

Kristin Berry Earns Ph.D In Zoology at UC Berkeley

A Ph.D. in population biology was awarded recently by the University of California at Berkeley to Kristin Berry, wife of Dr. Robert Berry, an NWC employee, and daughter of Dr. and Mrs. Ivar Highberg.

Dr. Highberg is head of the Engineering Department at the Naval Weapons Center, while Dr. Robert Berry is a consultant in the Avionics Division of the Weapons Development Department.

Dr. Kristin Berry's study toward a Ph.D. in zoology was in the field

1960, being chosen class valedictorian. She also was awarded an AAUW fellowship and received Bank of America awards in science and math at both the local and district level in her senior year at Burroughs High.

Dr. Kristin Berry attended Occidental College and was graduated from Stanford University with a BA degree in biology in 1964—a year after her marriage to Dr. Robert Berry, who was then attending Stanford on a Bu-Weps Fellowship.

Following her graduation from Stanford, she was employed as an information specialist in the Center's Technical Library and also worked as a biologist for a group that later was transferred to the Naval Undersea Warfare Center in San Diego.

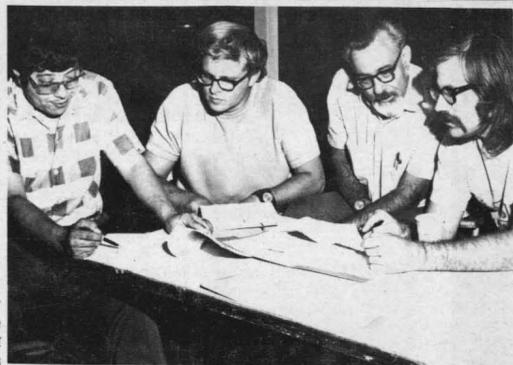
Post-graduate studies at UCLA followed in 1967, and she received a Master's degree in animal behavior in 1968 prior to embarking on studies which led to her Ph.D. at UC, Berkeley.

Navy Exchange, Annex Closed For Inventory

The Navy Exchange—both the main retail store and annex—will be closed all day both today and tomorrow, according to a reminder issued earlier this week by Lt. H. D. Bennett, Navy Exchange officer.

The closure is necessary in order to permit inventory to be taken today prior to re-stocking of the shelves tomorrow with a wider selection of merchandise.

When the Navy Exchange re-opens for business on Monday, it will be in operation as a branch of the Port Hueneme Navy Exchange—a changeover that will mean a larger volume and better selection of sales items.



"PLAZA SUITE" HEADS CONFER—Directors of the Community Light Opera and Theater Association summer production, "Plaza Suite," met recently to confer on technical problems. They are, (l-r.): Loren Russakov, director of Act II; John Woodridge, CLOTA liaison board member; Ralph Vuono, director of Act III, and Herb Childers, production director. Casting was completed this week on the Neil Simon comedy, which is to be presented Aug. 4, 5, 9, 11 and 12 at the Burroughs High School Lecture Center. Missing from the photo is Art (Sandy) Schaper, who will direct Act I.

'Plaza Suite' Cast Chosen; Neil Simon Comedy Slated in August

"Plaza Suite," a comedy in three acts, written by Neil Simon, has been scheduled for presentation Aug. 4, 5, 9, 11 and 12 at the Burroughs High School Lecture Center by the Community Light Opera and Theater Association (CLOTA).

The three directors of the show have chosen the members of their casts and rehearsals are currently under way.

"Plaza Suite" is unusual in that each of the three acts is a vignette complete in itself. Because of the play's structure, three different directors have been chosen—one for each act. They are Art Schaper, who will direct Act I, Loren Russakov, Act II, and Ralph Vuono, in charge of Act III. Herb Childers is the supervising director in charge of the overall production. Act I is a segment concerning a married couple on the verge of divorce. Sam, played by Leo Barglowski, is aware of the passing years and has turned to his young secretary, portrayed by Camille Menz, for solace. His wife, Karen, played by Elizabeth Babock, doesn't quite know how to react to the situation. Personnel of the Plaza Hotel are played by Randy Eash and Douglas Allen. Deanna Lotew will act as Schaper's assistant director.

In Act II, Bob Pinney will play a famous Hollywood producer in a fast-moving change of pace. He devotes an entire afternoon to Muriel, his old high school sweetheart (played by Suzanne Koerschner) in an attempt to rekindle the spark. Elena Vitale is the assistant director for Act II.

Action in the third act revolves around a bride who has locked herself in the bathroom on her wedding day and her father and mother's frustration at their inability to get her to come out.

Gail Falkenberg and Jack Lindsey portray the couple, Norma and Roy, while the reluctant bride is played by Nancy Etheredge. Gary Grafel is Borden, the bridegroom. Judy Vuono is the assistant director for this act.

Others involved in the play are Jim Rosolanka, set designer and technical director, and John Woodridge, who is the CLOTA board liaison man.

A mid-week performance date, Aug. 9, has been scheduled for this production, in addition to the regular Friday and Saturday evening dates. The CLOTA board reasoned that persons who leave town during the summer weekends might take advantage of this opportunity to also see "Plaza Suite."

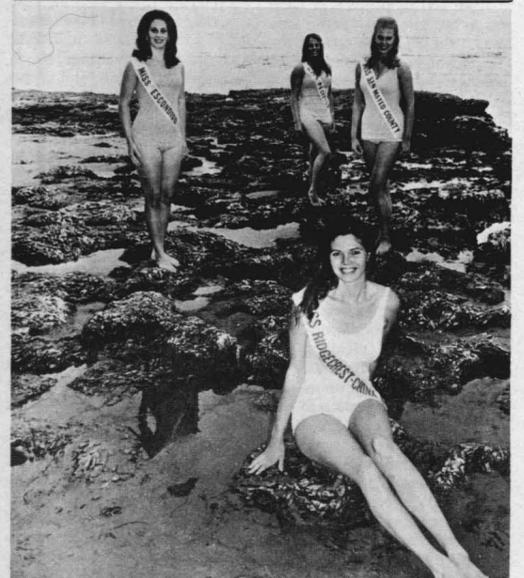


Dr. Kristin Berry

of population biology, and her thesis was entitled "Ecology and Social Behavior of the Chuck-walla."

At the present time, she is working with Dr. G. W. Leonard, head of the Propulsion Development Department, on a Coso Environmental Impact Project, and also has a three year contract with the California Division of Highways that involves the relocation of desert tortoises as freeways are being developed.

A product of local schools since enrolling as a kindergartner when her family moved here in 1947, Dr. Kristin Highberg won scholastic distinction as a member of the Burroughs High School Class of



COMPETES TONIGHT—Miss Ridgecrest-China Lake, Virginia Lee Keyte (in foreground) will compete tonight in the swimsuit and evening gown division of the Miss California Pageant at Santa Cruz. Three of Miss Keyte's competitors (shown in background) in addition to others who will view in tonight's semi-finals are (l-r) Denise Lucille Carver of Escondido, Ann Marie Daly of Pacifica, and Lillian Diane Wagner, of San Mateo. Local residents will be able to see Miss Ridgecrest-China Lake on their TV screens tomorrow night at 9:30 on Station KTLA (Channel 5).

SHOWBOAT

MOVIE RATINGS
The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.

(G) - ALL AGES ADMITTED
General Audiences

(PG) - ALL AGES ADMITTED
Parental Guidance Suggested

(R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian

FRI. "PIED PIPER" (90 Min.)
Donovan, Donald Pleasance
(Fantasy) Delightful, updated version of the famed story of the savior of the wee town of Hamelin who tricked with all the children and drew away the rats. Donovan sings some lulling songs in this Disney-like tale. (G)

SAT. "TEXAS LONGHORN" (17 Min.)
24 June

—MATINEE—

"INSPECTOR CLOUSEAU" (95 Min.)
Alan Arkin

—EVENING—

"CARRY ON CAMPING" (89 Min.)
Sidney James, Kenneth Williams

(Comedy) The two fellows decided to spend their camping holiday at a nudist camp area, but they had to trick their girlfriends into going there. Add some hippies and pretty finishing school campers and the birds & bees fun begins! (R)

"FISHERMAN'S FALL" (17 Min.)
SUN. & MON. 25-26 June

"Z.P.G." (95 Min.)
Oliver Reed, Geraldine Chaplin

(Science-Fiction) Technological society in the not too distant future deals with pollution and overpopulation in a radical manner. A rebellious couple strike a blow for humanity by having a child. Engrossing and unusual. (PG)

"SWINGING BRAZIL" (18 Min.)
TUES. & WED. 27-28 June

"THE TEN COMMANDMENTS" (220 Min.)
Charlton Heston, Yul Brynner

(Historical Drama) The famed Cecil B. DeMille classic returns to tell of the life of Moses from his fall as general of the armies and banishment to the burning desert to his glorious deliverance of his people. Every minute a spectacular treat, every second an interesting bit of drama or action. (G)

NO SHORT SUBJECTS

THURS. & FR. 29-30 June

"THEY CALL ME TRINITY" (111 Min.)
Terence Hill, Bud Spencer

(Western-Comedy) Ripping, hilarious story has Terence plodding into a small town where brother Bud has just connived folks into installing him as sheriff. The two even convince the Mormons to fight the bad guys. A bundle of fun! (G)

"TENNIS RACQUET" (7 Min.)

YOUTH CENTER MOVIES

The Youth Center-sponsored movies for next week are as follows: Tuesday, June 27 — "Three Caballeros," "Disney Parade No. 2," and "The Wetback Hound."

Wednesday, June 28 — "Shaggy Dog," and "Saludos, Amigos."

Thursday, June 29 — "Festival of Folk Heros," and "The Horse With the Flying Tail."

Admission is free to Youth Center members whose dues are paid on a yearly basis. Admission is 25 cents to all others.

The movies begin at 1 p.m. in the Center Theater.

Employee..

(Continued from Page 7)

Son Jerry is a partner in an air conditioner and refrigeration shop in Houston, Tex., and the Knox's youngest son, Mike, who was graduated from Burroughs High School this month, has taken a summer job with his older brother. "Shirley and I really like it here," C. B. said, referring to China Lake's proximity to vacation sites and outdoor recreation areas. "We go every chance we get," he added.

From _____

TO _____

PLACE STAMP HERE



Naval Weapons Center
China Lake
California
Vol. XXVII No. 25

NWC Employees Commended for Their Part In Emergency Action Program in Support of Fleet



NWC SENIOR PERSONNEL ADDRESSED—Rear Adm. W. J. Moran, Commander of the Naval Weapons Center (at microphone), led off an informative meeting for senior personnel that was held Tuesday morning for the purpose of reporting Navywide trends that will effect local activities, as well as to pass along congratulations that have been received regarding NWC's contribution to the emergency reaction programs in support of the Fleet during the first six months of 1972. The presentation was shared by H. G. Wilson, NWC Technical Director, and Dr. W. B. Laberge, Deputy Technical Director (shown seated at right). —Photo by PH3D. W. Yeatts

Message Conveyed During Senior Personnel Meeting

A concise film review about the emergency reaction programs that have been undertaken here since this past January in support of the Fleet, coupled with an assessment of trends that are shaping up Navywide and their effect on local activities was presented Tuesday morning during a meeting of NWC senior personnel held at the Center theater.

The overview was presented in comments given by Rear Adm. W. J. Moran, Commander of the Naval Weapons Center; H. G. Wilson, Technical Director, and Dr. W. B. Laberge, Deputy Technical Director.

The opportunity also was taken to introduce two new arrivals among top ranking military officers at NWC to senior personnel in attendance at the meeting. They were Capt. D. W. Alderton, NWC Deputy Commander, and Capt. Thomas C. Wimberly, NWC Technical Officer.

"It's good to be back" Capt. Alderton said as he noted that the kinds of things he had learned during a previous two year assignment here had helped him in his Naval career. "Here there is talent, knowledge and dedication. There isn't anything that can't be accomplished. I'm glad to be back," the new NWC Deputy Commander commented in remarks acknowledging his introduction.

Capt. Wimberly, who reported that he is well aware of the "out-

Antenna Is Key to Good TV Reception

(Editor's note: Because television plays such a major role in this area as a medium for both information and entertainment, this article outlining some of the causes of poor reception and explaining steps that can be taken to remedy this problem has been prepared by Jim Rieger, an electrical engineer in the Telemetry Branch of the Engineering Department's Product Design Division, who acts as an advisor on television to the China Lake-Ridgecrest area by means of

boosters and translators. In addition, three stereo FM stations are brought into the Valley through translators and several other FM radio stations are received directly. Although all of the local transmitters are actually visible from most locations in the Indian Wells Valley, quality signals require the use of an external antenna. This is because the translator outputs must be kept low enough to prevent interference with other systems in nearby towns and (in the case of the boosters) to prevent them from receiving their own signals and creating feedback. In this article, the first of two on

the subject, some useful information is presented on optimizing VHF reception, along with photos showing bad examples of antenna installations.

To start out with, for good TV reception a good quality antenna in good condition is required. Antennas are generally sold with statements such as "usable up to

(Continued on Page 3)

Money Problems Loom On China Lake School Horizon

If information brought out during this past Monday night's meeting of the China Lake Elementary School District board of trustees is any indication, one thing local school officials can anticipate during the coming year is monetary problems.

Last week, Dr. Sol Spears, who will take over the duties of district superintendent on July 1, reported that the U.S. House of Representatives approved a bill which, if also passed by the Senate and signed by President Nixon, will eliminate approximately \$200,000 of the China Lake School District's anticipated income for the coming year. Grant Pinney, the district's superintendent for business, and possibly one board member will travel to Washington, D. C., next week with representatives of other federally impacted school districts in the hope that something can be done to revise this bill in the U.S. Senate and thereby avoid such a drastic cut in local school funds. In addition, it also was learned in a report presented by Pinney that the district was forced during the past year to dip into its reserve fund by an unusually high amount. (Continued on Page 3)



TWO PROBLEMS both of which will serve to reduce the quality of television reception are illustrated above. Two antennas on a single mast should be mounted at least 5 ft. apart and, in order to prevent lower channel distortion, a television antenna should be raised at least 10 ft. above the roof line of a home, apartment or other building.

June 23, 1972

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RETARDED KIDS HELPED—The time and effort devoted by Bette Jacks (at left) and her ballet students, who were featured in a concert ballet program on Sunday, June 18, at the Center theater, resulted in box office proceeds of \$185 that were turned over to the Indian Wells Valley Council for Retarded Children. The total included a \$50 donation by Terri Jacks (center), a member of the American Guild of Musical Artists, who contributed her performance fee. A certificate of appreciation was presented to Mrs. Jacks and her daughter by Doris Hammer, president of the Council for Retarded Children, who accepted the check on behalf of the local organization. The floral bouquet held by Mrs. Jacks was presented to her by her students following their performance.

Applications Being Sought For Marine Corps Devil Pup Program

Applications are now being taken from boys 14 through 17 years of age who are interested in participating this summer in the expense-free Marine Corps Devil Pups program. Those selected from this area will have the opportunity of spending 10 days (July 26 to Aug. 4) at Camp Pendleton (near Oceanside, Calif.) where they will both participate in and observe Marine Corps training activities.

Local youths chosen for the Devil Pup program will take part in conditioning exercises and marches, learn unarmed self-defense and first aid, and enjoy swimming, beach parties and movies. Interested persons can arrange for an interview that will be conducted in early July by Col. Burke West, USMC Reserve, by writing to Molly McKinney, 328 Gold Canyon Dr., Ridgcrest, or phoning her at 375-5334.

PROMOTIONAL OPPORTUNITIES

Applications for positions listed in this column will be accepted from current NWC employees and should be filed with the persons named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment Division, Code 452, Extension 2849. Current applications (SF-77) or Standard Form 172 should be submitted bringing your work history up to date if one has not been submitted within the last 6 months. The fact that positions are advertised in this column does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and most recent previous supervisor. Selection shall be made without discrimination for any nonmerit reason.

The Naval Weapons Center, China Lake, Calif., announces a Competitive Promotion Examination for Test Mechanic (Experimental Ordnance Equipment) Foreman, WS-6605-10, Announcement No. NWC-72-7. Applicants must file card NAVEXOS-4155A, Standard Form 172, and Supplement Wage Grade Supervisory Information Sheet with the Special Examiner, Room 101, Code 452, China Lake, Calif., to be received or postmarked by July 3, 1972. Forms may be obtained at the Personnel Bldg., Room 100, China Lake, Calif.

Laborer (Heavy), WG-3502-3, JD No. 155-14, Code 5713 (2 vacancies)—Aids in clean-up, maintenance, preparation and operation of various tracking and photographic equipment. Will assist test range trackers or technicians in all phases of test operations. Performs maintenance work on buildings and grounds, loads, unloads various materials and equipment by hand and using various equipment. Minimum Qualification Requirements: Eligibility will be based on appropriate GS announcement. Advancement Potential: Training position for advancement through helper level up to journeyman level test range tracker upon demonstrated ability to perform full range of duties at each level.

Mail and File Clerk, GS-305-4 or 5, PD No. 7255020, Code 5500—Responsible for processing and routing of official and unofficial incoming mail and arranging and controlling of incoming and outgoing messages, classified documents and instructions. Minimum Qualification Requirements: As outlined in CSC Handbook X-118. Job Relevant Criteria: Ability to exercise initiative and judgment in application of pertinent regulations, procedures, and instructions; experience in handling classified material, routing mail, searching files and classifying and cross-referencing files material. Typing ability is desired.

File applications for above with Joan Macintosh, Code 457, Ph. 2371. Clerk-Typist, GS-322-4, PD No. 7017026A11, Code 1703—Position is located in the Directives, Forms & Reports Management Group. Incumbent provides clerical and typing service for the Directives, Forms, Records and Reports Management Programs. Minimum Qualification Requirements: Two years of appropriate experience. Job Relevant Criteria: Accurate typist and familiarity with official correspondence.

Administrative Officer, GS-341-9, 11, or 12, Code 12, PD No. 712020—Incumbent is the administrative officer for Weapons Planning Group. Incumbent participates in management planning, assists in presentations and reports, and is responsible for the administrative services to the department. Minimum Qualification Requirements: GS-9, 3 years general and 2 years specialized; GS-11 and 12, 3 years general and 3 years. Job Relevant Criteria: An understanding of weapons planning project operations is desirable. Ability to understand and communicate effectively with technical project personnel.

File applications for above with Mary Morrison, Code 457, Bldg. 34, Rm. 210, Ph. 2032.

Clerk-Typist, GS-322-3 or 4, PD No. 7140140, Code 4050—This position is located in the Infrared Systems Division. Incumbent will provide secretarial assistance to the program offices complex under the direction of the associate division head. Incumbent types correspondence, technical reports and contractual material relating to the programs and projects within the Infrared Systems Division. Incumbent receives and distributes the mail, makes travel arrangements maintains files and prepares travel claims. Job Relevant Criteria: Demonstrated telephone reception skills and experience typing technical subject matter. Magnetic Tape Selectric Typewriter operation experience is desirable. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

File applications for above with Elizabeth Sodergren, Bldg. 34, Room 206, Phone 2676.

Clerk (Typing), GS-301-3, 4 or 5, PD No. 400003, Code 705—This position is in the Housing Division, Public Works Department. The incumbent will operate and supervise a central control of Housing Office records and statistics, by maintaining files, compiling and reporting statistical data essential to the office function and to community planning. Incumbent must be diplomatic, tactful, and possess a pleasing personality in dealing with the public. Must have analytical and statistical background in order to maintain, operate, and control the Housing Office records and statistics. Must have ability to use typewriter sufficient to complete forms and reports. Initiative is required to accomplish tasks



ARTIST SHOWS WOOD PLAQUE KITS—Don Kumferman, an employee of Code 4566, shows off the line of wood sculpture kits that he has marketed through Diversion Dynamics, a company that produces toys, games and handicraft items. At the right is one of the kits displaying the zebra head, and in the middle is a completed woodcarving from one of the kits. On the left is a girl's head, one of the most popular items. —Photo by PH2 E. R. Ortiz

NWC Engineer Markets Wood Sculpturing Kits for Hobbyists

What began as a course in beginning sculpture at the Desert Campus of Bakersfield College in 1967, has turned into a full-blown enterprise for Don Kumferman, an employee of Code 4566. "Repeat orders are now beginning to come in," Kumferman pointed out, "and it looks like the kit is finally on its way."

The kit includes an 11x14 inch mahogany carving block, available in six different designs which are superimposed on the block in white. The budding artist merely chips away the white and the carving is left. Also included are three carving tools—a V-blade gouge, a large U-blade gouge and a small U-blade gouge—a chain and eye hooks for hanging the finished work.

Kumferman was graduated from the University of Wisconsin with a BA in banking and finance, and then came to Southern California where he attended Northrup Institute of Technology. He was graduated from there with a bachelor's degree in aeronautical engineering.

He came to work here in 1966 as a general engineer. A multi-talented man, Kumferman is the band leader for the Golden State Music Company, a group of local musicians who regularly play engagements at nightspots in the Indian Wells Valley.

He and his wife, Barbara, have two boys, Michael, 14, and Peter, 12. The woodworking kits, which sell for \$4.95, are now available at Eve's Yarn and Hobby Shop in Ridgcrest.

Senior scientists in and outside the Division. Minimum Qualification Requirements: 1 year of general and 1 year of specialized experience. Fire Protection Inspector, GS-081-4, Code 842, PD No. 17274—Inspects buildings and operations in regularly assigned areas, and makes spot inspections throughout the balance of the Center to detect fire hazards and recommends for their elimination; inspects and tests automatic sprinkler systems and aid fire appliances; plans and conducts fire drills, gives lectures, demonstrations and orientations in fire prevention practices; keeps records of all fire prevention equipment and requisition parts and supplies necessary for uninterrupted operation of the fire prevention program; and through a knowledge of the standards and regulations of fire prevention is a technical advisor to all concerned on matters pertaining to fire prevention.

File applications for above with Donna J. Zanes, (Code 457), Bldg. 34, Room 210, Ph. 2393.

Clerk-Typist, GS-322-4, Code 502, PD No. 7250055—This position is in the Systems Analysis Division, Fuze Department. The incumbent provides typing and clerical services to the division head and his staff. Job Relevant Criteria: Ability to do the typing work in the position. Ability to work independently. Ability to deal effectively with

Senior scientists in and outside the Division. Minimum Qualification Requirements: 1 year of general and 1 year of specialized experience. Fire Protection Inspector, GS-081-4, Code 842, PD No. 17274—Inspects buildings and operations in regularly assigned areas, and makes spot inspections throughout the balance of the Center to detect fire hazards and recommends for their elimination; inspects and tests automatic sprinkler systems and aid fire appliances; plans and conducts fire drills, gives lectures, demonstrations and orientations in fire prevention practices; keeps records of all fire prevention equipment and requisition parts and supplies necessary for uninterrupted operation of the fire prevention program; and through a knowledge of the standards and regulations of fire prevention is a technical advisor to all concerned on matters pertaining to fire prevention.

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Winners In Navy Relief Drive Listed

Martin W. Pallas, an employee of Code 70783, last Friday emerged as the grand prize winner of gifts offered to contributors to the 1972 Navy Relief Fund Drive.

Chosen to receive the second award was R. F. Jackson, a resident of Lane Acres, Inyokern, and the third award was won by Chuck Good, a young resident at China Lake.

Pallas has decided to "trade up" to a 1972 Vega GT station wagon and Jackson chose the two 50cc Suzuki mini-trailhopper motorcycles. Young Good was presented with a 19-in. RCA color television set.

"More than \$7,400 was contributed during this year's drive," stated Cmdr. R. C. Good, NAF Aircraft Maintenance Officer and coordinator of the campaign. "This falls about \$700 short of the amount contributed last year, but is still a good sum, nevertheless," the Navy officer commented.

"I would like to thank all those persons who contributed their time and money to make the drive a financial success," he went on, "particularly the departmental keymen and the businessmen and merchants who donated prizes for the weekly awards."

Merchants who took part in the 1972 fund raising effort are: Ken's Karpel Co., Sprouse Reitz Department Store, Hucek's Travel Service, Miss J's Dress Shop, Miss Lilly's Dress Shop, the Miracle of Charm Beauty Salon, Mary Sue's Dress Shop, Senn's Coiffures, Ridgcrest Bowl, Gill Lumber Co., Town & Country Men's Store, Triangle Sport Shop, Ship's Bell Jewelers, K&R Market, Western Auto, Mode O'Day, French's Liquor, the Station Pharmacy, Hamel's Furniture, Rizzardini's Furniture, Sunco Upholstery, Frank's House of Beauty, Baker Brothers Furniture, and Blount's Shoe Store.

"And, of course, the generosity of the Bud Eyre Chevrolet Co., Jack Butler's Desert Sports Cycle Shop, and Loewen's TV aided us greatly," Cmdr. Good added.

In addition, Cmdr. Good pointed out that the sizeable donations from WACOM, the Indian Wells Valley Rug and Needlecraft Club and Beta Sigma Phi were instrumental in attaining the \$7,400 figure.

"I would also like to thank all the Navy Relief volunteer wives and in particular, Mrs. Shirley Stephenson and Chaplain R. E. Osman, who offered much support and help during the fund drive," Cmdr. Good concluded.

Safety Council Plans Award Luncheon Wed.

Plans were announced this week by the Indian Wells Valley Safety Council for an awards luncheon to honor local groups and individuals who have made outstanding contributions to the safety field.

The luncheon, which is open to the public, will be held on Wednesday, June 28, at 11:30 a.m. at the Continental Buffet in Ridgcrest.

Those planning to attend are asked to make reservations by calling Mickey Strang at 446-2261 by Tuesday, June 27.

Employee In the Spotlight



Claude B. Knox

On Dec. 7, 1941, C. B. Knox was sitting on the deck of the battleship USS California, docked at Pearl Harbor, when he noticed billowing smoke above Ford Island.

"Right about then somebody sounded general quarters," he recalled, "and the word was passed that we were under attack."

C. B., who is now head of the Mail, Files and Records Branch, Office Services Division, Command Administration Department, was first loader on a 5-in. gun crew which immediately went into action against the attacking Japanese.

"After the attack on Ford Island, the torpedo planes came in and my ship took two direct hits," he said. "Following that wave of planes, a series of glide bombers roared over and the California took another direct hit on the forward main deck," the 20-year Navy veteran added.

The California was sunk, but C. B. and most of the crew remained on board fighting. "The damage control officer ordered the ship counter-flooded," C. B. said, "and we settled with the main decks above water. We switched to manual control and continued the fight until the Japanese withdrew."

Also sunk at Pearl Harbor on that infamous day, but also later refloated, was the USS West Virginia, a battleship which was to play an important role in C. B.'s naval career.

C. B. entered the Navy following his graduation from Nacogdoches High School, Nacogdoches, Tex., in 1939. "I waited a few months and then joined up as a seaman recruit," he said.

After the USS California was raised and put back into service, C. B. was transferred to the West Virginia, affectionately called the "Wee Vee" by its crew. That was in June, 1942. A member of what was to be called the "Scrap Iron Navy," the Wee Vee cruised the Pacific waters waiting to avenge the embarrassment she suffered at Pearl Harbor. That day came on Oct. 25, 1944.

C. B. was a First Class Bosun's Mate by this time, and the Wee Vee was the flagship, under the command of Capt. H. V. Wiley. The battle of Surigao Straits (north of Leyte Gulf in the Philippine Islands), was to go down in history as one of the largest surface actions of World War II.

"We caught the Japanese in a T-formation, an Admiral's dream," C. B. exclaimed, recalling the great battle. "We had gone to general quarters about sunset and the action broke around 2 a.m. We had been plotting the lead Japanese ship on radar and when the order came to commence firing, we were right on target."

The Wee Vee continued to fire until the order came to cease. It was a grand day for the Scrap Iron Navy. The U.S. forces, under the command of Rear Admiral J. B. Oldendorf, (one of the divisions of the 7th Fleet, under the command of Admiral Thomas O. Kinkaid), lost one destroyer and one PT boat.

C. B. was still aboard the battlewagon when World War II ended. The ship was sailed to Bremerton, Wash., and Knox helped de-commission her.

It was while in port at Bremerton earlier during the war that C. B. met his wife, Shirley and they were married in 1943. "It took a couple of years after the war ended to place the ship in moth balls," C. B. said, "then in 1948 I was transferred to the USS Midway, in the Atlantic Fleet," he continued.

C. B. also served on board the USS Cambria for two years and the USS Pocono, a communications ship, from 1964-66. He was to serve on one other vessel, the USS Braine, prior to his discharge in 1960 with 20 years of service.

"You might say I was a real sea-going sailor," he offered, "but it was a three year tour of duty (1956-59) when I served as a recruiter in Galveston, Tex., that I count as the most interesting time of my career," he added.

During those three years, C. B. and Shirley became enmeshed in the community life of Galveston and the neighboring city of Texas City.

When he left there in 1959, the twin cities declared him one of their most honored citizens.

C. B. was discharged from the Navy in San Diego and joined the Civil Service work force at the Naval Repair Facility there. He worked as a rigger until the base was closed in 1964 and then transferred to China Lake. In 1966 he was made a leadingman in barracks maintenance and in 1969 took over his present duties.

He has earned a couple of Sustained Superior Performances in the brief time he has been at China Lake, one in 1967 and the other in 1970.

"C. B. has an excellent rapport with people, which is vital in a service oriented organization such as ours," said C. M. Ebersberger, head of the Office Services Division. "Rather than use the telephone or write memos, C. B. will pay periodic visits to departments to discuss and solve situations before they become problems. This is a real benefit to an organization of this type," he added.

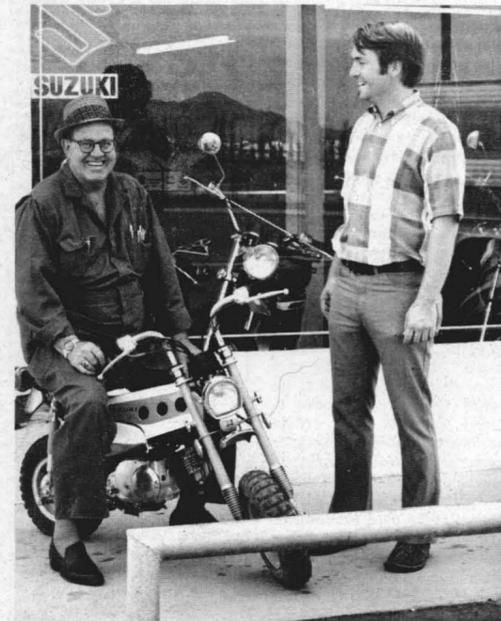
The ex-Navy man spent four years in the China Lake Little League program, 1964-68, helping Bob Nelligan on the job of directors and keeping the ball diamonds in shape. He is a member of the Fleet Reserve Association and the VFW. Shirley has been active with local ceramics clubs since coming to the desert.

"We've got a camper and fishing is our biggest love," C. B. enthused. "I just got back from Lake Crowley (June 17-18) and caught my limit each day," he said.

(Continued on Page 8)



FIRST AWARD WINNER—Martin Pallas, left, accepts the keys to a 1972 Vega GT Sportcoupe, the first award in the 1972 Navy Relief Fund Drive. Pallas, an employee of the NWC Public Works Department, smiles his thanks to Bud Eyre, owner of the company.



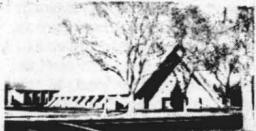
READY AND RARIN' TO GO—R. F. Jackson sits astride one of the two 50cc Suzuki mini-trailhopper motorcycles presented him as the second award winner in the recently concluded Navy Relief campaign. Jack Butler, right, owner of the Desert Sport Cycle Shop, stands by ready to assist Jackson.



MANY HOURS OF ENTERTAINMENT—Roger Loewen, left, owner of Loewen's TV, assists Chuck Good with the RCA color television set young Good was presented as the third award in Navy Relief fund drive.

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake Lake, California
R. Adm. W. J. Moran, USN
NWC Commander
H. G. Wilson
Technical Director
C. E. Van Hagen
Head,
Technical Information Department



DIVINE SERVICES

PROTESTANT
Sunday Worship Service 1000
Sunday School All Ages 0830
Sunday Evening Bible Study 1900
Wednesday Bible Study 1130
Wednesday Teenage Bible Study 0645
Sunday School Classes are held in the Chapel Annexes 1, 2 & 4 (Dorms 5, 6, 8) located opposite the Center Restaurant.
Communion - first Sunday of the month

ROMAN CATHOLIC
MASS
Saturday 1700
Sundays 0700 0830 1115

BLESSED SACRAMENT CHAPEL
MASS
Daily except Saturday 1130
First Friday ONLY 1130 1700
First Saturday ONLY 0830

CONFESSIONS
Saturday 1545 to 1645
Sunday 0800 to 0825

CCD CLASSES
Sunday Kindergarten through 9th grades 1000
Wednesday 7th and 8th grades 1900
As announced 9th through 12th grades

Note: The Chapel Nursery is located in Chapel Annex 1, Room 4, across from the Center Restaurant, and is open without charge for children of parents attending Catholic Mass or Protestant Worship Services.

JEWISH SERVICES
EAST WING - ALL FAITH CHAPEL
Friday 1st and 3rd ONLY
Sabbath Services 2000
Sabbath School 1000 to 1200
UNITARIANS
CHAPEL ANNEX 95
Services 1930



PH1 D.C. Manderscheid, PH2 E. R. Ortiz, PH2 G. L. Taylor, PH3 R. G. Mills, PH3 D. W. Yeatts
Staff Photographers
DEADLINES:
News Stories Tuesday, 4:30 p.m.
Photographs Tuesday, 11:30 a.m.
The Rocketeer receives American Forces Press Service material. All are official U.S. Navy photos, unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NavExos P35, revised July 1956. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense.
Phones 3354, 3355, 2347



By Jack Lindsey
The race in the fast pitch intramural League has tightened up considerably, thanks to a surprise win by the Valley Merchants over Ace TV last Tuesday night. Billy Brown, who has been chosen for the MDISL all-star softball team, held the Ace sluggers down to 6 hits and beat them 4 to 1.

Frank Koons hit a homer in the first stanza, went 2 for 3 in the game, knocked in two runs and scored twice to almost personally put the game on ice. Rick Carle hit a homer in the third to set up the game for Brown. Brown's shutout was spoiled by Frank Carson, a real old-timer, who hit a solo blast in the sixth inning.

Ace TV and Bud Eyre Chevrolet are now tied for the lead with identical records of 6 and 2, while the Valley Merchants are one game back at 5-3.

In the second half of the twin bill last Tuesday evening, Bud Eyre blanked NAF 10-0 in a five-inning game called because of league rules. (If a team is 10 runs ahead at the end of five regulation innings, the game is called). Bert Andresen pitched his second two-hitter in a week, striking out six NAF hitters. Dave Taylor hit a grand-slam home run in the first inning. Teammate Tom Haus also homered later in the game.

Andresen's other gem came against the Valley Merchants on June 13. He struck out 14 Merchants enroute to a 6-0 win.

In other action the past week, NAF beat Texas Instruments, 13-3, and also took A&L Tire, 9-4. That was a funny game as there were 12 hits, all singles. Don Sharp was the winning pitcher and converted first baseman Andy Gilpin took the loss.

Last Monday evening, Bud Eyre whopped Texas Instruments 10-4, as "young" Bobby Kochman notched a victory. Tom Haus, Ron Shiers, Dennis Johnson and Paul Amundson each hit round-trippers.

Team	Won	Lost
The Mulligans	9	3
Devastators	7	5
Symposium	7	5
Code 557	7	5
Code 5563	7	5
NAF	5.5	6.5
Big Spenders	5.5	6.5
Short Knockers	5.5	6.5
Code 551	5	7
Burroughs High	5	7
Nightfighters	4.5	7.5
Transportation	4	8



TENNIS TROPHY RECEIVED—The award won by Lt. Cmdr. Bob Castle (at left) and Jay Taylor (not in photo) for placing second in the doubles competition during the Mojave Desert Inter-Service League's annual tennis tournament held a month ago at Norton Air Force Base in San Bernardino arrived here this week. Shown with Lt. Cmdr. Castle is Jim Smith, captain of the team that represented NWC in the tourney. Other local racket swingers who competed along with Lt. Cmdr. Castle in the tournament singles play were Richard Boyd and Bernie Wasserman. —Photo by PH3 D. W. Yeatts

Farkel Family Wins 10th Straight Game in Fast-Slow Pitch League

The Farkel Family team, which is continuing to dominate the fast-slow pitch baseball scene, nailed down its 10th straight victory last Monday night by sliding past the Lardos, 2-0.

The Stewburners, who are in third place, swept up the Sandblasters, 6-5, and also uncorked the Coors Engineers, 17-8, in other recent play.

It just wasn't the Muthas' week as the RF Devils set fire to them, 11-10, and the Coors Engineers pounded out a 13-8 win.

Huff and Puff as it might, the team going by this name couldn't drag out a win last week in the slow pitch baseball league. The Ice Hockey nine, in fourth place in Division B, skated past them 26-13, while the Saints threw them for an even bigger loss, 27-9.

Central Staff had little better luck against another of its Division

Hunting License Fee Increase Slated By DFG

License fees will be increased July 1, the Department of Fish and Game reminded California hunters this week, and a raft of 1972-73 hunting regulations will go into effect at the same time.

The license fee increase, along with a new schedule of fees for sport fishing, was approved by the State Legislature last year. New fishing fees went into effect Jan. 1.

Hunting fees include: resident junior license, \$2, up from \$1 last year; resident, \$6, up from \$4; non-resident, \$35, up from \$25; resident deer tag, \$3, up from \$2, and non-resident deer tag, \$25 up from \$10. Bear tags, pheasant stamps and duck stamps remain at \$1, \$2 and \$1, respectively.

Hunting licenses, deer tags and bear tags are now available from license agents throughout the state the DFG said.

The fee increase, first in 14 years, was designed to meet operating deficits of the DFG and to provide additional funds for new and expanded programs.

Spotlight On Sports

By Rick Jackson

Today is the last day for sign-ups for the summer recreation program sponsored by NWC Special Services. Such sports as basketball, one-on-one basketball, badminton, ping pong, and handball will be on tap.

A great deal of time and effort has been expended by Special Services personnel in setting up these programs for the enjoyment of persons living in the China Lake area. So far the applications have been lagging. If we, the public, would like to see more programs of this type in the future, we can only insure this by showing our support.

There have been many rumors circulating lately on the subject of the proposed roller rink to be set-up in the Center gymnasium. While no date has yet been set for the beginning of roller skating, the money has been appropriated for this activity and the measurements of the gym have been taken for installation of the hand rails.

These rails will be portable so that they will not interfere with basketball or other games which are also played in the gymnasium.

Applications are now being accepted for the 11th Naval District Golf Tournament. This is a scratch tournament which will be held at the Los Alamitos golf course in Long Beach, July 31 to Aug. 3.

The deadline for applications is July 5. Entry forms may be obtained at the Special Services office, or at the China Lake Club.

Cardinals Take Over First Place In Colt League Baseball Action

Don Gallaher pitched the Cardinals into first place in the Colt League last Monday night as he stopped the Mets on 4 hits and 4 walks, while striking out 9 opposing batters.

The Cardinals stepped out in a hurry as Lloyd Mason hit a double in the first inning with two men on base, driving them both across the plate. In the second inning, Amos Blanche came to bat with two more Cards on base and smacked a triple into left field to give the first place team its third and fourth runs. They were never headed and won the game, 6-3. Al Chieze was the losing pitcher.

In action the preceding week, the Mets had taken over the first place spot by whipping the Cardinals, 6-1. Chieze won that game over Gallaher. Then on June 14, the Cardinals and the Dodgers played to an 8 inning tie, called because of curfew with the score deadlocked 1-1.

The game was recorded as a tie and will not be replayed. Billy Sizemore gave up 2 hits, 5 walks and struck out 13 while Cards' pitcher Gallaher surrendered 5 hits, 2 walks and also struck out 13.

In the only other game played last week, the Mets pounded the Giants, 8-1, behind the pitching of Bob Beecroft. An interesting note, the Giants committed 20 errors in the game.

All local residents are invited to the game. Admission is free and refreshments will be available.

Construction To Start July 1 On School Project

Bids on a \$1½ million school construction program in the China Lake Elementary School District have been opened by officials of the U.S. Department of Health, Education and Welfare.

The low bidder on this project was the Colombo Construction Co. of Bakersfield, with a bid of \$1,519,930 plus a contingency fund of \$51,095 for a total of \$1,571,025.

Construction work is scheduled to start on July 1 and be completed in September, 1973.

For this project, Phase II of a China Lake schools' rehabilitation program, plans call for construction of a library and activity building at each of the schools in the district (with the exception of Murray School where such facilities already exist), the construction of a music building at Murray School, and a school for exceptional children to meet the needs handicapped children in the local area.

HONORED BY SPECIAL SERVICES—Adult leaders in the three youth bowling leagues this past winter season were presented plaques from Special Services recently during a ceremony held at Hall Memorial Lanes. They are (seated, l.-r.): Joyce Zurn, secretary of the Junior-Senior League; Myrtle Snyder, American Junior Bowling Congress chairman for the local area; and Mary Jane Clark, secretary of the Little Giants League. Standing, in the rear is Bob Pfau, secretary of the Bantam League.

Employees Commended...

(Continued from Page 1)
Commander said, as an increased opportunity and felt that any organizational changes should be taken in stride.

Later in the meeting, in answer to a question from the audience, RAdm. Moran commented: "I see clearly a trend in top management of the Navy to look to the laboratories for answers—much more so than was the case a year or two ago."

Noting that there is "high order attention" in Washington to the money shortage, RAdm. Moran stated that this will be reflected locally in numerous visits by officials who will be coming here from the nation's capital seeking information about current programs.

"China Lake is looked on very favorably by R&D people in Washington, who have confidence that they can call here and get the real answer," the NWC Commander stated, adding that he hears repeated expressions of appreciation from top people in Washington about the work that is being done at NWC.

"I'm proud of all you for continuing to generate that kind of reaction in Washington," RAdm. Moran told his audience of NWC senior personnel.

A look at the trends in dollars and manpower was given by Wilson, who pointed out that while an increase in the amount of money allocated for NWC programs is forecast for 1973 (beyond the inflationary factor), the manpower trend will be down.

By just how much, or what areas of manpower will be affected, is uncertain, the NWC Technical Director said.

Some changes in the content of the work to be undertaken here during the next year is foreseen, Wilson continued. The Air Force will develop and produce more air-launched weapons than in the past, while the assignment of defending ships at sea will provide an opportunity for a change to be made in the composition of work at NWC, it was added.

No changes of the magnitude of the consolidation of the Corona laboratory and the transfer of personnel here is foreseen in the

year ahead, the NWC Technical Director said, but some realignment is expected "as we evolve the role of NWC as a lead laboratory for point defense" (something also announced at this meeting).

The term "point defense" is used in reference to the defense of a ship (which is a point target rather than an area distributed target) against attack by aircraft and missiles.

"Trends indicate that we'll be busy, there will be some shift in emphasis and pressure will continue to make adjustments as dollars remain tight," Wilson stated as he summed up the situation for the coming year.

"A lot of you have been asked to work very hard, and those doing the fighting are appreciative of what you've been doing," Dr. Laberge began as he mentioned the reaction he has received from Adm. Isaac C. Kidd, Chief of Naval Material, and others who have been shown the brief film that was prepared to illustrate NWC's part in emergency reaction programs undertaken to aid the Fleet since the first of the year.

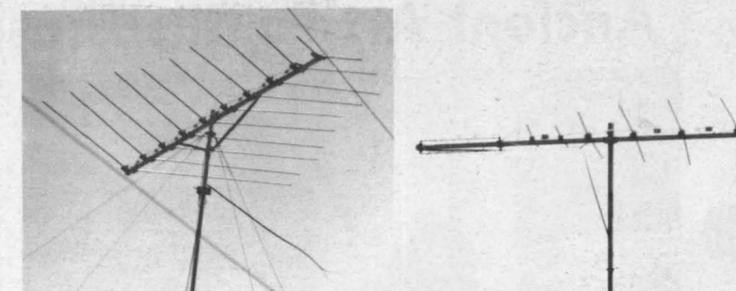
In answer to a question from the audience about the five year forecast for the Naval Weapons Center, Wilson replied that he foresees the ratio of effort between aircraft and ships shifting more to ships, but added that he didn't yet have any real fix on the magnitude or level of this effort.

For his part, Dr. Laberge stated that he visualizes no substantial changes in total workload, while RAdm. Moran predicted: "We'll have a smaller Navy, but a larger share of the Navy work will be done here at China Lake."

Responding to a question about what will be done to maximize in-house resources in order that more work can be accomplished by fewer people, Dr. Laberge stated: "We'll do the best we can and will apply our resources to the major problems rapidly enough to be effective. In the main, we would like to keep the organization about the same. We don't want to reorganize with every new problem, but instead will have to do some organizational concentration."



REPORTS TO NAF—Lt. Truman D. Ware recently reported to NAF as the Airframes and Crew Officer. The Roswell, N. Mex., native arrived from duty with Flight Attack Squadron 4, where he flew OV-10s in the Mekong Delta area of Vietnam. Lt. Ware was graduated from the University of Washington, with a BS degree in Zoology prior to enlisting in the Navy in 1967. He received his wings at Kingsville, Tex., in 1968. He and his wife, Joyce, have two sons, Jason, 2½ years old, and Jarod Anthony, who weighed 7lb. 7½ oz., at birth on June 3, at the NWC Dispensary.



THESE TWO PHOTOS are examples of other shortcomings that were observed in local TV antenna installations. The set up in photo at left is good, but the broken lead-in wire waving in the breeze means that reception can't help but be bad. In the photo at right, both the VHF and UHF antenna are pointing in the same direction. This is a no-no because the signals for these two types of reception originate from two different locations in this area.

TV Antenna Installation Tips Given...

(Continued from Page 1)
100 miles." While useful for comparing one antenna with another, such claims about distances a TV signal can be picked up are unrealistic except under the most ideal circumstances, which are seldom encountered.

For good reception in Ridgecrest, an antenna with a minimum of five "elements" (crossbars) and preferably more is required, while Inyokern area residents should have at least ten elements on their TV antennas. Snowy pictures indicate a larger antenna is needed.

The elements should be tapered in length, with the shortest ones pointed toward the TV signal transmitter. If the elements are not tapered, the antenna is made for a single channel rather than for all VHF channels.

Combination VHF-UHF antennas are useless in Ridgecrest, since the UHF and VHF signals come from two different directions. Channels 2, 4, 5, 7, 9, 11 and 13 are transmitted from a small building on B Mountain (east of China Lake), while the FM booster signals and Channel 55 (and other UHF stations that will be added later) come from Laurel Mountain, located about 10 miles south of Ridgecrest.

An antenna with bent or missing parts, or one with severe corrosion (particularly where the lead-in hooks on) will not perform properly.

As important as the antenna itself is the antenna's location. An antenna located in an attic, for example, usually causes severe distortion (such as ghosting) on the lower channels. To prevent lower channel distortion, the antenna should be a minimum of 10 ft. above the roof line.

In addition, the antenna should be positioned in such a way that there is a clear path between it and the TV signal transmitter. The line should not be blocked by trees or power lines. Trees present an effective block to television signals, especially in the high channels, and more extremely in summer than in winter.

Power and telephone lines, transformers, mercury-vapor street lights and the like cause spark-type interference that is seen as color confetti on color receivers and as large white spots on black and white TV sets. Similar interference is caused by air conditioner motors, power tools and some automobiles.

Guy wires, needed to support the antenna mast, should not run through the antenna itself, or ghosting will result. If more than one antenna is placed on the same

most, there should be at least 5 ft. between them.

Lead-in wire is available in several forms. The most common is the ribbon type, which usually costs less than 5 cents per foot. On ribbon-type lead-in, the electrical signals are not confined to the wires themselves, but in the area surrounding them. For this reason, standoff insulators must be used to carry the wire down the mast, across the roof and down the side of the house.

The TV signal strength is reduced and ghosting is caused if the lead-in wire is brought through a notch filed in an aluminum window or draped across a metal rain gutter.

Ribbon lead-in has a limited lifetime after which the plastic insulating material becomes very brittle, causing the two wires to short together. Because the lead-in is held away from the mast by standoffs, it is subject to buffeting by the wind, so the line should be twisted to provide some springiness. Twisting the line also minimizes pickup of signals by the lead-in itself.

Better lead-in wire for most situations is shielded twinlead, which is available at TV shops in Ridgecrest and Trona and by mail order from most suppliers of electronic equipment. Shielded twinlead can be taped directly to the mast, requires no standoffs, can be fed into the house with no particular precautions, and picks

up no interference on its way. The disadvantage of this type of cable is that it is somewhat larger.

Coaxial cable may be used as a lead-in from the antenna to the TV set if transformers are provided at the antenna and at the set. Coaxial cable is especially useful if a mast-mounted amplifier is used.

If an antenna booster is used, the only place it will do any good is up on the mast. Running a signal through cable causes some loss, and an indoor booster will merely amplify the noise. An antenna-mounted amplifier receives the signal where it is the strongest, and when used properly can bring about a dramatic improvement in picture quality—especially in color. Power for the amplifier is fed backwards through the line from a power supply in the house.

A few other comments: Don't coil excess antenna lead-in behind the set (especially ribbon lead-in) since this reduces the signal and can introduce ghosts.

Don't use a two-set antenna coupler if your signal is already marginal—no more than half (and often considerably less) of the signal will go to the set, turned on or not.

Don't hook up two or more sets without using a multi-set coupler.

Don't hook a new television set and a very old one together on the same antenna—the old one will talk to the new one, causing herringbone interference.

State officials are aware of the problem and are considering it," Dr. Spears noted but without much optimism that any remedial steps will be taken.

All of the foregoing will have a bearing on action that is coming up in regard to the 1972-73 school year budget.

A special meeting of the China Lake School District board of trustees will be held at 7 p.m. Monday at the Murray School library for the purpose of adopting the tentative budget and employing classified personnel. The budget will be published in mid-July and is scheduled for final adoption prior to Aug. 8.

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Schools Face Money Problem...

(Continued from Page 1)
In his report on reserve spending, Pinney noted that the total of \$535,000 last July had been reduced to \$128,425 at the present time. One of the biggest items of reserve spending was \$100,000 that went to pay for a teacher salary increase.

When the district's board of trustees took this action, they did so in anticipation of receiving additional money from the State of California which failed to materialize.

In this same general vein—money problems—an updated report on the State Teacher Retirement Law revealed that the China Lake Elementary School District is headed for trouble in this area also.

According to Dr. Spears, the district is required to contribute a certain amount of money each year for teacher retirement, and the State of California is then supposed to provide this and other districts with money that equalizes the amount that goes into the retirement fund.

Money for each school district's share of its contribution to the

Ancient Art Fulfills Present Day Need



PRECISION WORK—Thomas Griffith, a glassblower in Code 60, heats glass tubing to form the second section of an expansion bellows. The section to the right of the burner has already been formed. Expansion bellows are used for thermal and shock isolators in glass apparatus. Griffith, who learned his glassblowing trade just after World War II, is a master of this ancient art.

Story By
Dr. Arnold Adicoff

RIGHT—Tom Griffith blows the face of a Christmas clown. Occasionally, the glass master is called upon to perform his ancient art at children's shows and benefits. **BELOW**—Griffith prepares the inner tube of an AGILE dewar detector package. Glass technology has been associated with most of the major scientific advances in history and provides transparent, unreactive and impervious media for performing various experiments.



ABOVE, RIGHT—Griffith is seen working on another inner part of an AGILE detector package. Here the metal leads are being set in the glass to make the electrical connections for the detector, which will be mounted inside the glass. **RIGHT**—The Code 60 glassblower is seen working with one of the basic forms of many blown glass art forms. This is the body of a swan.

Photos By
PH2 Glen L. Taylor

Glassblower Brings Old Skill To Modern Missile Technology

Glass making is one of the arts that has fascinated man through the times of antiquity.

The oldest known manufactured glass object was discovered in Asia Minor and has been dated at about 7000 B.C. The art was probably developed in Asia and introduced to Asia Minor and later into Egypt.

The Egyptians expanded and diversified the art of glass manufacture with their knowledge of metals and the oxides of metals which are often used to color glass. Early methods of manufacture involved the building of glass objects by the careful addition of molten glass to glass on a rod. Later objects were manufactured by pressing glass into molds.

The art of blowing glass into various shapes was developed by the Phoenicians at about 300 B.C. From that point in time to the present day, glass has become a dominant feature of society and social development.

From the 17th century to the present time glass blowing has been an indispensable part of science and scientific development. The glass technology has been associated with most of the major scientific advances in

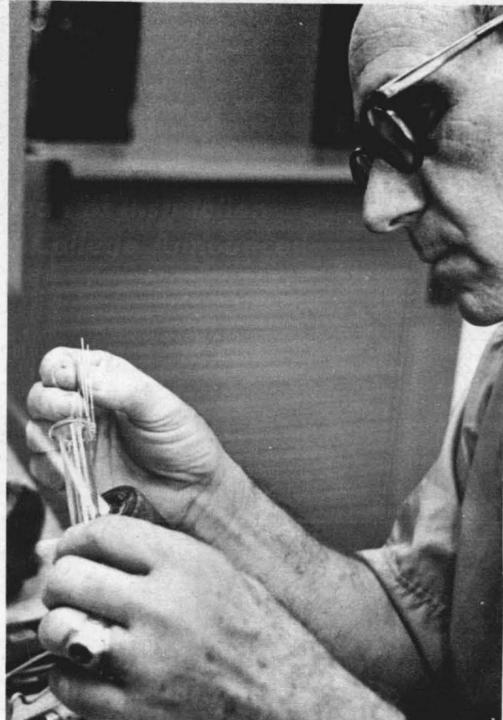
history and provides transparent, unreactive and impervious media for performing various experiments.

The art of glass blowing is essential to the light bulb, the X-ray tube, television, and the atomic and hydrogen bomb developments.

Today, at NWC, Thomas Griffith uses his skills in the ancient art to produce objects essential to research at the Naval Weapons Center and to the development of the new weapons systems. At the heart of some of the new weapons systems are detectors that have to be built into vacuum tube and vacuum thermos flasks by careful and delicate glass blowing techniques.

Griffith, recently employed by the Center, brings here a wealth of experiences acquired at the University of California at Santa Barbara, the Santa Barbara General Motors Research Laboratory, the P. R. Mallory Company, the DuPont Company Savannah Plant, and the Hanford Atomic Energy Plant.

Employees of the Center will find in Griffith a resourceful individual ready and willing to help them solve their technical problems involving glass technology.



Summer School Begins Monday at China Lake

The summer school program of the China Lake Elementary School District will begin Monday at four schools — Vieweg, Richmond, Pierce and Murray, with additional Special Education classes to be held at the Groves School huts. The summer program will run on week days from June 26 to July 28.

The program has been divided into two separate student groups: Primary, for those students who will attend first through third grades in the fall, and elective, for children in the fourth through eighth grades. Enrollment for the primary school is expected to top 775 students, including pupils from Trona. Primary sessions will be held at Vieweg, Richmond and Pierce Schools only. Andy Petach, summer program director for the district, stated that 37 teachers will be employed in the primary program.

"There will be 52 teachers in the elective program to instruct an expected 1,350 students, at Murray School," Petach said. "In addition, approximately 77 teachers' aides will assist with the pupils in both programs," he added. Primary classes will be composed of a general primary curriculum, while the electives include many craft, skill and field trip-type classes.

"The most popular classes thus far are woodshop for boys and cooking for the girls," said Petach. The hours of study in the elective program are from 7:30 a.m. to 12:30 p.m., Monday through Friday, and from 8 a.m. to noon in the primary program. July 4 will be a holiday.

Late enrollees for the elective program have until next Wednesday to sign up. Children must go to Room 41 on the Murray School campus with one parent or adult guardian between 7:30 and 10 a.m. on either Monday, Tuesday or Wednesday, in order to enroll in the summer program's elective division.

"Although many classes are already closed in this division, every effort will be made to accommodate late enrollees," Petach said, referring to the elective program.

Late enrollees for the primary program are asked to report to the nearest neighborhood elementary school. For primary students living in the Groves School area, a school bus will stop at the Groves School at 7:45 a.m. during the summer session to take students to Vieweg School.

Opportunities...

(Continued from Page 2)
Minimum Qualification Requirements: 3 1/2 years of experience in fire fighting, fire prevention and operations of fire apparatus and equipment.

Security Clerk, GS-301-5, PD No. 584007, Code 8411—This position is located within the Internal Security Branch, Code 8411, Security Operations Division, Security Department. This position consists of four major functions: Review of investigations prior to initiation and upon receipt of the results; preparation and maintenance of Security records and files; advisement and assistance to all Departments re Security requirements for appointments, clearances, investigations and related actions; compiling data for use of security specialists and/or screening and review boards for the district, stated that 37 teachers will be employed in the primary program.

File above applications with Pat Gaunt, Bldg. 34, Room 262, Phone 2723.

Secretary (Typing), GS-318-5, 1 Vacancy, PD No. 725065, Code 454—This position is located in the Applied Research and Processing Division of the Propulsion Development Department. Incumbent provides typing and clerical services to the division head and his staff. Incumbent types correspondence, letters, memos, technical reports and studies, and maintains standard files. Duties include: typing, timekeeping, travel orders, mail collection and distribution. Job Relevant Criteria: Must be a qualified typist; experience with the IBM Magnetic Tape Electric Typewriter desirable; knowledge of standard Naval correspondence format; ability to deal effectively with people, and demonstrated general secretarial proficiency desirable. Minimum Qualification Requirements: Two and one-half years general experience and six months specialized experience for a total of three years experience as defined in CSC Handbook X-118.

File applications for above with Linda Grossman, Bldg. 34, Room 264, Ph. 2925.
Budget Analyst, GS-540-85, PD No. 728015, Code 3021—Position is located in AGILE Development Division. Incumbent analyzes Center and contractor reports on financial and manpower data for trends and prepares presentations highlighting the basic data and the trends. Incumbent also monitors cost and encumbrance data runs for erroneous charges and takes corrective action. Also determines requirements for and prepares originating documentation for work requests, stubs, changes to job order structure and DD7300-6's. Minimum Qualification Requirements: As outlined in X-118. Job Relevant Criteria: Background in budgetary or accounting methods and procedures at NWC, with ability to analyze and generalize from available data. Must be able to work with people and gain their cooperation. Preference will be given to holders of bachelor's degrees. File applications with Dora Childers, Code 657, Rm. 212, Ph. 2514.



AUCTIONEER AT WORK—Tex Hammond, a professional auctioneer from the Defense Surplus Sales Office, San Diego, prepares to "knock down" another bid during the auction of surplus government property held last week at the Community Center. Billy Joe Driggs and Pete Donohue (l-r), employees of Code 2597 on the Center, sit at the table recording sales and amounts. The auction brought in more than \$15,000 on 163 different items.

Auction Sale of Surplus Gov't Property Conducted at NWC Brings in \$15,281

An auction sale of surplus government property was held last week at the Community Center, attended by 75 bidders, who came from within the local area and as far away as Tucson, Ariz.

The sale brought in \$15,281 for 163 different items that were sold. Bidding was competitive as Tex Hammond, a professional auctioneer from the Defense Surplus Sales Office in San Diego, kept things moving at a rapid pace.

Hottest item of the day was a 75 kilowatt generator set, finally knocked down for \$850 to William J. Norton, president of General Propulsion Co., Huntington Beach, Calif. A 20 kilowatt generator went for \$800. It was purchased by Jim Rajacich, vice-president of Bar-

stow Truck Parts & Equipment Co. Among other out-of-town businessmen who attended the meeting were R. W. Wilson, president of Wilson Enterprises, Lancaster, who is a frequent bidder at government auctions, and representatives from Jet Sales, Sales, Inc., Tucson, Ariz.

Two other large items went to unidentified bidders—a 5 ton, 6x6 International Harvester truck was sold for \$600, and a 1972 Volkswagen sedan body, complete with new price sticker, brought in \$250.

Most of the spirited bidding was on the generator sets and air compressors. Only four items were passed without being bid. They were two shelters and a Ford

Bronco body, in sad condition, and two deep fat fryers.

Gordon Peacock, head of the Property Disposal Branch, Supply Department, stated that although attendance was less than in previous auctions of this type, the over-all proceeds are slightly higher than in the past. Previously, more than 200 bidders have registered to compete for the purchase of surplus items, Peacock stated, adding that in excess of 250 persons would generally inspect the property to be auctioned off.

"While fewer than 200 persons inspected the property prior to last week's auction, I feel that this particular sale was successful," Peacock added.

Selection of Dean of Instruction At Cerro Coso College Announced

Selection of a dean of instruction for the soon-to-be constructed Cerro Coso College in Ridgecrest, and approval of the Kern Community College District's tentative budget for the 1972-73 school year highlighted last week's meeting of the district's board of trustees.

Chosen to fill the key position of dean of instruction at the local college was Dr. Richard S. Meyers, who has been serving as coordinator of media instruction at Grossmont College in El Cajon, Calif.

Dr. Meyers, a graduate of DePaul University in Chicago, received his master's degree in administration at the University of Southern California, and last year was

awarded his doctorate from USC, where he majored in instructional technology.

The coming year's tentative budget for the Kern Community College District totals \$11,714,494—up \$798,616 over the 1971-72 budget of \$10,915,878.

The board is scheduled to adopt the publication budget on July 20 and will hold a public hearing Aug. 3 prior to adoption of the final budget.



BRIEF STAY—A two week tour of active duty at the Naval Air Facility Dispensary will end today for HM2 Dorothy L. Middleton, a Naval Reservist who was assigned here from San Diego. HM2 Middleton joined the Navy in 1966 and, after four years of active duty, transferred to the Navy Reserve. She is now required to spend two weeks per year on active duty. In the fall she plans to move to Michigan and enroll as a student at Northern Michigan University.

Aetna Insurance Agent Visit Slated

Howard Keenan, the Aetna Insurance representative, will be at the Community Center on Tuesday, from 9 a.m. until 4 p.m., and next Wednesday, June 28, from 9 a.m. until 3 p.m.

Error Made In Band Award Photo Caption

A mistake was made in the photo caption regarding Burroughs High School band awards in the Friday, June 16, issue of The ROCKETEER.

The information received by The ROCKETEER which stated that Burroughs had never before received a 1st Division rating at the Music Festival was incorrect. Other sources have revealed that the band did indeed win a 1st Division rating in 1968, under then musical director Earl Sherburn. The ROCKETEER regrets the error.



SEABEES BEGIN NEXT STAGE OF DISPENSARY PATIO—Four local Seabees (l. to r.) CE2 Patrick H. McMurphy, BU3 James L. Peterson, CE1 Albert P. Koharchick and CMC Philip M. Nelson, who are presently serving two weeks of active reserve duty, have undertaken the next step in the Oasis Garden Club's project of developing a patio area at the Dispensary. Work began last week on foundations for pouring cement and the installation of flower beds between Wards 1 and 2 that will provide a rest area for hospitalized patients. The Seabee Reserves also are installing an automatic bubbler system for watering the area. All materials used were provided by the Navy Self-Help program. Landscaping will follow this fall and continuing maintenance will be provided by work parties from the local Garden Club, whose members drew up plans for the long term project in March, 1970. —Photo by PH3 D. W. Yeatts