in. Aircraft Rocket known as 'Tiny Tim. Under 'Project Tim' this rocket was developed and tested at the Naval Ordnance Test Station. The first round was fired 28 April 1944."

Reminiscences . . .

(Continued from Front Page)

it's a remarkable place.

Rose first came to NOTS as a Wave yeoman in 1944, and immediately went to work for Civil Service when she left the Waves in 1946.

"In those days we were doing something worthwhile and productive, and now, 35 years later, we are still doing something worthwhile and productive," Rose feels.

The only regret that either of them mention is best phrased by Ann McDuff when she says "there just aren't very many of us from the early days to reminisce with any more."



THE ROCKETEER
Monthly Publication of
NAVAL ORDNANCE TEST STATION
Inyokern, California
CAPTAIN S. E. BURROUGHS, Jr., USN
Commanding Officer
COMMANDER J. O. RICHMOND, USN(Ret.)
Executive Officer
Chaplain C. A. Reeves, Editor-in-Chief
Ch. Photographer R. E. Wing, Publisher
Patricia F. Olecki, Site Asst. Editor
Joe Brennan, The Sports Editor
Volume 1 ... No. 1
May 10, 1945

the editors and publishers
present with trepidation
a brand new publication
for your approbation

will we find elation
or consternation
on the station
in the nation
at this creation

or will speculation
theorization
and temporization
keep us on probation

for your stimulation
contemplation
and provocation
we hope you like it.

Your new station publication makes its debut with a deep, low bow. The name ROCKETEER, was submitted by Commander Gordon N. Lantz, Supply Officer, who won a twenty-five dollar war bond for his efforts. The "name the magazine" contest was judged by Commander J. O. Richmond and a committee.

employee
in the
spotlight

Joe Garrett

"... the old days were
sure a lot of fun, but ..."

By Mickey Strang

With the lowest pay number (00333) of anyone currently working at China Lake, Joe Garrett isn't exactly a plank-owner, but he's close to it.

When he arrived to go to work at what was then the Naval Ordnance Test Station, he'd spent 7½ hours on a Greyhound Bus coming up from Los Angeles, and he and his son had had to stand from Los Angeles all the way to Mojave before they'd gotten a seat. When they arrived they found a giant construction camp.

Most of the activity then in progress involved moving the equipment and work force from Inyokern to the new base under construction at China Lake.

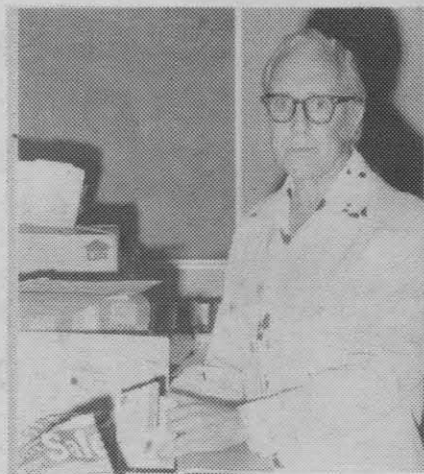
Joe did know a little of what to expect because his stepfather, Morton Ertl, had been working at NOTS since January 1944. Both he and his stepfather had worked for Cdr. Bob Appleton at the Naval Powder Factory at Indianhead, Md., and when Cdr. Appleton was transferred to China Lake, they followed.

Wife wasn't really prepared

"My wife wasn't nearly as prepared as I was for what conditions were like, though," Joe chuckles. "The first place we lived when she followed me here was in a 12-foot camp trailer parked in the Triangle. We had no bathroom or water in it, and had to go across the street to the construction area for either one. To add to the touch of the old and primitive West, she wasn't prepared for the stream of Navajo Indians who had been hired for construction work trudging past the door at quitting time, either."

Fortunately the Garretts didn't have to stay in the trailer for long. They were soon able to move into a duplex on Fowler Street even though it had no tile on the floor yet. No tile was far preferable to no water.

Their first Easter here was a memorable one. Services were held in a modified quonset hut at the corner of Blandy and



Hussey, a building that subsequently became the Enlisted Club before finally being torn down to clear ground for the new Enlisted Mess now in use.

"We walked over from our duplex, all dressed up for Easter services," Joe reminisces, "and then the wind began to blow." He notes that when the wind blew in those days, there was no vegetation, no lawns, shrubs, or trees, to cut down on the dust.

Tried to keep dust out

"We went straight home from church and spent the rest of the day putting tape and towels around all the windows and doors in the house to try to keep the dust out. It didn't do any good. At every window sill and door jamb piles of sand filtered in through tape, towels, and all. While the old days sure were a lot of fun, I don't miss those sandstorms at all!"

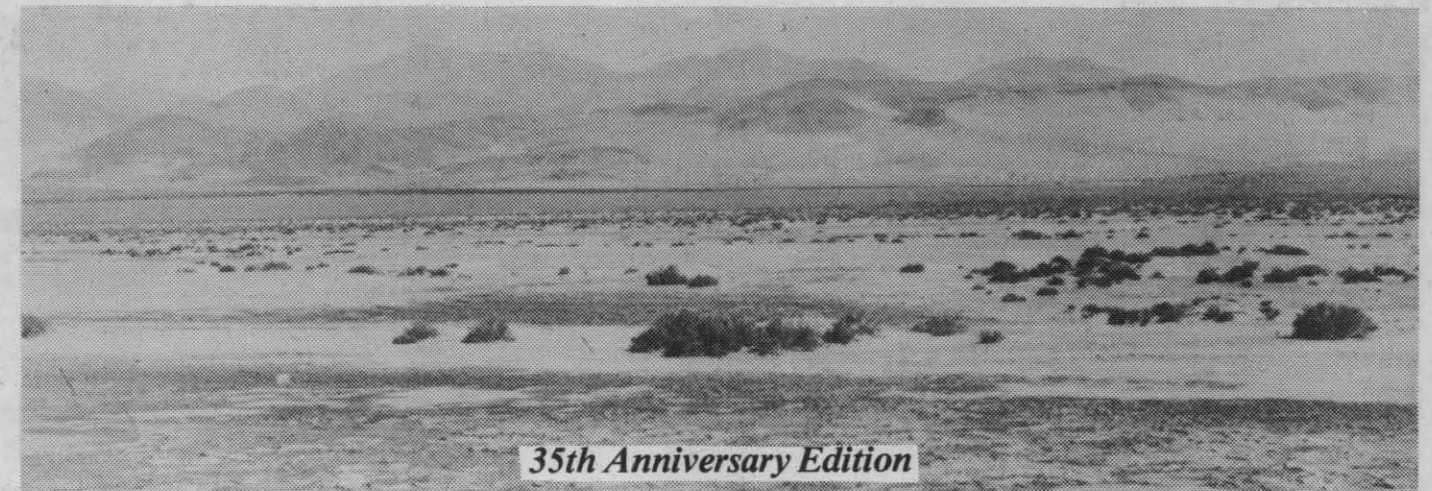
In spite of the sandstorms and primitive conditions that Joe found when he got here, he says that he has always been very happy with his job.

"The first place I worked was in the old machine shop, which was located in the hut back of the Training Center now used as the Navy Exchange warehouse. That didn't look much like the machine shop built in Michelson Lab later," Joe adds. He's now a foreman inspector with the Supply Department where the same can-do spirit that served so well in the early days is still inspiring his fellow-workers.

"My wife and I have really looked on China Lake as home," Joe says. "After all, six of our eight children were born here, and all are products of the local schools. We'll be here at least until our youngest, Lisa, who is now in the 8th grade, graduates from Burroughs. After that we may move closer to where most of the kids now live in San Diego."

"Our years here have been good ones," Joe feels. "We've seen the Center grow from almost nothing to the Navy's finest. Being able to be a part of that growth has been great."

THE WAY IT WAS — A short month after this picture was taken in October 1944, construction crews began clearing land for the first buildings on the Naval Ordnance Test Station, now the Naval Weapons Center. Reconnaissance parties of Navy and California Institute of Technology personnel had been delighted to find a vast section of the desert nearly uninhabited and available for use for research, development and testing of weapons. Not only was the vast acreage nearly uninhabited, but power lines were in, water was available, and both a highway and an airfield (Harvey Field at Inyokern) were already built.



35th Anniversary Edition

From
The Log

April 17, 1944

1615 — Captain's mast held. Offense — AWOL 3 hours 16 April 1944. Punishment: Five days solitary confinement on bread and water.

July 22, 1944

1515 — No available 91 octane fuel reported by line. Reason found to be that an unidentified civilian departed for parts unknown with a key to the reserve supply. 100 octane available.



FIRST TECHNICAL DIRECTOR — Dr. Louis Ten Eyck Thompson, "Dr. Tommy," used the unique expertise he had developed as the Navy's first civilian senior scientist (at the Naval Proving Ground at Dahlgren, Va.) to help establish the military/civilian scientific team concept that has proven so effective. He came to NOTS in 1945 at the urging of its first Commanding Officer, Capt. Sherman E. Burroughs, and was appointed as the first Technical Director before the end of the year.

From
The Log

May 3, 1945

1545 — Wind from south rising to medium gusts and velocity of 20 knots.

1610 — All local flights returned to field. Commenced raining.

1613 — O-in-C passed through Main Gate. Rain ceased.

May 7, 1945

0640 — Lt. Cmdr. Vossler announced that VE-Day in Europe had been confirmed.

June 25, 1945

1336 — Capt. Burroughs, Cdr. Hayward, Adm. Mitscher, Capt. Nicholson, departed with JRB and GB for fishing trip to Bishop.

Aug. 10, 1945

0620 — The war appears to be over.

Aug. 14, 1945

Approx. 1600 — WAR OVER — "V J"



ESSENTIALS — No matter where men work, they do need to eat. Dining facilities at Harvey Field, Inyokern, were primitive in early 1944, but a few amenities did exist. There may not have been damask tablecloths, and the lights were not from candles flickering over a formal table setting, but the food was no less welcome to men who were working long hours under primitive conditions to help develop the tools with which a war could be won.

NOTS Pioneers reminisce about early days

One consistent theme runs through all the reminiscences of the early timers at NOTS — that of the blowing sand.

As desert vegetation was bulldozed away to clear land for buildings and roads and runways, the winds of the Sierra wave would waft the bare surface skyward, and, as one early timer noted "all the wind and the dust in the world descended on NOTS." "Termination weather" it was called by those who stayed while others fled.

Even when the sand had drifted so badly against one building that a Public Works truck had to be summoned to clear the main door so it could be opened (and the truck itself got stuck in the sand), these early timers chuckled, dug away the sand drifts, and settled in to do their job of running a major research and development and test establishment while it was still under construction.

Rudimentary Main Gate

Sand piling against the first main gate was no problem. That first gate consisted of a 2x4 lying across a couple of carpenter's sawhorses.

Sawhorse and plank construction also formed the first movie theater seats at NOTS. The earliest movies were shown out of doors, with those watching sitting on splintery planks instead of plush theater seats.

And the earliest houses built, although welcomed by all, also created some problems. All the houses looked alike, streets were not really established, and adults as well as children often had trouble trying to distinguish their own residence from others.

Any Port in a Storm

Since many residents didn't feel it necessary to lock doors, strange children and adults were apt to wander in, thinking that they had reached their own homes. This happened especially when the wind and sand obscured such few landmarks as might have existed.

"We felt like we were pioneering," says

Ann McDuff, a management analyst in the Office of Finance and Management.

"Trona was the civilized place we went to go shopping or to go swimming when we had some time off."

Ann first came to China Lake in July 1944 as a Civil Service employee. She'd selected NOTS as the place to work rather than Panama or the other locations offered her because it was only 400 miles from her home in Alameda.

She admits to having had second thoughts about her selection when she was assigned her first working and living space in the

same quonset hut, but gamely stayed on until World War II was over.

In 1945 she left China Lake to go back home and to go to school, but found that she missed the desert and her friends here, and by February 1946 she returned. She's been employed here ever since.

"You have to go away once to really appreciate what a remarkable place this is," Ann says.

Theresa (Rose) Gonzales, head of the Records Management Branch in the Office of Finance and Management, agrees that

(Continued on Back Page)

Notations from personal log of Station's first
Commander outline beginnings of what is now NWC

On Nov. 8, 1943, then Secretary of the Navy Frank Knox signed the order establishing the Naval Ordnance Test Station (now the Naval Weapons Center).

The urgency of the need for the new Station and its planned operations can be noted from these excerpts from the personal log of Rear Admiral Sherman E. Burroughs, USN (Ret.) who was a captain when he became the first Commanding Officer of NOTS.

"During the period 9 to 16 November 1943 conferences were held at the California Institute (of Technology) among representatives of the Navy and the California Institute. The results of these meetings were compiled in a report entitled 'Proposed Layout of Facilities for Naval Ordnance Test Station, Inyokern, California, dated 12 November 1943.'"

"Negotiations were begun early in December 1943 for the acquisition of a large portion of the territory known as the Indian Wells Valley situated in the Counties of Kern, Inyo and San Bernardino and including the Inyokern airport. This area consisted largely of undeveloped Public Domain, used principally for cattle grazing and marginal mining operations."

"In order that the Station might become immediately effective in the war effort, it was decided to proceed with the immediate construction of certain temporary facilities. These included temporary housing, air and ground range installations, roads, shops and warehouses."

"Thus, primary air training and aircraft test firing were begun early in January 1944, and ground firing, early in February."

"... It was deemed advisable to construct

(Continued on Back Page)



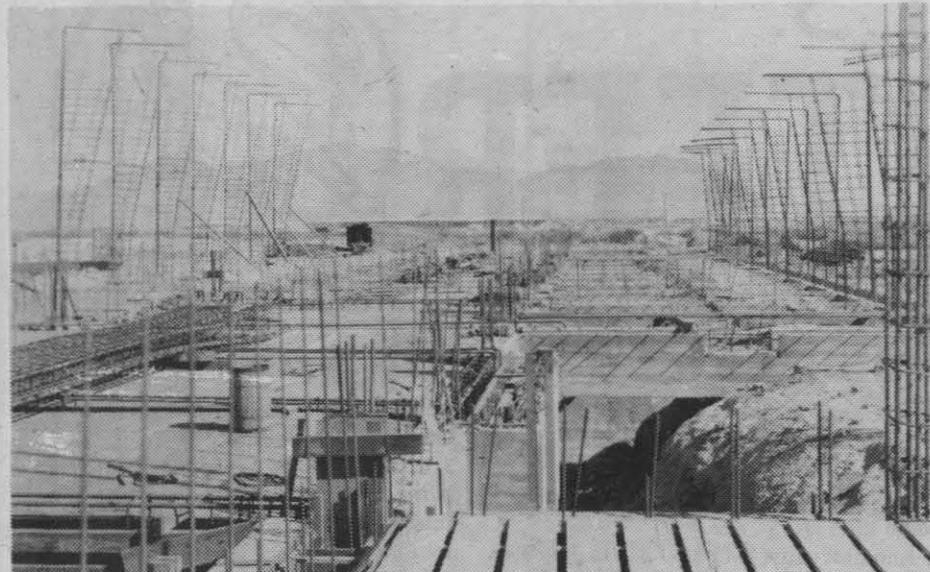
Capt. Sherman E. Burroughs

ROCKETEER



SHAPING UP — The construction of Michelson Laboratory proceeded following the end of World War II, and by September 1946 the wings were nearly complete although the main structure still resembled a giant two-story parking lot more than a

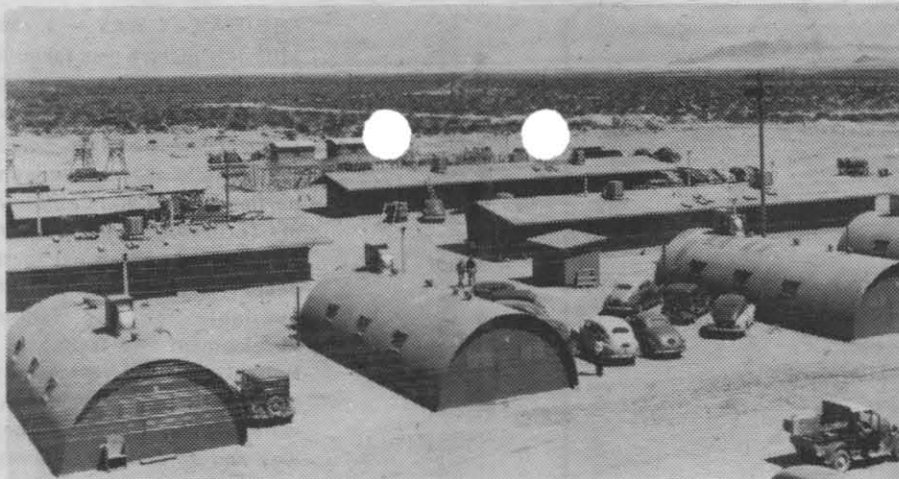
laboratory. Many NWC personnel who lived at China Lake as children in the mid-1940s remember using the enormous concrete slab floors of the laboratory building as a roller skating area during its early construction period.



FRAMEWORK — By the middle of February 1945 the first framework of Michelson Laboratory thrust up into desert skies. Cdr. J. A. Duncan, the Laboratory Officer, headed a committee that studied what were considered to be the best scientific laboratory buildings around the nation and used their findings in the design of what was to become the main laboratory building at NOTS. Recommendations included building an earthquake-proof structure whose 762-ft. long main section would be two stories in height, with 8 one-story wings and a 3-story machine shop.



FAITHFUL SERVANT — Built originally as the Station movie theater, this building was converted into the Station Chapel in 1948. It served as the Chapel until Nov. 3, 1957, when the present All Faith Chapel was dedicated. It then became the Jolly Roger, the Enlisted Men's Club, and filled that role for 11 years before finally being demolished in mid-1975 when construction began on the present Enlisted Mess building at the corner of Hussey Road and Blandy Avenue.



FIRST THINGS FIRST — Less than five months after the order establishing the new Station was signed, these headquarters huts had been built for the staff which not only supervised the construction of NOTS, but also was already in charge of a research, development, testing, and training program. The first Commander's hut served him as both office and living quarters — a distinct advantage when the wind swooped in from the mountains over newly cleared lands and the dust swirled.



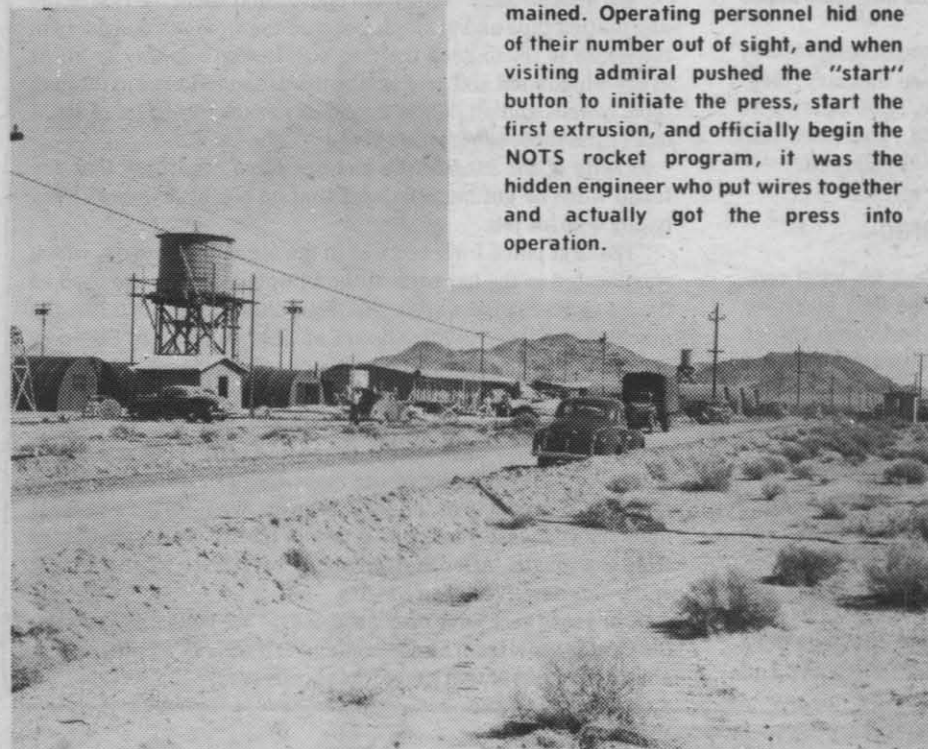
DEDICATION — Michelson Laboratory was dedicated on May 8, 1943. Attending the ceremony were Dr. Charles C. Lauritsen, for whom the Lauritsen Laboratory was named; Dr. L. T. E. Thompson, first Technical Director of the Station, Rear Admiral Sherman E. Burroughs, who had been the first Commander of the Station; and numerous high-ranking military and civilian personnel. Specially honored guests were three of Dr. Albert Michelson's daughters. The name, Michelson Laboratory, was chosen as particularly appropriate for a structure encompassing Navy research and development laboratories because Dr. Michelson was a graduate of the Naval Academy, and was actually teaching at the Academy when he first became interested in the work on measuring the speed of light for which he attained world renown. Dr. Michelson was awarded the Nobel Prize in physics in 1907 "for his precision optical instruments and the spectroscopic and metrological investigations carried out with their aid."



ZOOM! — Initial tests of Tiny Tim, the 11.75-in. rocket, were conducted at NOTS in 1944. The rocket was designed to give an aircraft the punch of a 12-in. gun, but the end of World War II came before Tiny Tim had a full combat test. The primitive test conditions pictured, with the rocket launched from a parked

aircraft, indicated the urgency of the development project. The need to test flight rockets developed by the California Institute of Technology provided the initial impetus to seek additional land in the Mojave Desert for a Naval Station when the Goldstone facility proved inadequate.

Photos from the Archives



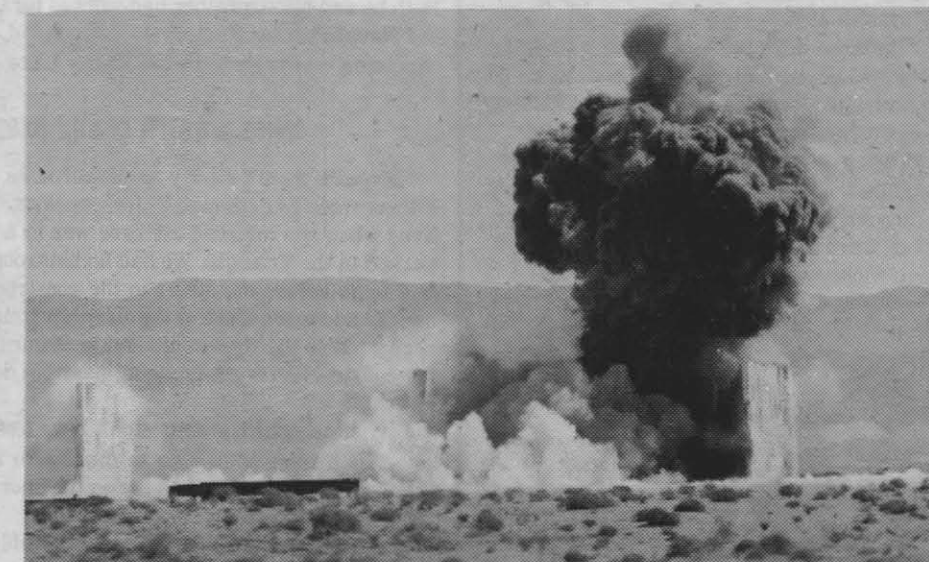
DIFFERENT VIEW — Halsey Avenue, looking east from what is now the Main Gate of NWC, looked much different in early 1944. The road had been graded, power lines strung and water tanks erected, but none of what is seen today on Halsey Avenue existed yet. Considering how little traffic flowed on the base at NOTS, there was no need for a traffic circle then.



EASY DOES IT — The 12-in extrusion press was carefully eased into position in its Pilot Plant location in late 1944. Round-the-clock work for weeks ensured that the press would be functional when the official party from CalTech came formally to start its operation. Unfortunately, some "glitches" remained. Operating personnel hid one of their number out of sight, and when visiting admiral pushed the "start" button to initiate the press, start the first extrusion, and officially begin the NOTS rocket program, it was the hidden engineer who put wires together and actually got the press into operation.



EARLY BUILDING — Looking like units on a Monopoly playing board, the Officers' Club (now the Commissioned Officers' Mess Open), the Bachelor Officers' Quarters, and the first units of housing on "The Hill" were among the earliest units of non-office and laboratory space completed at NOTS in 1944. The "Club" then served as a place where three meals a day were served to those who were living in the primitive quarters available at the time. The houses then under construction sat in the midst of a vast sandy area which became airborne in the first whisper of a breeze.



BOOM — The testing of weapons and weapon components, of rockets, explosives, propellants, warheads, fuzes, was just as active at NOTS 35 years ago as the testing of missiles and their components is today. Such stalwarts of the nation's arsenal as the 2.75-in. folding fin aircraft rocket (of which more than 16 million were manufactured for use by the United States and its NATO allies), Zuni, RAM, Shrike, Walleye, and the whole Sidewinder family of weapons all were born at NOTS and NWC, and they are merely the forerunners of the future for the work of the Center.



FLOATING AWAY — Families living in the Hawthorne housing units in 1948 thought they were living in the desert, not in an inland sea. When the rains came — and they still occasionally come in the same quantity although drainage now is much better — Navy men once more took to the boats. These Hawthorne units now

have been bulldozed away as the need for housing on the Center has diminished, but Mirror Lake, the inland "sea" to which this water drained, still exists, and the fairy shrimp which have existed in its alternate cycles of wetness and baked mud still flourish when the rains come.