

# Special Weapon Delivery Perfected at C-Range

## Variety of Testing Done On Four Target Areas

In 1956, more than 600 pilots from 35 Navy, Marine and Air Force squadrons dropped 18,000 bombs on four cement walls that look like the remains of the Alamo.

The cement-walled target is located on C-Special Test Range, better known as Charlie Range to Station residents. The walls have been standing there, one behind the other, for almost as long as the Station, and were originally built to simulate German bunkers. Varying in thickness from one to nine feet, these walls have been the target of everything the Station has developed.

**McClung's Men Aid**  
Through these combined efforts, and with the cooperation of adjoining ranges, the finest instrumentation available at NOTS has been focused at C-Range to provide data coverage. Much of the equipment was developed by AOD's Development Division (Instrumentation) under the supervision of Rod McClung.

Charlie Range was originally designed for air-to-ground rocketry, but because of the highly diversified requirements in the NOTS test program, involving the evaluation of guided missiles, torpedoes, rockets, bombs, flares, and other ordnance, this range has become an extremely versatile and functional area equipped with instrumentation and facilities to provide test data in many different areas of ordnance development.

The C-Range control tower, located in the geometric center of the range, is used as the "nerve center" to control and coordinate test activities on four separate target areas.

These target areas, designated as C-1, C-2, C-3, and C-4, are designed for tests involving:

- Evaluation of bomb directors and fire control systems.
- Evaluation of rockets and rocket fuses with inert and explosive ammunition.
- Evaluation of guided missiles in air-to-ground, static, and air-to-air firing tests.
- Underground trajectory studies of air-fired rockets.
- Evaluation of torpedoes, marine flares, and sono-buoys.
- Operational training of fleet squadrons in high altitude bombing, toss bombing, dive bombing and loft bombing.
- Development of special weapon delivery technique.
- Special tests that require unique targets, facilities, and instrumentation.

To accomplish the task of field evaluation of this diversity of aviation ordnance, the facilities and instrumentation must be designed to be flexible, and at times mobile, so that they can be moved to various target locations.

Frequent tests require such an array of instrumentation that the assistance of adjoining ranges is required to fulfill the test requirements. In recent tests, Askania cameras, radar control, and tracking mounts have been provided through the assistance and cooperation of the ground ranges in the Test Department. B-1 range has frequently supplied camera coverage and other facilities to aid in the test program.

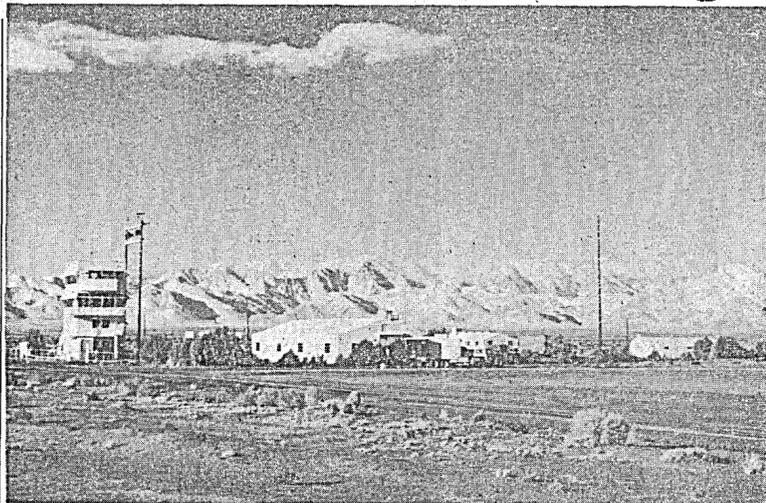
Upon enumeration of the many types of testing carried out by Charlie Range, one might guess that the operation of the Range would require a veritable legion of men. But in fact Charlie Range is run by a small group of 11 extremely versatile and capable men who are able to handle just about anything concerned with aviation ordnance.

Range impact spotters are Homer Davis and Harold Hornak; Doug Reid operates the profile tracker; Bill McKinney the X-Y plotter; and Neil Adams the impact plotter and Sanborn recorder. In addition, Bob McClary heads the operations unit, Tommy Thompson the electronics unit, and Graham Westmoreland the photographic unit. George Martin is a range electrician. Paul Alexander is the test coordinator, and Duane Mack supervises operations as the Range Engineer.

Charlie Range was the scene of the first field tests conducted at the Naval Ordnance Test Station in November of 1943. The Range has been buzzing with activity nearly every day since.

Some of the people who have kept things buzzing during the last few years are the aviators of Air Development Five, now based at NOTS. VX-5 began working with C-Range in 1952 when the squadron was at Moffett Field. In 1955 they deployed at NOTS with a mission to develop special weapon delivery techniques.

At Charlie Range, the pilots of VX-5 and other visiting squadrons learn to destroy any target in the world through the techniques of over-the-shoulder bombing, high altitude bombing, dive bombing, toss bombing, glide bombing, loft bombing, skip bombing, radar bombing and low level bombing. VX-5 in particular, as one of the pioneers in the bombing trade, is able to provide operating squadrons with the necessary know-how in the latest bombing techniques, most



**CHARLIE TOWER**—Against a picturesque snow-capped Sierra background, the Charlie Range tower and offices sit in the geometric center of the C-Special Test Range—probably the most versatile and best instrumented target range in the Navy. C-Range was the scene of NOTS' first field tests in 1943.

of which were developed right here at Charlie Range.

**Effective System**  
The flight training system used at C-Range by VX-5 and visiting squadrons provides a criterion of bombing efficiency, by utilizing a flight profile tracking instrument which records on detailed graph paper the flight pattern of the pilot's bombing run. The errors of this flight, as compared to the prescribed optimum pattern, are radioed to the pilot immediately. He can

thus correct his flying techniques on the next pass over the target, rather than have to land for a conference and analysis as was formerly the practice.

The profile flight tracker is geared to a ball-point pen that traces the flight path on the special graph paper. A plastic template of the prescribed flight pattern is placed over the actual graph, revealing any differentiation immediately. Another instrument, the skyscreen, provides an accurate means of calibrating the plane's speed by a series of electronic devices placed at given distances along the flight range.

The entire training system is in various stages of construction and operation at seven other Navy, Marine, and Air Force locations—testifying to its effectiveness.

**Fleet Strikes**  
A little known fact is that fleet strikes come from carriers all up and down the coast with Charlie Range designated as an enemy target. When a strike is made, it enables the Navy to make a complete evaluation of the pilot's ability to launch, chart his course, make an effective approach (through imaginative anti-aircraft, radar, etc.), locate and destroy the target, and return to his carrier base.

Frequently, the men in the tower in the center of Charlie Range are running a couple of tests at once with the tower as the center of operation. While loft bombing is going on at one range, static firing of a SIDEWINDER might be going on at another. But the team of technicians at Charlie Range is easily able to cope with the variety of activity by virtue of a real teamwork built up over the years (the junior employee has been there 5 years).

Combining a versatile team of technicians with a very well-in-

strumented test area, Charlie Range plays a definite role in the Navy's development of weapons for defense. The Commanding Officer of Attack Squadron 153, out of Miramar, summed it up rather nicely when he recently sent back a picture of his squadron containing the words: "Personnel of Charlie Range; the most cooperative and best run target in the Navy."

Within recent months, Pearson has been invited to present papers before several professional organizations in Cleveland, Milwaukee, and Los Angeles. Also, he has presented papers at the ONR Decennial Year Symposium and at the

Thousands See NOTS Displays At Local Fairs

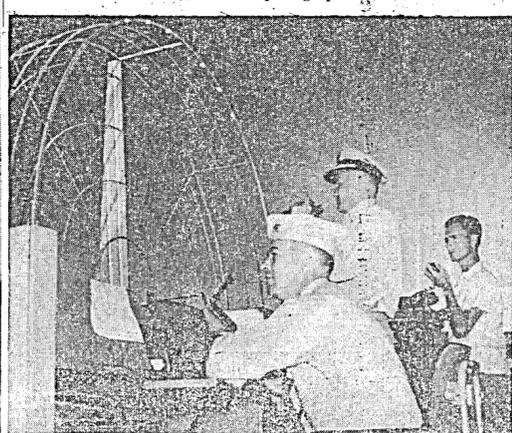
It's fair time in California and among the most important exhibitors will be the Naval Ordnance Test Station. During September and early October the Station will have displays at eight fairs and technical exhibits.

It is estimated that during this period about one-half million people will learn about the work of the Naval Ordnance Test Station through these displays. The main feature in many of these displays will be the Station's SIDEWINDER guided missile and the recently released ZUNI rocket.

NOTS exhibits have already been displayed at the Tri-County Fair at Bishop, the California State Fair at Sacramento and the Instrument Automation Conference and Exhibit at Cleveland, Ohio.

Remaining fairs at which the Station will have displays are: the Los Angeles County Fair at Pomona from Sept. 13 through Sept. 29; the Kern County Fair at Bakersfield from Sept. 23 through Sept. 29; the San Bernardino County Fair at Victorville from Oct. 2 through Oct. 6; and the Desert Empire Fair at

Combining a versatile team of technicians with a very well-in-

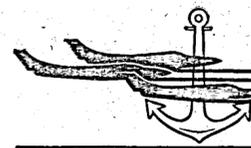


**RANGE HARP**—LCdr. R. S. Eaton of VX-5 helps control the dive angle and slant range of the firing aircraft during a squadron bombing run. Behind him LCdr. R. M. Hopfinger watches the operation with binoculars, and C-Range employee Paul Alexander conducts the test on the radio, coordinating the pilot with all ground stations.



**NERVE CENTER**—Here in the top deck of the Charlie Tower test activities on four separate target areas are coordinated. Rocketeer photographer Tom Long catches Range personnel as they plot a bombing run. Shown (l. to r.) are: Neil Adams, operating the San-

born recorder; Bill McKinney at the profile tracker; Bob McClary, putting the profile template on the plot; and VA-215 pilot Lt. (jg) Bertelsen, interpreting data for the pilot, one of hundreds that visit C-Range to learn bombing techniques.



# ROCKETEER

## John Pearson Attains Local And National Recognition

John Pearson, Head of Warhead Research Branch in Weapons Development Department, was recently honored for his numerous achievements while his branch was under the cognizance of Propellants and Explosives Department before a departmental reorganization.

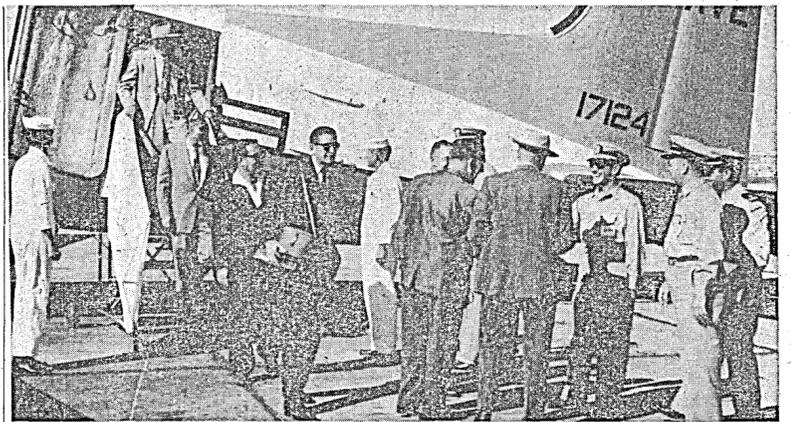
In recognition of both his great contribution to NOTS and his national prominence, Pearson was made a super grade GS-14 while remaining in his capacity as Head of the Warhead Research Branch. For each of the past two years, he has received an "Outstanding" rating, and on the basis of these citations, was recently presented with a \$300 Superior Accomplishment check by the Propellants and Explosives Department.

While connected with this department, Pearson became a nationally recognized authority on the behavior of metals under impulsive loads. He was designated "National Lecturer" by the American Society for Metals and has frequently been consulted by representatives of government, industrial, academic, and foreign laboratories.

Within recent months, Pearson has been invited to present papers before several professional organizations in Cleveland, Milwaukee, and Los Angeles. Also, he has presented papers at the ONR Decennial Year Symposium and at the

BRL Shaped Charge Symposium. In addition to his supervisory duties as Branch Head, Pearson has conducted a personal program of research on warheads with such success that both the Army and Navy have adopted some of his ideas. He is the co-author of a book titled "Behavior of Metals Under Impulsive Loads," and the author and co-author of numerous published reports mostly in the field of impulsive loading. Moreover, he holds and has pending several patents dealing with ordnance items.

Born in Yorkshire, England, Pearson became a U. S. citizen during the war while he was serving in the U. S. Army Engineers. He received his education in mechanical engineering at Northwestern University and considers Chicago his home. Before working at China Lake, his professional experience was in the field of heavy industrial equipment.



**NAVY LEAGUE VISITORS**—Members of the 11th Region Navy League are greeted on arrival at NAF China Lake, Calif., by Lt. David Traitel, 11ND representative. The group was here for a two-day tour of the Station.

## 11th Region Navy League Men Witness Firings; Tour Facilities

Twenty-four members of the Navy League from the 11th Region visited the Station Wednesday and Thursday to view NOTS facilities and witness test firings. It was the fifth meet of the 11ND Navy League to be held at NOTS.

The visitors arrived at NAF Wednesday morning and were welcomed by Captain W. W. Hollister, Station Commander, before witnessing TERRIER guided missile firings at G-Range. They also witnessed a sea ejection test at the SNORT track on Wednesday.

On Thursday, the visitors saw warhead tests at Area R and low-level bombing at C-Range. A commentary on the SIDEWINDER program here at NOTS was also given by Cdr. Wade H. Cone in Michelson Lab.

The Navy League has, through the years, earned the name, "The Civilian Arm of the Navy." Scarcely a day goes by that some unit of the League somewhere does not contribute in its own way to the support of the Navy.

Contrary to popular belief, the Navy League is not solely composed of retired naval officers, although the membership is well salted with these officers and enlisted men. Every civilian who is a good American citizen and every member of the armed forces not on active duty is welcomed into the ranks of the Navy League.

Those who participated in the two-day Station visit were: W. H. Campbell, Craig Iron Works; R. T. Casey, Witherspoon Co.; B. H. Cissel, Electronic Specialty Co.; J. J. Elliott, Garden Grove, Calif.; B. H. Farwell, private investment broker; W. L. France, A. O. Smith Corp.; Mike Harris, Phoenix, Ariz.; S. W. Horrocks, Thompson Co.; H. C. Kuhl, J. Walter Thurston Co.; and Sterling Leach, Baronon Corp.

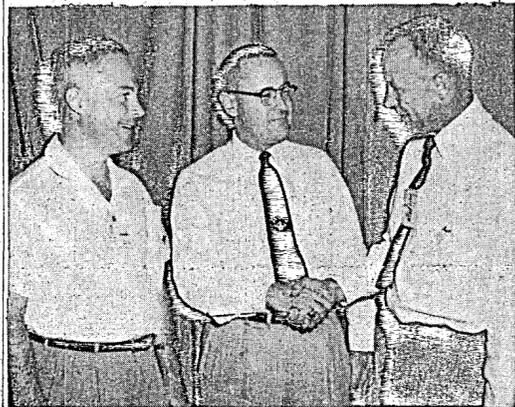
Also: W. M. McCloy, General Appraisal Co.; A. L. Moore, Phoenix, Ariz.; A. H. Prosser, Aero Products; A. D. Scott, Los Angeles; A. A. Standish, Barton Stebbins Co.; L. E. David Traitel, USN, 11ND representative; E. H. Von Ehrenberg, Narmco Inc.; Palmer Wheaton, Moody's Investment Service; Lewis Chanan, Phoenix, Ariz.; George F. Sherrill, Spencer R. Stewart, and James B. Taylor, Phoenix, Ariz.

The former president of the Eleventh Region Navy League, RADM. T. H. James, USNR (Ret) was also in attendance. He is now a delegate at large. Bob Smith, president of the local Navy League was also on hand to welcome the visitors.

Officers of the honorarium are: Diane Renne, president; Don Davis, vice-president; and Kristen Highberg, secretary-treasurer.

No freshman students were listed since the grading period was for last spring.

**Commissary Store Closes for Inventory**  
The Commissary Store will be closed for inventory beginning Tuesday noon, September 24, and will remain closed until 10 a.m. Thursday, September 26.



**SUPER GRADE EMPLOYEE**—John Pearson (center) is congratulated by his former department head, Dr. H. W. Hunter (right) for his outstanding contributions in the field of behavior of metals. His present department head, Dr. H. A. Wilcox (left) awaits his turn to extend his congratulations.

Ridgecrest from Oct. 10 through Oct. 13.

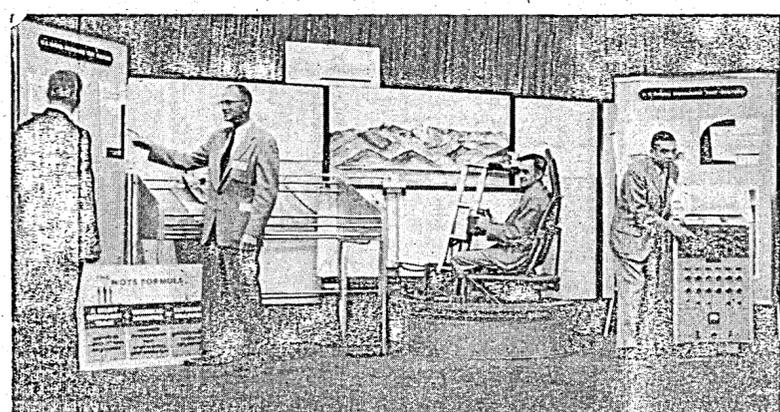
The setting up and manning of these displays will be handled by the Presentations Division of the Technical Information Department, with coordination by Ray A. Sinnott and A. B. Christman. Other persons manning NOTS displays during this period will be Earle Kirkbride, E. B. Hill, E. G. Cozzens, F. L. Carlisle, Ken Robinson and members of the Personnel Department.

Much of the art work for the exhibits has been prepared by the Graphic Arts Branch of TID under the direction of Fred Richards and Fred Grumm, with much of the actual design work done by Hal Lindberg and Lynn Nowels.

Special SIDEWINDER and ZUNI displays have been prepared for these exhibits. The SIDEWINDER display was designed by Gerard Pottebaum, and much of the work was done by W. Meacham, assisted by members of the Manufacturing Division of the Engineering Department.

The ZUNI display is the work of Sid Shaffer and Leonard La Rosa, also assisted by members of the Manufacturing Division of the Engineering Department.

In addition to the SIDEWINDER and ZUNI displays, the highlight of many of the exhibits will be a miniature SNORT track, which has been extensively modified by members of the Instrument Development Division of Test Department.



**CLEVELAND EXHIBIT**—Technical exhibits of work done at NOTS are displayed at the Instrument Automation Conference and Exhibit at Cleveland, Ohio. Station personnel attending the conference (l. to r.) facing camera are: Ernest G. Cozzens, Everett B. Hill, and Francis L. Carlisle.

**ROCKETEER**  
Published Every Friday at the  
**UNITED STATES NAVAL ORDNANCE TEST STATION**  
CAPTAIN F. L. ASHWORTH, UNITED STATES NAVY  
Commander

The Rocketeer, an authorized Navy publication is printed weekly by Hubbard Printing, Ridgecrest, Calif., with appropriated funds and in compliance with NAVEXOS P-35, Rev. November, 1945. The Rocketeer receives Armed Forces Press Service material which may not be reprinted without AFPS permission. All photographs are official U. S. Navy photos, unless otherwise specified. Deadlines: News stories, Tuesday, 4:30 p.m.; photographs, Tuesday, 11:30 a.m.

**BUDD GOIT** Editor  
**W. E. JACKMAN** Asst. Editor  
**PHILLYS WAIR** Staff Writer

Nova Semeyn, Annex Correspondent (Foothill, phone Ext. 35). Art by Illustration Group, Technical Information Department. Photography by Rocketeer Photo Staff—T. E. Long, PH2, Ken Ansholt, PH2. Photographers for the Pasadena columns are—Shav Monsten, A. E. Block, D. Sanchez and Joanne Smith.

Office Building 35, Top Deck—Telephones 71354, 72032, 71655

### AAUW Invites New Members

New members, prospective members, transfers from other branches, and renewals will be honored at the first fall meeting of the China Lake Branch of the American Association of University Women, according to Mrs. E. V. Ashburn, membership chairman of the local branch. The occasion will be a potluck dinner to be served on Tuesday, September 24, at 6:30 p.m. on the patio of Mrs. K. H. Booty's residence, 601 Essex.

Members of the membership committee who will serve as hostesses will include Mrs. Ashburn, Mrs. R. D. Emerson, Mrs. A. M. Schostag, Mrs. J. D. DeSanto, Mrs. E. K. Jeanne, Mrs. E. W. Anderson, and Mrs. T. Atchison.

All women who hold degrees from colleges and universities approved for AAUW membership are invited to join the association. Standards for AAUW recognition of institutions and degrees for membership eligibility includes: good standards, an adequate foundation of liberal education, recognition of women in faculty and administration, adequate provision for women students and maintenance of academic freedom. Through these requirements, AAUW uses its influence to promote high standards in education for women.

The local AAUW branch has a varied program of cultural, educational and social events, with one general meeting each month and numerous study group meetings. The group also raises money each year to provide scholarships and fellowships for women students.

Mrs. Ashburn stresses that membership is not invitational. Women interested in membership may call her on Ext. 77863 to obtain information on membership, eligibility, and local and national program objectives.

### Two Burroughs High Teachers Honored

Dual honors in the field of mathematics have been awarded to two Burroughs High School instructors who were recently chosen as winners of scholarships granted by the National Science Foundation.

Leland J. Richardson will be among 30 high school teachers chosen to attend the University of Chicago for a year's study in modern mathematics. He will leave October 7 for the institute pending approval of leave of absence by the Kern County Union High School and Junior College District.

Last spring, John Trent received a similar scholarship for the summer institute program in modern mathematics and statistics. He was one of two teachers in the state and one of 50 in the nation to be selected for the course.

### Chest X-Rays Slated For All Stragglers

All stragglers, male and female, who did not report for chest x-rays in the September 3-20 schedule should report to the Station Hospital for X-rays in accordance with the following schedule:

- A-C ..... Monday, Sept. 23
- D-H ..... Tuesday, Sept. 24
- I-M ..... Wednesday, Sept. 25
- N-S ..... Thursday, Sept. 26
- T-Z ..... Friday, Sept. 27

### Overweight Club Meets

The NOTS Overweight Club will meet Monday evening at 8 p.m. in Room A of the Community Center.

### Honors Program Includes Juniors

The honors program, established last year at Burroughs High School for freshmen and sophomore students, has been extended into the junior class this fall.

About 75 students in the three grades have been selected through recommendation of their teachers and results of achievement test scores to participate in the advanced course of study.

When the program was being planned by faculty members two years ago, there was some doubt as to the workability of the honors grouping. But Wesley Anderson, faculty chairman of the honors committee, administered an English grammar test to the sophomore honors group last spring, and the results were such that there could be no question as to the student's readiness for advanced study. The class' average ranked at the 55th percentile of college liberal arts seniors.

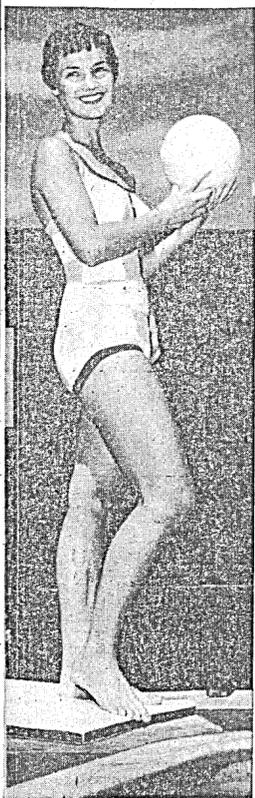
The advanced mathematics classes are open to students who show special ability in the field even when they are not eligible for the honors program. All honor students must maintain adequate achievement to stay in the program.

Instructing the junior honors group are Alfred Schostag, social studies; Darwin Howe, English, and John Trent, advanced algebra.

On the sophomore level Mrs. Wayne Harsh is teaching English and social studies to the honors group, Kenneth Westcott is teaching plane geometry and James Nau has the life science class.

Freshman honor classes are being taught by Miss Anne Woolfenden and Mrs. Albert Zernickow. Miss Woolfenden teaches English and social studies and Mrs. Zernickow teaches beginning algebra.

### Seeks Queen Title

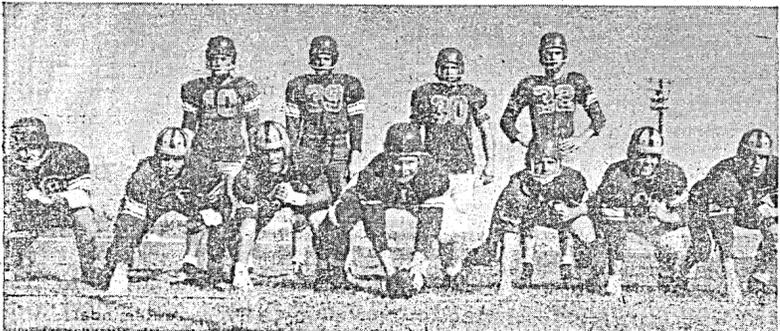


**PERT Dolores Burke**, of Ridgecrest, is contestant No. 5 in the Indian Wells Valley United Fund queen competition. Dolores is a junior at Burroughs High and a cheerleader during football season.

### Opening of Track Delayed by Midgets

The Desert Empire Quarter Midget Club has been forced to postpone their track grand opening from Sept. 21 to Oct. 5. Several Southern clubs who have been invited to the grand opening cannot meet the original date because of other scheduled races.

However, Earl Hart, Club president, states that the local midgets will race against each other again on Sept. 21 and to escape the heat, the time trials will start at 6:30 p.m. and be followed by heat races. Approximately 400 hardy racing enthusiasts braved 106 degree heat on Sunday afternoon, Sept. 8, to witness the Desert Empire Quarter Midgets initiate their new race track.



**BURROGS' FIRST STRING**—Burroughs football team opens its season tonight with an away game against North Bakersfield High. Starting for the Burros will be (l. to r.) Bob Roseth, rg; Bill Oakes, rt; Bill Davis, rg; Pete Latham, c; Doug Chantler, lg; Ron Croxton, rb; Steve Clark, qb; Gary Koehler, fb; and Gary Maxwell, lb.

## The Distaff Side



**NEW PREXY**—Phillys Wair, president of the local Kern Desert Business and Professional Women's Club, is shown with the National Business Women's Week poster on display throughout the area during the coming week. In addition to writing for the ROCKETEER, Phillys is the originator of the Distaff Side, a column designed to give recognition to working women at NOTS.

### NATIONAL BUSINESS WOMEN'S WEEK

Sept. 22-28

The Distaff Side joins the rest of the nation in its "Salute to Women Who Work" during National Business Women's Week, designated by President Eisenhower for next week, September 22-28. Of the 22,000,000 working women honored throughout the land, 2,000 of them are employed here at NOTS.

Success—for a woman—is dependent on more than education, training and personality. It has much to do with the way she walks, talks, the wall paper she selects, and the kind of moppets she rears. This doesn't seem fair, in a way, but that's how it is!

**President's Message**  
In his message to the president of the National Federation of Business and Professional Women's Clubs, President Eisenhower said: "Salute to Women Who Work" is a theme which commands the respect and appreciation of the Nation. In the last generation, the number of working women has more than doubled and they make an essential contribution to the business and professional life of our whole economy...

### Housing Now Takes Out-of-Town Checks

Contrary to former policy, the Housing Office has been authorized to accept checks drawn on out-of-town banks for rental payments. This will be in addition to checks drawn on the local bank, money orders and travelers checks.

Acceptance of out-of-town checks will be made under the following conditions:

- Checks must be made out for the exact amount of the rent and made payable to the Treasurer of the United States.
- Bad checks, which are the responsibility of writer, may cause the check privilege to be withdrawn.
- Refunds to terminating employees who have made their last payment by check, will be delayed a sufficient amount of time to allow the check to clear. Maximum time required for clearing checks is approximately two weeks.

### Job Opportunities

**Clerk Stenographer GS-1.** Secretary to Head of Shops Engineer Office. Interested persons must have two years of general office clerical experience, at least six months of which have included the taking and transcribing of dictation. Contact Ann Carter, Ext. 72218.

**TEMPERATURES**  
Sept. 12 ..... 64  
Sept. 13 ..... 57  
Sept. 14 ..... 57  
Sept. 15 ..... 58  
Sept. 16 ..... 55  
Sept. 17 ..... 61  
Sept. 18 ..... 48

### Judy Wilson Reports On European Tour

By R. L. Hayes  
"The trip was wonderful! Germany was everything that I had dreamed it would be." These were the words of Judy Wilson, daughter of Mr. and Mrs. H. G. Wilson, who returned September 10 from Germany after participating in the summer exchange-student program sponsored by the American Field Service.

Judy left China Lake July 21 and was fortunate inasmuch as she was accompanied on her trip to Europe by Ghita Thome, the Finnish foreign-exchange student who studied at Burroughs High School last year and who stayed at the home of the Wilsons. After flying to New York, Judy and Ghita boarded the Arosa Sky, the ship that had been chartered by the American Field Service to carry the 750 foreign students who had been studying in American schools back to their native lands throughout the free world.

The trip was of seven days length and was very interesting to Judy because she was the only American student on board. Besides meeting friends from many countries, she was able to sit in on the forums and informal discussions that were carried on throughout the trip.

When they reached Rotterdam, Judy and Ghita parted company, and Judy then traveled by bus and train to Bremerhaven, a German port city on the Baltic Sea, where she met the Otto Wieses family, which was to be Judy's foster family during her stay.

The Otto Wieses, Judy tells, was probably much the same as would be most German families. Mr. Wieses, as head of the household, would probably be considered strict by our standards, but this is accepted in Germany. The children who are not 18 are not allowed to date, and they do not run around in groups but prefer to be accompanied by one, or at the most two other friends when they go out. Also, the family seldom goes out at night, but if they do the parents take the children with them.

The city of Bremerhaven was also a new experience for Judy. Most striking were the cobblestone streets, the heavy bicycle traffic, the brick and stone houses built close to the street and the parks that replaced individual yards. When asked what she missed most while there, Judy answered, "It would have been nice to speak German, but probably most of all I missed going to church." Judy went on to explain that although there are many churches, most German families only go occasionally.

Summer exchange-student trips are not tourist trips. Throughout her stay in Bremerhaven, Judy attended high school, which holds classes throughout the year except for about five weeks during the summer. She attended school with her 17-year-old foster sister Otilie. It was interesting to Judy that in the German school system only the students who do well in the elementary grades are sent to high school, while the others are sent to trade schools of their choice. But more interesting to Judy were the students. In Germany, students always shake hands when they meet and part company, which to Judy seemed a friendly gesture. Students are seldom seen in groups at school. Because they do not have intra-school sports or other extracurricular activities they seem to lack the competitive spirit found in the United States.

When Judy's three weeks were up, she along with 750 other returning American summer exchange students boarded the Arosa Kuhn. The return trip was filled with discussions on student government, with students from throughout the U.S. participating. After a 13-day trip they docked in Quebec, Canada.

From Quebec, Judy traveled by bus to the Montreal airport. "At the airport," Judy said, "I realized just how proud I was to be an American when the announcer said, 'Flight 58, New York City, U.S. AIRLINES'."

### Religious Services Set For Jewish Holy Days

Rosh Hashonah (New Year) begins at sundown, Wednesday, September 25, and ends at sundown, Friday, September 27. Yom Kippur (Day of Atonement) starts at sundown, Friday, October 4, and ends at sundown, Saturday, October 5. All Jewish personnel, and their dependents are invited to attend the High Holy Days religious services to be held at NOTS Hebrew Temple on Halsey Avenue. Student Rabbi Jerrold Goldstein of Los Angeles will be the spiritual leader of the services for the High Holy Days this year.

**SHOWBOAT**

Matinee  
Sat. and Sun - 1 p.m.  
Evening  
6 and 8 p.m. daily

**TODAY** SEPT. 20  
"THE D.I." (105 Min.)  
Jack Webb  
SHORT: "Football Now and Then" (7 Min.)

**SAT.** SEPT. 21  
"SAILOR BEWARE" (103 Min.)  
Martin and Lewis  
Corrine Calvet  
SHORT: "Greedy for Twenty" (7 Min.)

**MATINEE**  
"LONG JOHN SILVER" (105 Min.)  
Robert Newton  
SHORTS: "Caballero Droopy" (7 Min.)  
"Lost Planet" No. 7 (16 Min.)

**SUN.-MON.** SEPT. 22-23  
"3:10 TO YUMA" (92 Min.)  
Glenn Ford, Van Heflin  
SHORTS: "Magoo's Glorious 4th" (7 Min.)  
"Dirt Track Racing" (8 Min.)

**TUES.-WED.** SEPT. 24-25  
"SHORT CUT TO HELL" (87 Min.)  
Wm. Bishop, Georgann Johnson  
SHORTS: "Cat and MerMoose" (7 Min.)  
"Brokenhearted Ski" (15 Min.)

**THURS.-FRI.** SEPT. 26-27  
"MAN WITH A THOUSAND FACES" (121 Min.)  
James Cagney, Dorothy Malone

**NOTS ON THE AIR**  
**KRKS (1240)**  
NOTS NEWS ..... 12 noon and 5 p.m.  
Monday through Friday  
MUSICAL MEMORIES ..... Tuesday, 8 p.m.  
NOTS INTERVIEW ..... Tuesday, 8:30 p.m.  
Dr. Gilbert J. Plain, Associate Head of Research Dept.

**KRCK (1360)**  
NOTS NEWS ..... 12:15 daily  
NOTS INTERVIEW ..... Sunday, 12:30 p.m.  
Kelvin H. Booty, Head of Engineering Dept.

### COMING EVENTS

**Free Auto Safety Check**  
A free motor vehicle safety check, sponsored by the Loyal Order of Moose, China Lake Lodge 258, will be conducted on the Schoeffel Field parking lot tomorrow, September 21, from 8 a.m. to 5 p.m.

Another similar check will be conducted on the following Saturday, September 28, from 8 a.m. to 5 p.m.

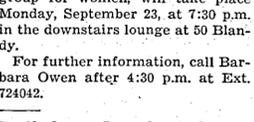
### China Lake Bowmen

The China Lake Bowmen will hold their monthly archery meet Sunday at 8 a.m. The meet will consist of a 14-target hunter's round and a 14-target field round. Refreshments will be available at the clubhouse and all interested are urged to attend. The clubhouse and range are located at the site of the old Satellite Lake golf course on the Pilot Plant road. The Club will also hold a business meeting on Monday at 8 a.m.

### Sweet Adelines Meet

The next meeting of the Sweet Adelines, barbershop harmony group for women, will take place Monday, September 23, at 7:30 p.m. in the downstairs lounge at 50 Blandy.

### Cooperating federal, city, county, and state forces working 24 hours a day throughout the week brought it under control.



### NOTS Golf Standings

Team	Percentage
Divot Diggers	71.2
Duffers	65.0
Peepickers	59.6
Bogies	50.0
Sobusters	45.2
Birdies	42.0
Handicaps	35.4
Haley's Comets	33.4
Squares	34.8

## News from Pasadena

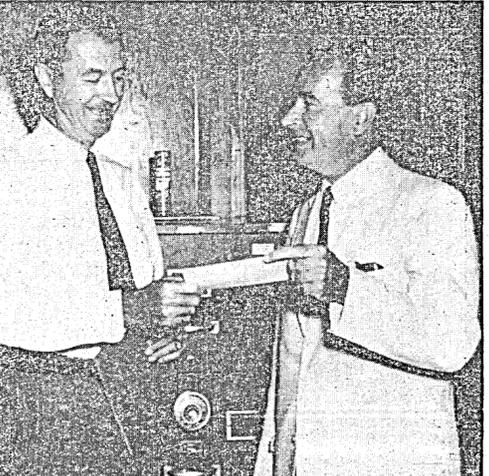


**ANNEX HOSTS VISITORS**—On a one-day tour of NOTS Pasadena last week were the Commander and Staff of Cruiser-Division One of the Cruiser-Destroyer Force, U.S. Pacific Fleet. Pictured above (l. to r.) are: W. E. Hicks, UOD Consultant (who helped host the group); RADM. R. S. Benson, Commander, Cruiser-Division One; Cdr. J. J. O'Brien, Officer in Charge, Pasadena Annex; and Capt. H. S. Monroe, Chief of Staff, Cruiser-Division One. Also with the visiting party were Lt. Wm. E. O'Leary and Lt. Wm. F. Diehl.

### Supply Personnel, Simpson, Lauded For Support Given

In a letter made public this week, personnel of the Supply Division, and Elliott Simpson in particular, were commended for logistic services rendered the field branch of Underwater Ordnance Department during development and evaluation of the RAT weapon system at San Clemente Island, Long Beach, and Key West, Florida.

The letter, signed by Frank White, head of the field branch, states in part: "Mr. Simpson's knowledge, skill and cooperation enabled this branch to meet evaluation firing dates which were established more than a year in advance. He maintained a high level of effort over a long period of time, resulting in quality work that is a credit to the Naval Ordnance Test Station."



**RECEIVES AWARD**—Wilford S. Hawkins (left), production specialist, accepts a superior accomplishment award from K. H. Booty, Head of Engineering Department. A new method suggested by Hawkins has netted him two awards amounting to nearly eight hundred dollars.

### Program Told For Noon-Time Show Next Wednesday

Art Block of the Photo Lab will preside over the noon-time entertainment program on Wednesday, Sept. 25, 12-12:30 p.m., in the Building 7 conference room. Art will show a variety of colored slides and will give hints on technique of taking color pictures. This program should be of particular interest to amateur photographers.

ESO announces that anyone having suggestions for future programs should contact Fred Eaton, chairman of the noon-time programs.

### San Gabriel Canyon Fire

Cooperating federal, city, county, and state forces working 24 hours a day throughout the week brought it under control. About 2600 acres of watershed was destroyed in the week-long fire in the San Gabriel Canyon near Morris Dam.

### Idea For New Production Method Nets Two Awards For NOTS Man

Wilford S. Hawkins, production specialist in the industrial planning branch of Engineering Department, has received a second Superior Accomplishment award netting him almost eight hundred dollars for his suggestion of a new method of producing aluminum rocket motor tubes. The second award, granted by the Navy Incentive Awards Board, amounted to \$480 and was

In the ceremony here last week, K. H. Booty, Head of Engineering Department, presented the check and a letter signed by Assistant Secretary of the Navy J. Sinclair Armstrong, which reads in part: "On behalf of the Navy, I wish to commend you for the resourcefulness and initiative which you have displayed in this achievement. The Navy appreciates your valuable contribution which constitutes a significant improvement in the Navy's operations."

### NOTS Overseas Club

Members of the China Lake and Pasadena NOTS Overseas Club will attend a barbecue at the home of the Leonard Semeyns in Monrovia tomorrow evening, September 21. Movies will be shown by Fred J. Vandenbrouck of the Pasadena Club.

**A Reminder**  
Today is the final day for signing up for the Las Vegas trip on October 11-13. Contact Nova Semeyn, Extension 35.