



HONORED GUESTS—ATN3 George Williamson (c), NWC's Bluejacket of the Month for November, and his lovely wife, Mary, are shown above chatting with actor Noah Beery, Jr., on the reviewing stand for the annual Valley Plaza Christmas Parade held last weekend in Bakersfield. Beery served as the parade's grand marshal. Williamson and his wife were in Bakersfield on an all-expense-paid weekend trip as guests of the Greater Bakersfield Chamber of Commerce. —Photo by Bill Valente

BPW's Christmas Program Dec. 9

The Christmas program meeting of the China Lake Business and Professional Women's Club will be held at the NWC Station Restaurant December 9, beginning at 11 a.m. June Renfro, first vice-president and program coordinator, is in charge of arrangements. Each person attending is to bring a home-made item for a gift exchange. According to Mrs. Renfro, participants should sew, bake, paint, or pot the gift, or whatever, as long as it is home-made. Door prizes will also be home made items. This meeting is planned as an old-fashioned Christmas celebration, and will include singing of Christmas songs. Irene Branham, president, announced that members are encouraged to bring guests and share this celebration.

CROSSWORD PUZZLE

Answer to Puzzle No. 2. Includes crossword puzzle grid and clues for Across and Down.

SHOWBOAT

NEW RATING PROCEDURES
Future ratings for motion pictures shown at the Center Theater will be based on two different types of ratings—the familiar Parents' Magazine ratings, and the new MPAA (Motion Picture Association of America) ratings. (The Parents' Magazine ratings will eventually be superseded completely by the MPAA ratings.)
The rating designations are:
MPAA*
(G)—General audiences.
(M)—Mature audiences, parents should use discretion.
(R)—Restricted, persons under 16 admitted only with parent or legal guardian.
PARENTS**
(A)—Adult
(Y)—Youths 13-17
(C)—Children 8-12
(M)—Mature for Y & C

FRIDAY DECEMBER 5
"EYE OF THE CAT" (102 Min.)
Michael Sarrazin, Gayle Hunnicutt
7:30 P.M.
(Suspense Drama) Wealthy invalid's nephew and her beautiful plot to intercede in her desire to leave riches to a horde of cats. It's a mystery you won't solve until the very end! (M) ** (A, Very MY)
Short: "Octoberfest" (9 Min.)

SATURDAY DECEMBER 6
—MATINEE—
"DOG OF FLANDERS" (94 Min.)
David Ladd
1:00 P.M.
Shorts: "Pluto's Sweater" (7 Min.)
"Canadian Mounted vs. Atomic Invaders" (No. 1 of 12, 20 Min.)

—EVENING—
"STRANGER IN TOWN" (86 Min.)
Tony Anthony, Frank Wolf
7:30 P.M.
(Western) A bold adventurer gambles his life in aiding bandits by taking a gold shipment meant for Mexican soldiers; his share to be part of the loot. Violence and torture result before the exciting climax. It's rough! (Adult)
Shorts: "TV of Tomorrow" (7 Min.)
"Fun at the Zoo" (14 Min.)

SUNDAY-MONDAY DECEMBER 7-8
"DOCTOR ZHIVAGO" (199 Min.)
Omar Sharif, Julie Christie, Rod Steiger, Alec Guinness
7:30 P.M.
(Drama) The story of Yuri Zhivago (Omar Sharif), poet and doctor, during the Russian Revolution. A touching, earthy love story and the poet's love for the land and his reaction to its beauty and suffering. A winner of six Academy Awards. (A, MY)

TUESDAY-WEDNESDAY DECEMBER 9-10
"MARLOWE" (96 Min.)
James Garner, Gayle Hunnicutt, Rita Moreno, Jackie Coogan
7:30 P.M.
(Detective/Drama) Intriguing who-done-it stars James Garner as Philip Marlowe, a rugged private eye determined to find a murderer only to become involved in a dope racket and a chain of murders. California scenes observed: A hippie hotel, TV studio, burlesque. Violence not emphasized. (M) ** (A, Very MY)
Short: "Advance and Be Mechanized" (6 Min.)

THURSDAY-FRIDAY DECEMBER 11-12
"THE GREAT BRINK ROBBERY" (96 Min.)
Zero Mostel, Kim Novak, Clint Walker
7:30 P.M.
(Comedy/Western) A slow prairie train in 1884 is held up by an unusual gang of bandits who make off with a cargo of gold, while pious Zero and tambourinist Kim lead the passengers in singing. Part of the gang robs a bank in a nearby town and Texas Ranger Clint Walker tracks them down. Amusing Western spoof. (M) ** (A, MY)
Short: "Boston Whack" (7 Min.)

According to Lt. J. T. Lewis, of the Medical Administrative Office, flu shots will again be offered to civilian employees on a voluntary basis, in accordance with the following schedule. Tuesday afternoon from 1 to 4 p.m., at the NWC Dispensary; Wednesday, 1 to 4 p.m., Michelson Laboratory's First Aid Station, and Thursday, 1 to 4 p.m., at Salt Wells First Aid Station. Persons allergic to chickens, feathers, or eggs will not be able to take the shots.



MISS KERN COUNTY NAVAL RESERVE—Miss Elizabeth Easley, crowned Miss Naval Reserve of Kern County in ceremonies held recently at the Naval and Marine Corps Reserve Training Center in Bakersfield, is pictured above receiving a trophy from an official at the 2nd annual Valley Plaza Christmas parade in that city last weekend. The 5'11" brown-haired beauty is employed as a receptionist at the Chamber of Commerce.

Discount Certificates Available For Universal Studios Tours

Discount certificates are now available for the Southland's most exciting family entertainment spot . . . Universal Studios, the world's largest motion picture location. Discount certificates will entitle Armed Forces military and civilian personnel, their families and friends to enjoy a specially reduced rate: \$3.00 for adults, \$2.20 for juniors, and \$1.40 for children. These prices will be in effect during the entire month of January. Youngsters under five years of age will be admitted free. Regular prices are: \$3.75, \$2.75, and \$1.75. Universal Studios Tour offers Armed Forces participants a unique glimpse into the glamor and excitement of the motion picture industry. This tour will take you through a star's dressing room, a prop warehouse, and a sound stage where you will see filming as used with video tape equipment. Your tram will cruise through familiar New York brownstone houses from the "Abbott and Costello" series, by the haunting "Psycho" house, and through western towns where small doorways

add stature to your favorite cowboy. You will also see European streets frequently filmed for such recent television series as "It Takes a Thief," "The Virginian," "The Name of the Game," "Ironside," "Dragnet 1970," "Marcus Welby, M.D.," Harold Robbins' "The Survivors," and "Adam 12." Universal's 420 acre lot also has its own man-made "oceans" and "rivers" that you will remember from "McHale's Navy" and "Wagon Train." At the Entertainment Center, you are invited to watch stuntmen staging "realistic" fight scenes and 20-foot falls. You will see an Animal Show with trained canine celebrities and at the Glamor Pavilion, a Make-up Demonstration by one of Hollywood's foremost make-up artists. There is also a special effects show set where you can create a complete snowstorm by the mere push of a button. You may also browse through souvenir gift shops and eat at our food concessions. Discount certificates for this exclusive month at Universal Studios are available at no charge at the Community Center.

Promotional Opportunities

(Continued from Page 2)
Civil Service Handbook X-118. Job Relevant Criteria: Knowledge and experience in electronic module packaging, particularly where it pertains to military ordnance electronic hardware. Experience in electronic drafting and in the layout of printed circuit master artwork. Experience in the development, application and review of formal documentation and familiarity with the NWC Drafting guide, Mil-Std-100 and Mil-D-1000.
File applications with Pat Gaunt, Bldg. 34, Rm. 34, Phone 71514.

From _____

TO _____

STAMP



Vol. XXIII, No. 48 Naval Weapons Center, China Lake, California Fri., Dec. 5, 1969

New Controlled Flight System Developed By Center Personnel

Presentation Of More Realistic Targets Results

Seventeen manned "hands-off" flight tests were conducted during the summer of 1969 aimed at the successful demonstration of a new digital proportional control flight system that will enable drones to be controlled and maneuvered in such a way as to make flight testing of current and future air-to-air and surface-to-surface missiles much more meaningful from the practical standpoint. The results of these tests conclusively showed that realistic flight characteristics could be programmed into a target drone, thereby making it a more realistic target. Up until now, targets for missile flight tests were flown on a more or less straight line due to the unavailability of hardware that would provide realistic flight characteristics normally shown by an evading aerial target.



OUT-OF-SIGHT CONTROL—Lt. Virg Kempenaar of NAF is shown above at the controls of a target drone that has been modified to include a television camera in its nose. Flight controls in the drone are linked to this set-up (which is located in a trailer) and permits controllers to present the drone as a more realistic target device.

Both systems are direct follow-on projects from work that was accomplished at China Lake on the Automatic Formation Drone Control and Visual Control (VISCON) programs. In operation, the drone controller "flies" the drone from an out-of-sight position. Television images, transmitted from a camera that is mounted in the nose of the drone, impart the "feel" of the drone's flight characteristics by showing the relationship to the horizon on monitor. The digital proportional control flight system produces a smooth stick and throttle response in direct relation to the commands sent. Landings, take-offs, high "G" maneuvers, split "S" maneuvers, and high-speed low-altitude flight can all be executed by the "out-of-sight" controller. The digital proportional control flight system is composed of five basic parts. They are: the Command Receiver Decoder; the Decoder Distribution Box; the Digital Demultiplexer, the Digital Command Control, and Airspeed and Speed Brake Position Encoders. In operation, command signals that are sent by the controller are translated into serial digital messages which are modulated on a carrier. Messages are sent (each is a

Continued on Page 7)



OFFICER RETURNS TO NWC—After three years' duty as Terrier Missile Officer aboard U.S.S. Long Beach, Lt. John N. Milliken, Jr. has returned to China Lake for duty at the Weapons Control Facility. From October 1962-66 Lt. Milliken was head of the Guidance Radar Branch (Code 3026) during his previous assignment at the Center when the research, development, testing and evaluation was done on Terrier, Tartar and Standard missiles. While on U.S.S. Long Beach he participated in three deployments to Southeast Asia and in five fleet exercises in Southern California coastal operating areas. Lt. Milliken has rejoined his family at 248 Graaf St., in Ridgecrest where his wife, Wanda, and their teen-age sons Stephen and David have resided while he was on U.S.S. Long Beach.



METEOROLOGIST — Lt. Donald R. Carver recently arrived at NWC to assume the duties of Research Meteorologist in Code 60221. The OCS graduate is a 9-year veteran and graduated from Ursinus College, Collegeville, Pa., with a BS in Biology. Lt. Carver also attended the Postgraduate School at Monterey. He holds the Air Medal with 3 oak leaf clusters. The new meteorologist and his wife Bonnie Jean, and two children, D. Craig, 6, and Joel Scott, 5, reside at 522-A Nimitz.

Council Devises Motorcycle Meet

The China Lake Community Council and the Sandblasters, Gypsy Wheels, and Desert Dwellers Motorcycle Clubs will co-sponsor a Motorcycle Field Meet at Mirror Lake on December 13. The meet is scheduled to start at 9 a.m. The event will feature contests of skill, course riding, safety demonstrations and tips on motorcycle maintenance. All individuals who intend to own or operate a motorcycle, or who already own one, are urged to attend and participate in the meet. Parents of young riders, in particular, are urged to attend in order to get an idea of the proper way to ride a motorcycle, as well as to learn how their offspring might enjoy ownership of a motorcycle. The field meet is part of a continuing program aimed at the safe enjoyment of this new sport by young and old alike. Bob Glenn of the Sandblasters MC is organizing a Motorcycle Explorer Scout Post, and asks that all those interested contact him at Ext. 71318, or 375-5695. Glenn and Mrs. Billie Hise, of the NWC Safety Department, have been engaged in visiting local schools giving a program on motorcycle safety and courtesy. The Community Council, realizing that the number of young cyclists is increasing, has been concerned with the problem of making these young people aware of the safety and responsibility factors involved in the operation of their machines. In response to these complaints, the Council, the Safe Driving Council, the Enlisted Men's Safety Driving Council, the Safety Department, and the aforementioned Motorcycle Clubs, have pooled their thinking in order to find ways to reduce the hazards to property and community unrest, while at the same time attempting to preserve the recreational re-

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CHAPLAIN'S MESSAGE

Looking Out My Window

GUEST CHAPLAIN
R. E. ELLIOTT, Capt., CHC, USN
District Chaplain, 3rd ND, N.Y.

A year ago when I looked out of this window at 90 Church Street, I watched the workers tearing down some old buildings and large mechanical shovels digging out a gigantic hole.

But those who dreamed of the future, visualized a great trading center where this valuable space could be used more effectively than the average person could even imagine—where an old, tired but fascinating number of quaint shops would be transformed into the most fabulous trading center in the entire world, where millions of people could receive benefits not yet thought of.

In all of this I see enacted an important principle. First, in the old group of buildings it was easy to see that a change was needed. But before a single stone or brick was removed a constructive plan of procedure was presented and after much hard work was agreed upon.

We in our nation and the churches could learn from this. We certainly should change with the times, make plans of mighty scope, dream great dreams for the future, and orderly tear down the old and ineffective to make room for the new, not to destroy just to destroy but to be relevant, meaningful, helpful, constructive and effective for the "now" and for the future.



SAFETY RECOGNITION—The two men holding certificates were honored recently for 15 and 20 years' supervision without a lost time accident. They are: Dr. W. S. McEwan, (2nd left), Head, Chemistry Division, and George Pruitt, former head (now retired) of Code 5545, (2nd right).

The Rocketeer

Official Weekly Publication
U. S. Naval Weapons Center
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NWC Commander

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DEADLINES:
News Stories Tuesday, 4:30 p.m.
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PHones 71354, 71655, 72082



DIVINE SERVICES

Protestant (All-Faith Chapel)—
Morning Worship—9:30 a.m.
Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant.

Thursday—Service at 5:00 p.m. (Organ Prelude at 4:45 p.m.)

Roman Catholic (All-Faith Chapel)—
Holy Mass—7, 8:30, and 11 a.m. Sunday.

Daily Mass—11:30 a.m. in Blessed Sacrament Chapel, Saturday, 8:30 a.m.

Confessions—7 to 8 p.m. Saturday, and 8 to 8:25 a.m. Sunday.

NWC Jewish Services (East Wing All-Faith Chapel)—8 p.m. every first and third Friday.

Sabbath School—10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship—(Chapel Annex 95, 95 King Ave.)—Sundays, 7:30 p.m.

PROMOTIONAL OPPORTUNITIES

Employees are encouraged to apply for the positions listed below. Current applications (SF-171) or Standard Form 58 bringing your work history up-to-date should be forwarded as described below. The fact that positions are advertised here does not preclude the use of other means to fill these positions.

The vacancies listed below are effective from 5 to 12 December, 1969.

Fiscal Accounting Clerk, GS-501-3 or 4, Code 1765—Assists in the auditing of civilian payrolls to insure the correctness, assists in the audit of military payroll checks and is responsible for verification, sorting, etc. Assists in timely distribution of U. S. Savings Bonds, reports, etc. Minimum Qualification Requirements: GS-3, Trainee position, 1 year of general clerical experience, GS-4, 1 year of general clerical experience and 1 year of specialized experience. Advancement Potential: GS-3 may advance to GS-4.

Telephone Operator, GS-382-2 or 3, Code 85441—Place and receive a variety of local, long distance, information and emergency type telephone calls ranging from simple to complex. Minimum Qualification Requirements: GS-2, Trainee position. High school graduate or 6 months telephone operator experience, GS-3, 1 year experience as telephone operator. Advancement Potential: GS-2 may advance to GS-3.

File application for the above with Sue Prusolowicz, Bldg. 34, Rm. 28, ext. 71577.

Accounts Maintenance Clerk, GS-520-3, 4, Code 5540, PD No. 005072—Incumbent transfers labor charges on time distribution books to shop production order card record sheets and from this basic data compiles reports on manpower distribution by charge categories weekly and monthly. Minimum Qualification Requirements: Applicants must meet the requirements of Civil Service Handbook X-118. Job Relevant Criteria: Experience in the fiscal and general accounting procedures concerned with labor and timekeeping principles. Advancement Potential: GS-4.

File above applications with Pat Gaunt, Bldg. 34, Rm. 34, Ph. 71514.

Shop Planner (Public Works), JD No. 240-5, WD-47052-35(11), Code 704—The Shop Planner will process all Shop Orders, Job Orders for his shops; order standard and non-standard equipment and write Inter-Shop Orders for prefabrication by other shops. In order to accomplish this, on receiving Job Orders or Shop Orders, the Shop Planner will check the jobs for material and see that all material necessary to do the work requested is in stock. If the material is not in stock, the Shop Planner will order such material as needed and when received will notify the craft or shop supervisor that the material has been received. Minimum Qualification Requirements: Qualified candidates must have obtained journeyman status in one of the metal trades, Machinist, Machinist (Maintenance), Welder, Sheetmetal, Structural Iron Worker. Applicants will be rated by the appropriate J-Element standard in accordance with the Civil Service Commissions X-118C. A register of eligibles will be established on the basis of this announcement and will remain in effect not to exceed one (1) year.

File applications with Betty Geiser, Code 652, Phone 72657.

Budget Analyst, GS-560-9/11, Code 5502, PD No. 855119—This position is located in the Office of Head of Staff, Engineering Department. The incumbent is responsible for formulating, presenting and executing the budget and for maintaining a thorough and complete awareness of all Department activity as it relates to the budget function. The incumbent conducts studies and analyses for use both in the short-range and long-range technical planning of the Department's programs and is responsible for the consolidation, preparation and follow-up of a well planned, coherent budget each fiscal year. Minimum Qualifications: 3 years of general and 3 years of specialized experience. Applicants must meet the requirements of Civil Service Handbook X-118.

Electronics Technician, GS-856-11, Code 5534, PD No. 6955121—Duties involve design and development of prototype electronic hardware packages. The incumbent is responsible for: selection of packaging configuration; development of printed circuit master artwork; fabrication of prototype electronic modules; testing and evaluating the performance of circuits; bringing raw design data and breadboard hardware into sketch form; performing technical liaison with Center development groups, other laboratories and activities and contractors; and evaluating the technical accuracy of production documentation. Minimum Qualifications: 2 years of general experience and 4 years of specialized experience. Applicants must meet the requirements of Civil Service Handbook X-118.

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'DESERT PHILOSOPHER'

Birds From India



By "POP" LOFINCK

Now would be a good time to tell you more about the Chukar since the hunting season on NWC Ranges has been extended.

Although the Chukar population on the NWC Ranges is high, most of the birds have managed to avoid the hunters thus far. Very few sportsmen are getting their full bag.

So, the Upland Gamebird season was extended for six weeks, and hunters have until the week-end of January 10-11 to get their game. (The full story on this appeared in the October 31 issue of the ROCKETEER.)

Why Birds Are Hard To Find

Two of the main reasons the birds are hard to bag are—they are well scattered, and they're up pretty high. Soon as the weather turns colder, the water in the high places will freeze up and the crafty birds will have to come down for water.

Then hunters will be able to get their bag limits.

Partridges Came From India

You may have wondered how these Chukar Partridges—all the way from India—got here on this desert base in the first place.

Here is the story from the beginning:

The first Chukars acquired by the California Department of Fish and Game, for breeding stock, were obtained from Mr. Leland Smith—a private game breeder of Woodland, California.

His stock was purchased originally from a game handler in Calcutta, India, in 1928—and apparently was the race known as Alexitoris Graeca Chukar.

So the Department of Fish and Game started their own breeding farm for Chukars.

The first Chukars were liberated from the game farm in 1932.

By 1953 Chukars were planted in all but four counties of California.

But Chukars reared on game farms don't do as well as wild-trapped birds when transplanted to areas that do not already have a population of Chukars.

In fact, they won't mix—the game-farm Chukars stay put near the spring where they're planted.

The wild-trapped birds, released at the same spring, will forage out on their own to find a better area for feeding.

The Chukar likes areas not too far from rocks—maybe they get bugs from around the rocks.

The Game Department men identify the birds by the bands on their legs—they're all banded before they're released.

Navy and Game Department Cooperate

Since 1954 the Game Management Branch has trapped Chukars on the north range area of the base and transplanted them to areas where they can be hunted, and they have been very successful in establishing populations where they did not exist before.

Chukars seem to have done better in the upland area of the base ranges than any other part of the state because of ideal habitat and the protection of the Navy.

For a number of years the Game Management Branch of the California Department of Fish and Game has worked in close cooperation with the Command on the Navy Wild Life Program for conservation and rejuvenation of natural resources.



MASONS VISIT NWC—Royal Arch Masons and their wives are shown touring Michelson Museum during the recent visit of Robert R. House, Grand High Priest. Mr. House was hosted by the local Norris C. Viles Chapter of the Royal Arch Masons headed by Charles Swedblom, High Priest of the local Masonic Lodge.

Community Council Devises 'Cycle Meet in Answer to Recent Study

(Continued from Page 1)
wards of operating a motorcycle.

A Center instruction governing the operation of motorcycles on the Weapons Center will be submitted for consideration by Command in the near future.

In the meantime, the many groups mentioned above have offered the following suggestions as aids to making cycling happier and safer for all:

DO—Wear proper helmets and proper footwear. Bare heads and bare feet are an invitation to disaster for the motorcyclist and others.

DO—Attend safety and skill classes conducted by the various Motorcycling Clubs and the Safety Department.

DO—Give hand signals as well as automatic signals.

DO—Make ones-self visible. Use reflective tape on helmets and turn headlamps on very early in the evening.

DO—Register unlicensed motorcycles with Base Security. Security will issue a number to the 'cyclist and keep that number on file to aid in recovery of the vehicle if it is stolen.

DO—Respect the rights, properties and sensibilities of other 'cyclists and motorists, and residents.

DO—Ride an unlicensed motorcycle on streets, in alleys or on parking lots. This is ILLEGAL.

DON'T—Ride faster than 10-mph or ride any unmuffled 'cycle through "Wherry Wash."

DON'T—Ride within 100 feet of any primary road.

DON'T—Ride a "desert 'cycle" without lights after dark. The rider may make things permanently dark for themselves.

The Council suggests that observance of these rules of common sense and ordinary courtesy will go a long way toward making 'cycling safer and more fun for more people. Laws recently passed provide penalties for reckless riding and excessive noise, even if the violations occur on private property.

Observance of sensible rules would make these strict laws unnecessary.

In addition, the riding public is reminded that "B" Mountain is part of the Ground Ranges, and as such is restricted except to authorized personnel.

The Council, and the local Motorcycle Clubs, would like to cordially invite all residents interested in learning the safe way to operate a motorcycle to attend the Field Meet.

Oasis Garden Club Members Embark on Conservation Program

The Indian Wells Valley Oasis Garden Club has embarked on their own Conservation program. They have arranged for Belva Edmiston, secretary for the Committee For the Preservation of the Tule Elk, to present a slide program on the Tule Elk at Valley schools on December 11th and 12th. This will be the second in a series of educational conservation programs sponsored by the Oasis Garden Club.

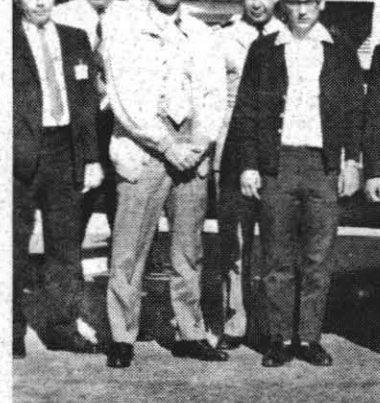
On Dec. 11 the slide program will be given at the Murray School Cafeteria at 8:20 a.m., at Inyokern School at 10 a.m., and at the Seventh Day Adventist School in Ridgecrest at 2 p.m.

On Dec. 12 the program will be given at the James Monroe School, Ridgecrest, at 9 and 10 a.m. The upper grades of St. Ann's Catholic School will be included in one of the assembly programs at the Monroe School.

Also, the Tule Elk slide program will be presented at a joint meeting and potluck supper of the Ridgecrest Desert Planters and the IWV Oasis Garden Club on Dec. 11 at 6:30 p.m. in the Panamint Hall, China Lake Community Center.

EM Club Presents 'The Rubber Band'

According to Tom Moser, manager of the Enlisted Men's Club, the Rubber Band will return for a one-night engagement Friday, December 5. This popular group played to a "standing room only" crowd last Friday, so Moser cautioned that all those planning to attend should arrive early to ensure seats.



NWC HOSTS POINT MUGU VISITORS—The civilian-military team of Air-to-Surface Weapons Branch of the Test Department from the Naval Missile Center, Point Mugu,

California, are shown at the Michelson Laboratory weapons display during their recent orientation visit to the Center.

Photo By PH2 D. E. Hart

motorcycle on streets, in alleys or on parking lots. This is ILLEGAL.

DON'T—Ride near the golf course or stable areas.

DON'T—Ride faster than 10-mph or ride any unmuffled 'cycle through "Wherry Wash."

DON'T—Ride within 100 feet of any primary road.

DON'T—Ride a "desert 'cycle" without lights after dark. The rider may make things permanently dark for themselves.

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complete flight update) at the rate of 5.5 per second, assuring smooth control of the drone. Each message contains 48-bits of information formatted into two frames of twenty-four bits each. Each of the two frames control information for three of the controlled commands.

In this manner, commands are sent to the drone for pitch, roll, throttle, rudder/nose wheel functions, as well as high priority on-off commands such as carrier recovery, drag chute jettison, flaps, landing gear, trim, speedbrakes, arresting hook, etc.

In the drone, the above signals are fed into a digital command controller which (a) determines which proportional controls to activate; (b) computes direction and magnitude of each control's response; and (c) converts the parallel digital commands into an analog format which is amplified and which is the basis on which the drone controls are activated.

Actually, the digital command controller performs this operation simultaneously on all of the proportional controls in response to each incoming message.

The new system was developed by the Systems Development Department under the leadership of LeRoy Mar-

quardt, Project Manager, and Curt Bryan, Assistant Project Manager. Others from Code 30 who participated included Don Sherman, Terry Hern and Bill Lalar. Floyd Kinder, VISCON Project Manager, also lent valuable assistance.

Lt. Virgil Kempenaar and Lt. Hugh Lankford of NAF have been performing the actual "out-of-sight" controlling of the drone during tests, and Lloyd Holt, George Mullett, and Warrant Officer Harry Miller of NAF's Target group assisted with the installation of the TV hardware and the in-flight operations of the drone.

Seibel attended the University during the 1968-69 academic year under a Weapons Control Systems Engineering award and pursued studies in Electromagnetic Field theory and Microwave techniques.

He obtained his bachelors degree from New Mexico State University in June 1966, following which he was employed at Corona.



702 Rolled By ACE-TV Anchor-Man Brightwell

The first 700-plus series of the winter league season was fired Monday night in the Premier League when Thad Brightwell, anchor man for the league-leading Ace-TV squad, stroked games of 242-213-247 for a 702 series. Strangely enough, Brightwell, who is currently averaging 194, had to struggle to win two points against a fired-up Bob Sickles, who bowls in the anchor spot for Starlite Room. Sickles shot a 225 middle game and ended



Thad Brightwell

the night with a 245, only two points behind Brightwell.

Jim "Tiger" Peck prowled the lanes Monday night as he led Tom's Place to a 16-point victory over a hapless AV Trophy team. Peck had the high game for the evening, a fine 256, coupled with a 213 for a 642 series. Elmer Davis rolled 226-207 and a 623 series and anchor man Fred Dalpiaz shot 216-210 enroute to a 616 series.

Bryan Schuetze, who rolls for Ace-TV, made his presence known Monday night by shooting 222 and 210 for a 610 total. Other fine series scores: R. C. Jones, of Starlite Room, 222-208 and a 615, and Sickles, a 597.

There were 31 games of 200 or better rolled last Monday. Among them were a 222 by Ken Dalpiaz; Chuck Cutsinger, 223; Leo Montano, 223; and Gordon Slock, 231.

Ace-TV shot a 3007 series, high for the year, and China Lake Navy set a new high game for the league, a 1025 effort. Ace-TV shot a 1024.

Standings follow at the end of the page.

Midway League
The Chillers are still on top of the heap in the Tuesday night Midway League with a 41 and 15 record, followed closely by the Mixers who have won 40 and lost 16.

The Elks Lodge shot a 2617 series to lead the league last Tuesday night, and the Chillers had high game with a 911.

John Ito was the high individual with a 592 series and Harry

Loyal and Cecil White both shot 220 to tie for high game honors.

Other nice games during the evening: Ernie Lanterman and B. McLeod, 215; and Jan Geiger, 214.

Women's Wed. Nite

Rizzardini's hit 965 and Charlon & Simolon a 2654 to lead the team scoring November 19 in the Women's Wednesday Night Handicap League. There was no bowling on November 26 due to the Thanksgiving holiday.

Betty Kirwin and Connie Evans led individual series scoring with 559 and 543 respectively, and Betty led the high game scoring with a nice 232 effort. Cynthia (Cindy) Schoenhals shot a 220.

Rita Glover reportedly picked up a 6-7-10 split. Nice shooting, Rita.

Supply Dept. Mixed

John Sheperd rolled a 233 game enroute to a 574 series to lead the men's individual scoring, while Aline Fry had 205—541 to lead the distaff bowlers.

The Alley Cats put together three good games for a 2730 series and the Outcasts whomped out a 1003 game to lead team tallies.

Military Ball & Chain

Aardvark, Inc., was the hot team November 19 with high game of 856 and high series of 2481 to lead the league.

Arlande Winslow shot a 604 series and Bob (Big "O") Owens had a 230 game to lead the male bowlers, while Sallie Stephenson shot 202 and a 505 series to lead the ladies.

On November 26 Mercury Moving was high with an 803 and The Rustlers shot a 2367 series to lead team scoring.

Arlande Winslow again shot a 213 and a 577 to finish high among the male contingent, while Judy Johnson showed her heels to the ladies, hitting 202 and 475.

Prep League

There were a few good games for the 7-9 bowlers of the Prep League, who meet on Saturday's at China Lake Bowl.

Young Mike Chartier shot a 147 game and Vic Wiggins a 141 followed closely by Kim McNew, 118; Lori Bowles, 113; Kathy Donahue, 108; and Annette Heak, 100.

PREMIER LEAGUE STANDINGS		
	Won	Lost
Ace TV	174.5	85.5
Boyd's Auto	148	112
AV Trophy	139	121
China Lake Navy	138	122
Ridgecrest Lanes	137.5	122.5
Tom's Place	131.5	128.5
Starlite Room	121	139
Kirkpatrick's	120	140
Mercury Moving	114	146
Team No. 10	76.5	183.5

'The Gents' And 'The Blue Mist' At Club Chaparral

Boxing Program To Be Presented By Local Groups

The IWV Youth Football League, in cooperation with the China Lake Youth Center, will present a Championship Boxing Show, Saturday, December 6, beginning at 8 p.m., in the Burroughs High School Gymnasium.

The show will feature 12 bouts, with boxers from Southern California versus young boys from the Indian Wells Valley.

In the Junior Division, Randy Shields, trained and handled by Audie Murphy, will fight Jimmy Annos, representing the Youth Center.

Audie Murphy, well-known actor and hero of World War II, in which he was the United States' most decorated soldier, will be on hand to referee the bout.

Also fighting in the Junior Division will be Duane Staat vs. local boy Kenny Willis, of Inyokern.

In the Senior Division, heavyweights Wayne (Fireman) Blowers will meet Jimmy "Barnacle Bill" Britanyak. Both boys are local servicemen.

Sid Ramiraz, representing a local business concern, will also be on the card, as will Kenny Willis, Sr., a well-known amateur boxer in Texas a few years back.

Tickets are available at the Station Pharmacy and at the Youth Center, on the Center, and at the Gift Mart, in Ridgecrest.

Anyone desiring further information about the program is asked to call the Youth Center, ext. 72909.

USC Profs To Hold Interviews Of Local Students

Students currently enrolled in the local USC Graduate Program in Engineering, or planning to enroll in the courses to be offered during the coming Spring Semester, are hereby advised that Professors Freberg and Nahi of USC will be coming to China Lake on Thursday, December 11.

Anyone planning to enroll in the program who has not yet had an interview with one of these advisors, or any currently enrolled students desiring advice, should contact the Education Director's office, ext. 72934 or 72926, for an appointment.

USC courses scheduled to be offered during the second semester of this year are:

- EE 470—Electromagnetics II
- EE 562—Random Processes in Engineering
- EE 581—Linear Control System Design
- ME 525a—Engineering Analysis
- ME 518—Advanced Fluid Mechanics
- ME 575—Advanced Analytical Methods

Announcements defining the content of these courses and presenting information on registration procedures in addition to where and when the classes will meet, will be distributed throughout the Center on Employee Development Opportunity (EDO) notices next week.

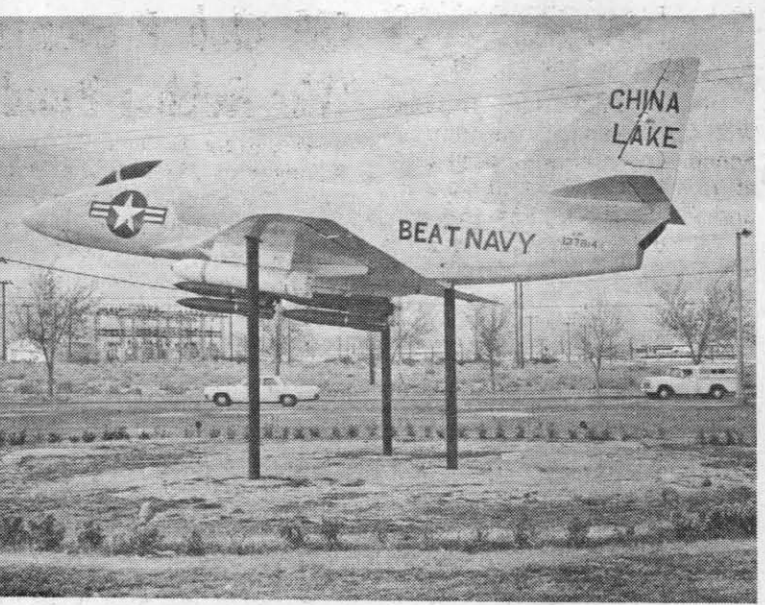


WAYNE (FIREMAN) BLOWERS is shown holding Kenny Willis, Jr. (l), and Duane Staat (r), in the ring at the China Lake Youth Center. The three local contestants will fight visitors from the Southland Saturday, December 6, in a 12-bout card at the Burroughs High School Gymnasium.

Pool To Close

According to Bill Nicol, Intramural Director, the swimming pool in the Center Gymnasium will be closed from Monday, December 8 to Monday, December 15. The reason for the closing, Nicol stated, is to allow for installation of new equipment, including diving boards, ladders, etc. In addition, Nicol announced that the Camping Equipment Issue Room will also be closed from December 12 to January 8.

Army Fan Lives It Up



BEAT NAVY—And they did! But wait 'til next year, promised Capt. M. R. Etheridge, NWC Commander. The standard at left was found hanging from a tree across from the Center Commander's home at 1 Enterprise Rd. hung there by an unidentified West Point roofer prior to the traditional Army-Navy game last Saturday. The "Beat" was added to the word "Navy" painted on the side of the plane in Switzer Circle, also done by an unidentified Army fan.

Junior Keglers Sponsor Bowling 'Christmas Gig'

A bowling tournament for junior bowlers, sponsored jointly by the China Lake Youth Center, and the Ridgecrest-China Lake Junior Bowling Association, will be held Saturday, December 20 at the China Lake Bowl. The tournament will also be held on Sunday, December 21, if the number of entries requires an additional day.

Called a "Christmas Gig," the tournament will be open to all children of the Indian Wells Valley from the ages of 7 to 18. Bowlers will be divided into four age groups: 7 to 9; 10 to 12; 13 to 15, and 16 to 18.

A standard entering average has been set for those youths who do not bowl in leagues and do not have an established average. These entering averages were gained by computing the average scores rolled by children bowling in Junior Leagues in the respective age groups. The entering averages are: 7-9, 75; 10-12, 100; 13-15, 125; 16-18, 150.

Those youngsters having an established average will use it.

Doubles Event

The tournament will be a doubles event, and all partners will be selected by a drawing. All AJBC rules and regulations will govern the tourney.

Entry fees are based on age, and on the status of the entrant. Ages 7-10 pay an entry fee of \$1.50 if they are AJBC members, or \$1.75 if they do not belong to the American Junior Bowling Congress, but do belong to the Youth Center. If they belong to neither organization, the entry fee is \$2.50.

Entrants between the ages of 11 and 18 who belong to the AJBC will pay \$2; Youth Center members, \$2.25; and non-members, \$3.

For further information, contact Jeanne Crom, 375-9626, or Jean Boulden, 375-2239.



SAFETY AWARD—Capt. J. K. McConeghy, Jr. (r), NWC Executive Officer, is shown presenting a Fleet Safety Award to the Professional Drivers of Code 7078 for 625,000 miles with only one accident. The Operations Branch of Public Works won first place in the Federal Government Activities category, covering fleets operating between 50,000 and 100,000 miles per month. Thomas W. Boyd, Head, Transportation Division, accepts the award.

Animal Bites Can Result in Dangerous Infections, Warns Dr. Owen Kearns

According to Dr. Owen A. Kearns, County Health Officer, parents should teach their children to protect themselves from animal bites that may result in dangerous infections and costly medical bills.

Dr. Kearns issued the advice out of concern over thousands of bites being inflicted on young children every year in the country from both domestic and wild animals.

"Animal control officers from the Health Department investigate an average of 3,000 reported animal bites every year, but we know there are thousands of others which never come to our attention because they aren't reported," Dr. Kearns said.

Although more animal bites occur during the summer vacation period, children walking to and from school during school sessions are often exposed to animal bites. Dr. Kearns pointed out. Also, stray animals wandering around school premises are always a problem to school administrators, teachers, and pupils.

"While our primary concern is the possibility of rabies infections, there are other dangerous diseases a child can contract from animal bites, including tetanus and bubonic plague (squirrels, chipmunks, woodrats, and other rodents)," Dr. Kearns said. Some infections caused by bacteria often found in the respiratory tracts of cats and dogs can be quite painful, but they are easily controlled by antibiotics if the victims can get prompt medical treatment.

The Health Officer offered these tips to parents to help them protect their children from animal bites:

Never allow your child near strange, sick, injured, wild, or nervous animals, or to enter yards housing these animals.

Don't let your child try to stop an animal fight. Instruct him to seek aid from an adult.

Caution him not to tease, make threatening gestures, or remove food or toys from an animal. Tell him to speak first

Navy Kids Get Citizenship Papers

Father Relates Family Reaction

"Now I can join the Service," and "Now I can vote"—these were the excited comments of Roland DeJesus and his sister, Luisa, upon receiving their naturalization papers last week at the county seat in Bakersfield.

Although it will be a few years before either ambition can be realized — Roland is only eleven and Luisa is only eight years of age—as naturalized citizens of the United States, they can now look forward to having these aspirations fulfilled.

Roland, the son of a local Navyman, plans to become a chaplain in the United States Navy and Luisa is anxiously waiting for the day when she can vote.

Group's Youngest

The aspiring, new citizens were the youngest of a group of thirty-four petitioners admitted to United States citizenship on November 19th in the Superior Court of Kern County at Bakersfield, California.

In ceremonies that opened with the posting of the Nation's colors, Father Daniel De Dominicis delivered the invocation, attorney Leonard McGillivray delivered an address, the oath of allegiance was administered by Vera K. Gibson, County Clerk, and Stephen Eyerherbide, president of the Kern County Bar Association, led the new citizens in their first pledge of allegiance to the flag of the United States of America.

Prior to the hearing Roland and Luisa studied manuals furnished by the National Society of Daughters of the American Revolution. The hearing included a verbal examination in which they were asked questions concerning the presidency and the government, and Ro-

Navy Kids

Rollie and Lilli Belle, as they are known to their family and



NEW U.S. CITIZENS—Two recent naturalized citizens of the United States are Rollie De Jesus, age 11 (far left) and his sister, Lilli Belle, age 8 (far right) who received their naturalization papers during ceremonies held in Bakersfield last week. They are shown with their proud parents, PN-1 Wilfrido and "Tita" De Jesus and younger brother, Raymond, age 5. Wilfrido, originally from the Philippines, said of his two sons, "They will never burn their draft card!"

lard was asked if, when he becomes of age, would he be willing to bear arms with the armed forces of the United States.

At the conclusion of the hearing each petitioner was given an American flag and a book on flag handling and display respect, presented to them by the Ladies Auxiliary, Post 6601, Veterans of Foreign Wars, and the League of Women Voters furnished pamphlets on How to Register and Vote.

Then Roland and Luisa gathered with the other new citizens in the County Clerk's office for signing their certificates of Naturalization. The Women's Club of Bakersfield hosted the reception that followed. Bakersfield news media covered the ceremony which was shown on newscasts of TV Channel 28, Bakersfield.

In conversation with the Rocketeer staff, the proud father stated that "this was a great achievement that Rollie and Lilli Belle have obtained," and for the DeJesus family this was truly a great Thanksgiving Holiday.



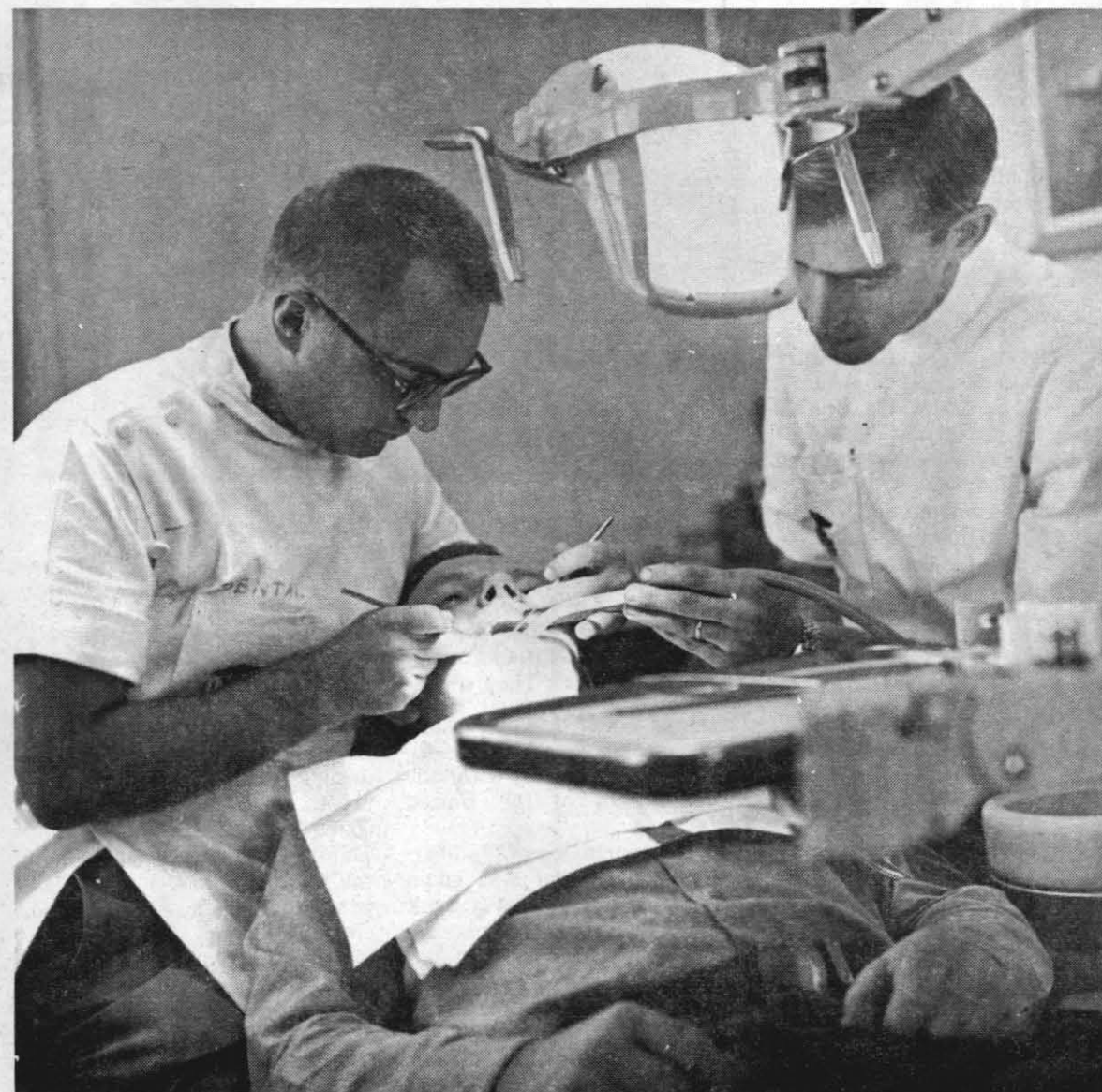
ADMIRALS VISIT CENTER—Five 11ND Naval Reserve Flag Officers are shown in the Michelson Laboratory Display Center during a two-day tour of the Center November 30 and December 1. The Admirals, shown here with Capt. Robert S. Moore, NWC Technical Officer, (r) are, (l to r), RAdm. C. W. Shattuck, RAdm. H. E. Holman, RAdm. R. S. Garrison, RAdm. G. T. Martin, and RAdm. C. N. Paxton. The visitors toured Michelson Laboratory, aircraft and ground test ranges, and other facilities.

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Help line Inc

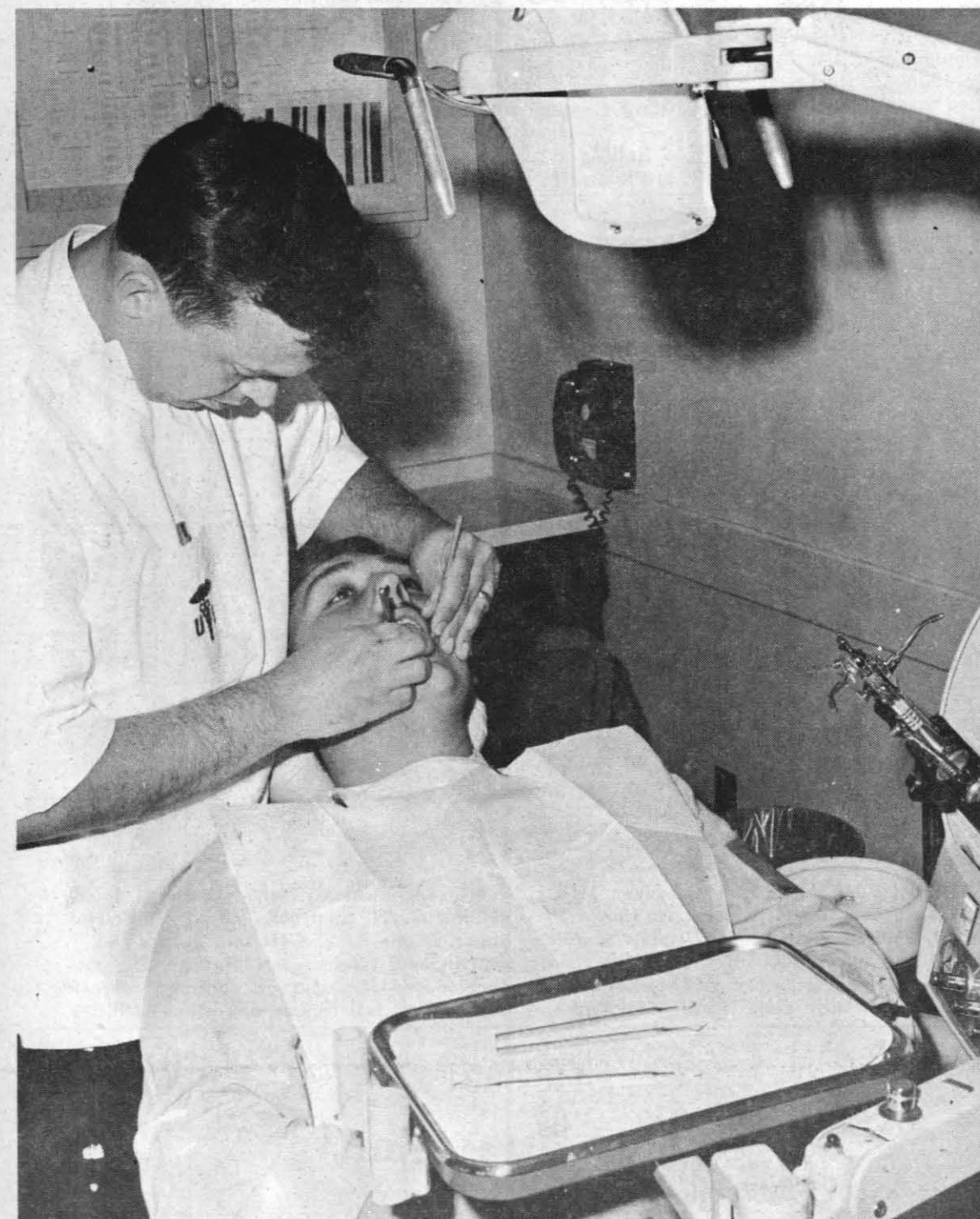
Blue Cross Ins. Agent At Community Center Wednesday, Dec. 10

Modern Dental Department Provides Expert Center Capability



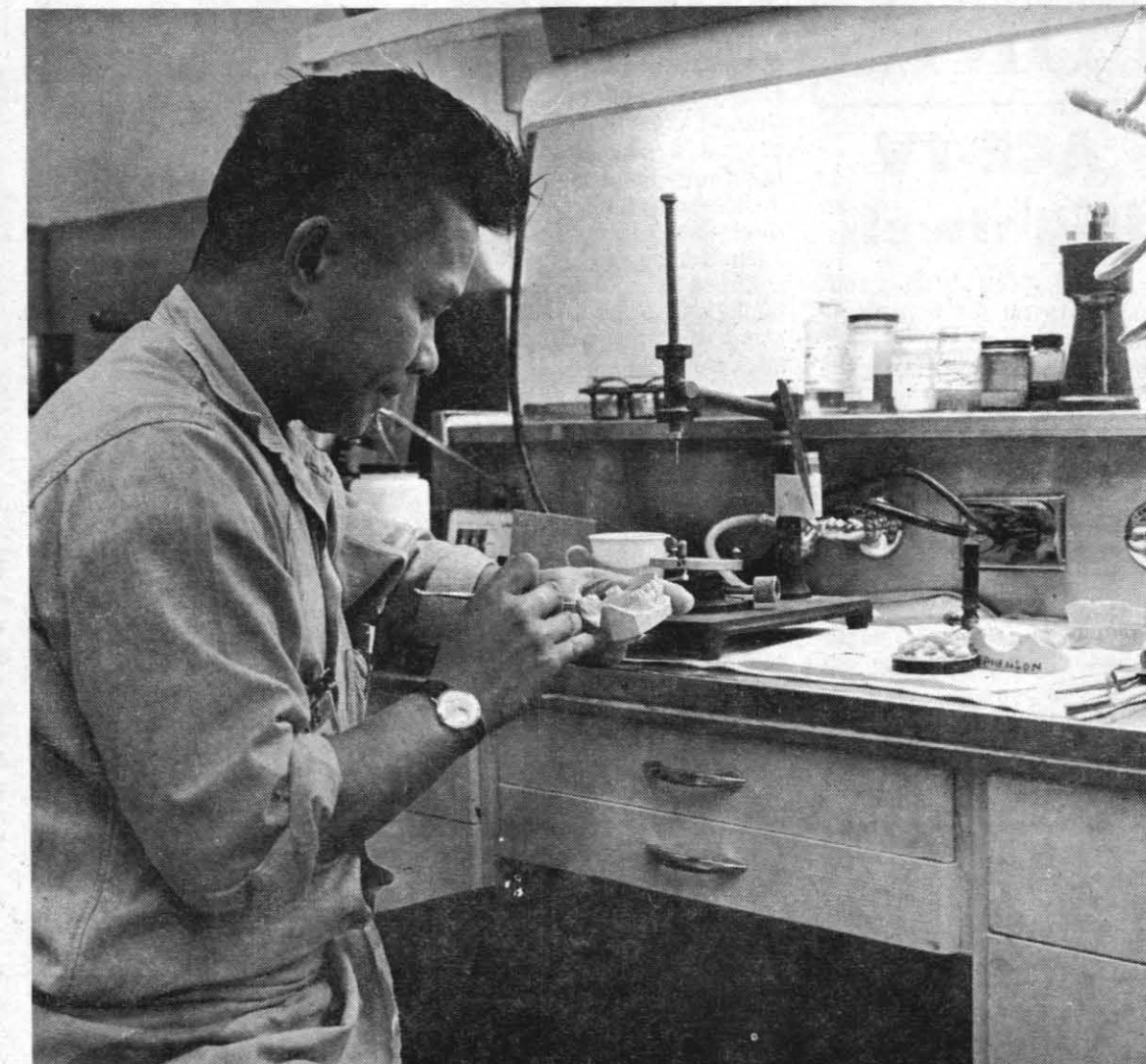
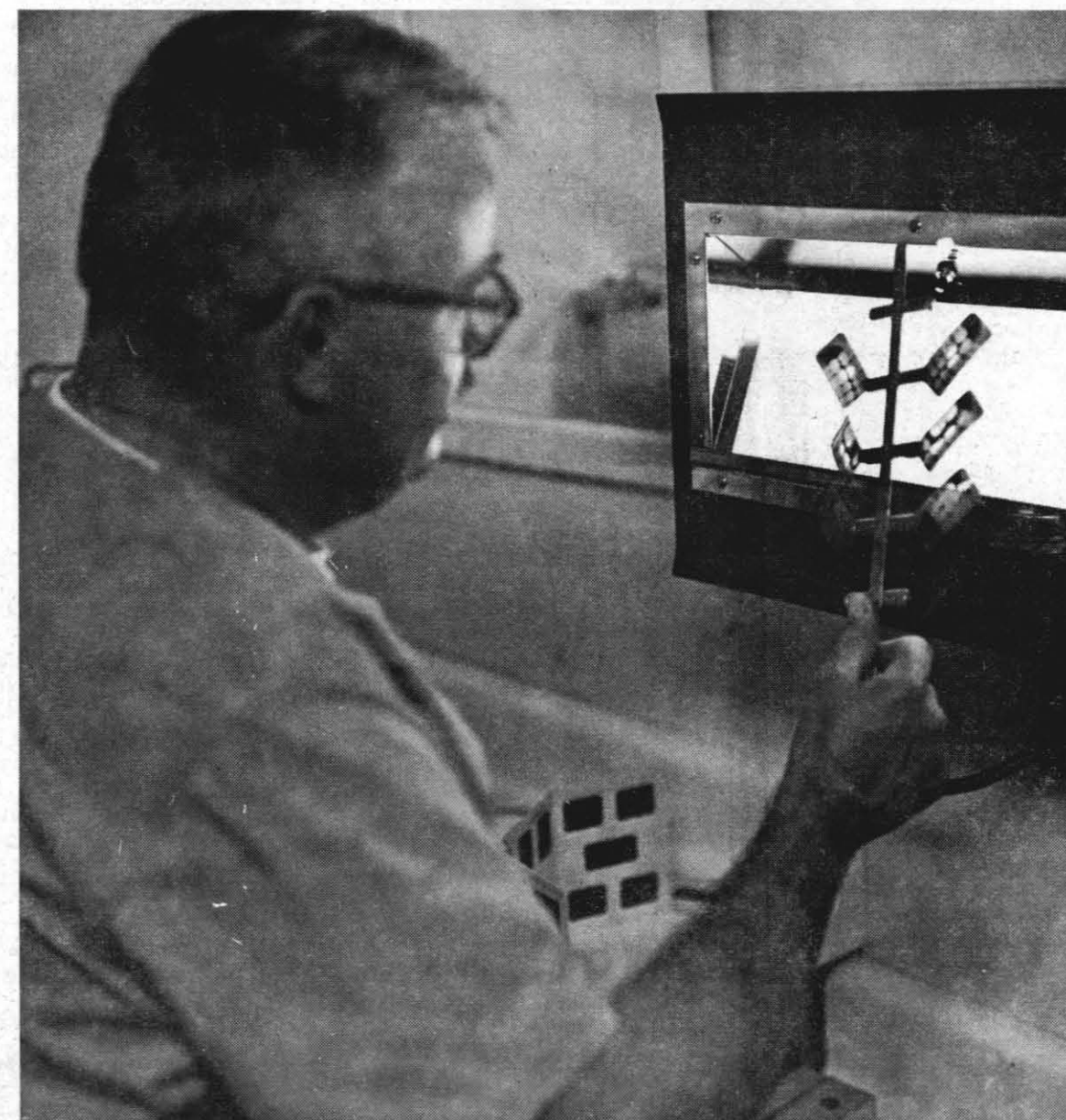
ABOVE—LCdr. R. W. Scott, Assistant Dental Officer, is shown operating on a patient at the NWC Dental Clinic. LCdr. Scott is assisted by DT1 D. Wightman. BELOW—DT1

R. J. Benbrook, is shown performing an oral prophylaxis and dispensing a stannous fluoride treatment on a patient at the Dental Clinic.



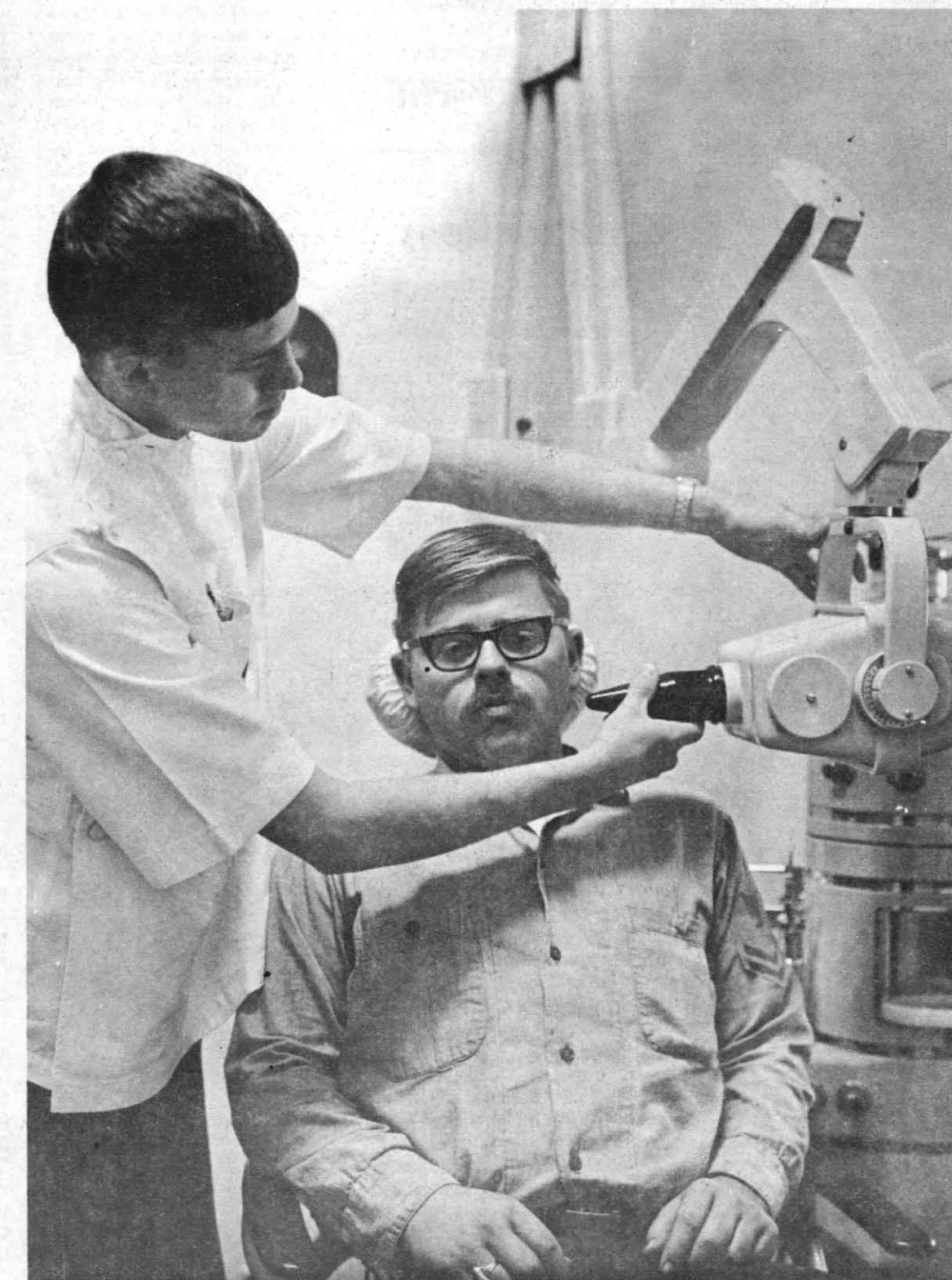
ABOVE—DT1 M. B. Duldulao, a laboratory technician at the Clinic, is selecting teeth for a denture plate. BELOW—Capt. T. D. Stephenson, NWC Dental Officer, is shown reading X-ray's of a patients teeth in order to determine their condition.

enson, NWC Dental Officer, is shown reading X-ray's of a patients teeth in order to determine their condition.



ABOVE—DT1 Duldulao is shown fabricating dentures in the dental laboratory located at the NWC Dispensary. BELOW—DN T. R.

Lee operates the Dental X-ray equipment while the patient sits quietly contemplating his fate.



Preventive Dentistry Active Part of Work

The Dental Department of the Naval Weapons Center is located in the north wing of the Station Dispensary.

Staffed by two Dental Officers and four dental technicians, it offers a complete range of dental professional services to both active duty military personnel and to retired military personnel living in the area.

The department has four modern, well-equipped dental operating rooms, an X-ray facility and a prosthetic laboratory.

Capabilities include dental prosthetic services, surgical care, operative procedures, endodontic and periodontic care, and oral diagnostic and X-ray services.

In addition to providing complete dental care to members of the military services, the department is actively participating in the Navy-wide Preventive Dentistry Program, offered to children of both active and retired military personnel, 6 years of age and older.

This program consists of treating the children with the Navy Dental Corps' "three-step" Stannous Fluoride preventive dentistry therapy.

Briefly, the treatment is as follows:

Step 1: Oral prophylaxis of the teeth with a compatible pumice-stannous fluoride paste, applied with a small rubber cup.

Step 2: Drying and painting the teeth with a clear solution of stannous fluoride liquid.

Step 3: Oral home care instructions and continued patient use of one of the recommended stannous fluoride toothpastes.

The Navy Dental Corps has found that this treatment, repeated annually, has resulted in a highly significant reduction in the occurrence of dental decay in all year groups. The treatment is offered to dependent children as a health service and is another example of "The Navy taking care of its own."

This year, the children's preventive dentistry program will be offered during the period of December 22 to January 2, 1970, a period coinciding with the local school holiday vacation.

Throughout its 58-year history, the Naval Dental Corps has been among the leaders in the development of new treatment techniques, while pioneering in the development of modern dental equipment, and adding to the knowledge of dental diseases through research.

The NWC Dental Department is commanded by Capt. Thomas D. Stephenson. LCdr. R. W. Scott is the Assistant Dental Officer.

RAdm. F. M. Kyes, of the 11th Naval District, San Diego, is the Director of Dental Activities for the District.

Photography

By

PH2 M. F. Krause