



TO APPEAR AT CLUB CHAPARRAL—The Closer Thais, an instrumental group from Bangkok, in Northern Thailand, will appear at the Club Chaparral Friday and Saturday, July 25 and 26, beginning at 9 p.m. and lasting till 1:30 a.m. The group began two years ago by playing small clubs in Bangkok before someone from Korat Air Base in Bangkok heard them and signed them up to play at the military club there. An Air Force Captain brought them to this country and they now play for dances, private parties and, of course, military clubs. With the exception of a few Thai songs, the boys sing in English, a language they painstakingly learned.

Plasma Cutting Tool

(Continued from Page 7)

mounted in a Linde Shape Cutting Machine, which consists of a dual carriage, a photocell tracer, and an oxy-acetylene or oxy-fuel gas cutting machine in addition to the plasma unit.

Movement of the dual carriages is controlled by a photocell tracer which scans and follows an outline drawing or the edge of a silhouette on the template table, without physical contact, and without the shifting caused by a guide wheel. Optical tracing eliminates the need for plastic, wood or hardboard templates, which are expensive to prepare, replace and store. Simple silhouettes or pencil or ink line drawings on paper are used. These are economical to prepare and can be easily stored or filed.

The photocell tracer can negotiate 90-degree turns in 1/16-in. radius at speeds up to 15-inches per minute and 90-degree turns with 3/32-in. radius at speeds up to 30-inches per minute.

Since ordinary light or bright sunlight will not interfere with the operation of the tracer, the unit may be located anywhere without regard for lighting conditions.

Fat Albert Lost Local Residents Invited To Search

Fat Albert is lost! Those interested in joining in the search for Fat Albert should come to Sandquist Spa at 7:30 p.m. Wednesday, July 30. Activities will include a bonified chaotic search for Fat Albert. The finder will be rewarded.

There will be volleyball, marshmallow roast, pop and beer drinking, and dancing to both taped and live music.

It's a "grub" search and dance, so dig out your old levis, sweatshirt and tennies, and come on out and join the fun.

All local residents above the age of 18, single or married, are cordially invited. For further information, contact Don Seafeld at Ext. 72092, or 71340. This function is sponsored by the Summer Activities Group.

Another aspect of the photocell tracer unit is the automatic shut-off located on the top of the unit which turns off all torches in operation should the tracer lose the line. This prevents ruining expensive plate.

Use of the Plasma Cutting unit has in the past saved anywhere from a few minutes to a few days in the cutting of various jobs, depending on the size of the job and the metal involved. This represents a very large savings in cost during difficult operations.

The shape-cutting machine has been in use for approximately one year and is located in the southwest corner of the welding shop.

July Housing Levels Listed

JUNE 30, 1969—LEVELS REACHED	
Type—Housing Priority Group	Hiral Date
Panamint (4)—None	
Panamint (3)—None	
JOC (2)—None	
MOQ (3)—None	
Hill Duplex (2)—None	
Hill Duplex (2)—None	
Wasp Circle Duplex (3)—None	
Joshua (4)—None	
Yucca (4)—None	
Tamarisk (4)—None	
Juniper (3)—None	
Old Duplex (3)—None	
Old Duplex (2)—SD	9-2-59
Old Duplex (2) (LBP)—None	
Normac Duplex (3)—None	
Normac Duplex (2)—None	
Wherry (4)—None	
Wherry (3)—None	
Wherry (2)—None	
Normac (3)—None	
Normac (2)—None	
Normac (1)—SK	5-9-69
Letourneau (2)—SK	5-9-69
Hawthorne (4)—None	
Hawthorne (3)—CH	2-12-68
Hawthorne (2)—None	
Hawthorne (1)—None	
Apartment (3)—None	
Apartment (2)—None	
Apartment (1)—None	
Apartment (0)—None	
Motel (1)—None	
Motel (0)—None	

Effective August 2, 1969, new telephone numbers have been assigned for Emergency calls for service in the Base housing area. The new numbers are:
 FIRE—466-3333
 POLICE—466-2280
 MEDICAL—466-3333

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 MPA (Motion Picture Association of America) ratings. (The Parents' Magazine ratings will eventually be superceded completely by the MPA 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 JULY 25
"PENDULUM" (102 Min.)
 George Peppard, Jean Seberg
 7:30 P.M.
 (Mystery) Hard-core police captain gets an unanticipated look at both sides of the civil liberties question when his unfaithful wife is murdered and he is put under suspicion. *(M) *(Adult)
 Short: "Hareway to the Stars" (7 Min.)

SATURDAY JULY 26
—MATINEE—
"MAGIC SWORD" (80 Min.)
 Gary Lockwood
 1:00 P.M.
 Short: "Transylvania" (7 Min.)
 "Trader Tom" (No. 9, 13 Min.)
—EVENING—
"THE VENGEANCE OF SHE" (101 Min.)
 John Richardson, Olinka Berova
 7:30 P.M.
 (Mystery/Drama) Licious Olinka encounters a series of perils as a weird noise in her head strangely directs her towards an unknown destiny. Is she really the reincarnation of an ancient queen? *(A, Y, MC)
 Short: "Duo" (13 Min.)

SUNDAY-MONDAY JULY 27-28
"HEAVEN WITH A GUN" (102 Min.)
 Glenn Ford, Carolyn Jones
 7:30 P.M.
 (Western) The gun-slingin' preacher could send a man to heaven with a Bible or a bullet, and he was in the middle of a water rights war between cattlemen and the sheepherders! *(M) *(A, MY)
 Short: "Surtboard Cat" (7 Min.)
TUESDAY-WEDNESDAY JULY 29-30
"HOOK, LINE & SINKER" (92 Min.)
 Jerry Lewis, Anne Francis, Peter Lawford
 7:30 P.M.
 (Comedy) Dr. Lawford gives Jerry a bad check-up report so old kooky goes to the continent to "live it up" on credit cards against his potential insurance. Discovery of error and cover-up makes this one of his best! *(G)
 Short: "Beef Fore and After" (7 Min.)
 "Salute to a Crusader" (AFMR No. 641, 10 Min.)

THURSDAY-FRIDAY JULY 31-AUGUST 1
"FRAULEIN DOKTOR" (102 Min.)
 Suzy Kendall, Kenneth More
 7:30 P.M.
 (Spy Drama) She was a super-spy, a fabulous actress of many disguises, whose assignment was to kill a British field marshal for the German army. How many men would die for this lady-of-many-faces? *(M) *(Adult)
 Short: "Haired & Hurried" (Roadrunner, 7 Min.)

Radio Operators
 The Corona-Norco Civil Defense amateur radio operators, composed mostly of employees from the Naval Weapons Center took top honors again this year in the nationwide endurance test sponsored by the American Radio Relay League.

The local group has taken honors three times in the last six years. R. E. Munn, (Code 4264), is the radio officer for the Corona-Norco Civil Defense Organization.

The purpose of the event is to test emergency equipment and operating procedures which might be needed in case of a disaster. During the test, the group contacted 47 states, 8 of the Canadian provinces, and worked as far as West Germany. This was their best year for total contacts made.

VX-5 Chiefs Re-enlist



CHIEFS SHIP OVER—At ceremonies recently held at VX-5, Capt. Charles W. Fritz administered reenlistment oaths to two maintenance chiefs. Shipping over for four years each were Aviation Machinist Mate (J) Chief Petty Officer Donald R. Billinger (above); and Aviation Electronics Technician Chief William O. Conner.

Youths Hold Tennis Tournament

A tennis tournament sponsored by the NWC Youth Activities will be held on the Center courts August 2. This tournament is open to both boys and girls, age 8 through 13, who are paid up members of the Youth Center.

Events to be offered are: boys' singles; boys' doubles (draw); girls' singles; girls' doubles (draw); mixed doubles (draw).
 Singles events will be a double elimination, and all doubles events will be single eliminations. At least 15 players must register for each event in order for the event to be held. If enough entries are filed, the singles will be broken into two age divisions, eight to 10 and 11-13.
 Players are advised to wear tennis shoes and white, light clothing, and a hat. Tennis balls will be provided by Special Services and racquets will be available for those without them.
 Matches will consist of 10-game pro sets up to the finals, which will be the best two of three sets.

The China Lake Tennis Club's Code of Ethics will be followed in all play. Copies of the Code are available for loan from the Youth Center.
 No applications will be accepted after Thursday, July 31. For further information, contact Sandy Johnson, tournament director, at Ext. 72909.

Guest Houses More Roomy
 (Continued from Page 3)
 NAS Corpus Christi, Tex.; NAS Beville, Tex.; NSA New Orleans, La.; NAAS Fallon, Nev.; NAS Alameda, Calif.; NS Treasure Island, Calif.; NS Washington, D.C.; NS Subic Bay, R.P. and FA Yokosuka, Japan.
 Several additional guest houses, hotels and motels have been approved by the Chief of Naval Operations, but are not fully operational as yet. These include facilities at NAS Brunswick, Maine; NAS Point Mugu, Calif.; NAS Moffett Field, Calif.; NH Oakland, Calif. and NAS Memphis, Tenn.

From _____ PLACE STAMP HERE
 TO _____

PNI Dan Farrell Is NWC's July 'Bluejacket'

Oklahoma Native To Enjoy All Expense Weekend In Bakersfield

PNI Danny Jay Farrell, Enlisted Personnel Office Supervisor at VX-5, has been named "Bluejacket of the Month" for the month of July. Farrell was chosen for this high honor as a result of his high degree of efficiency and devotion to his duties, and for his military bearing, both on and off duty.

Farrell reported aboard the Naval Weapons Center in April of this year and is now attached to VX-5. He came here from duty with VA-36 at NAS Cecil Field in Florida, where he was the Personnel Office Supervisor and Unit Career Counselor.

Prior to being stationed at Cecil Field he served with Training Squadron Twenty-One, NAAS, Kingsville, Texas.

As a result of having been chosen as Bluejacket of the month for July, Danny and his wife, Barbara, will be treated to an all-expense paid weekend in Bakersfield by the Bakersfield Chamber of Commerce.

The Farrells will pick up a new car from Doug Butler of Desert Motors in Ridgecrest and will drive to Bakersfield where he will be met by representatives of the Chamber of Commerce and taken to the KERO-TV studios, where Danny will be interviewed.

While in Bakersfield, Danny and Barbara will be guests of The Casa Royale, located at 251 South Union Avenue, where they will receive lodging and meals.

In addition Danny will receive gift certificates in Bakersfield from Brock's Department Store, 1918 Chester Avenue; Valley Office, 1622-19th Street; the Cue Ball, 2111 Chester Avenue, and the Kern County Museum, 3801 Chester Avenue.

He will also receive discount certificates from other participating merchants, all of which are included in a hospitality packet which is given to the selectees upon their arrival.

Danny's earlier service while in the Navy includes a tour aboard the USS Intrepid for a Vietnam cruise in 1968, and a stint aboard the USS Point Defiance in 1963, which took part in the search for the Submarine Thresher. The Point Defiance picked up the Trieste, a BASCAP, and took it to Boston where it initiated a search for the sunken submarine.

The Farrells reside at 404 Independence, on the Center.



PNI Dan Farrell



Vol. XXIII, No.29 Naval Weapons Center, China Lake, California Fri., July 25, 1969



IDEP AWARD—Burrell W. Hayes (r) Chief Engineer of the Engineering Department is shown holding the coveted IDEP (Inter-agency Data Exchange Program) award which Lester Bechtel accepted in Washington recently for the Center (See Rocketeer issue of June 13). In the above picture, Capt. M. R. Etheridge, NWC Commander is shown presenting a Center plaque to Walt Kuzmin, of Computer Applications Incorporated, for their part in helping the Center to win this high honor.

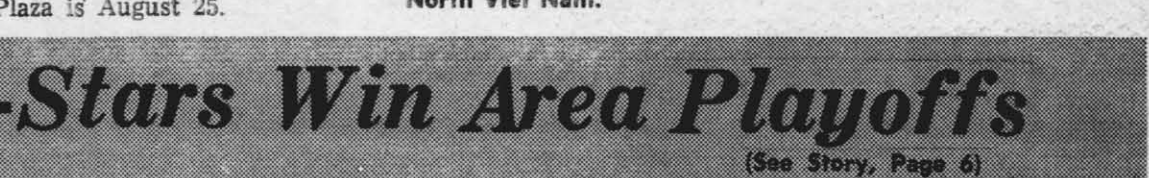
Schedule Told On Bennington Plaza Facelift

In answer to the many phone calls and in anticipation of other anxious questions regarding the refurbishment operations in the parking lot area of Bennington Plaza, the following construction schedule is offered for all interested parties.

Reopening of parking lots in front of the Shopping Bag and its annex is slated for August 4, according to the contractor, Asphalt Paving Company of Lancaster. Blacktopping will be completed this week, but time must be allowed for curing and for the new paving and striping before the parking lot can be reopened.

The next step in the improvement of Bennington Plaza will be the repair and repaving of the parking lot that serves the post office, malt shop and gym. This work is scheduled to commence on August 4 and should be completed in three weeks.

The old overlay will be removed and repairs made to the lot. Then, the surface will be compacted and primed for the new paving. This phase of the refurbishment will be finished on or about August 15. The target date for reopening of the west parking lot at the Plaza is August 25.



NAVY UNIT COMMENDATION—Lt. J. W. Kincheloe, right, is shown receiving the Navy Unit Commendation from Capt. L. A. Dewing Commanding Officer of NAF, at morning quarters in Hanger 3, at NAF, July 11. The commendation was awarded to Lt. Kincheloe for his service aboard the USS Enterprise in Attack Carrier Air Wing Nine, from February 22 to June 26, 1968, for combat operations against North Viet Nam.

Little League All-Stars Win Area Playoffs

(See Story, Page 6)

CHAPLAIN'S MESSAGE

Fly Me To The Moon



By Senior Chaplain Harold A. MacNeill

As Neil A. Armstrong stepped on the moon at 7:56 P.M., PDT, 20 July 1969, some may have thought with the Psalmist, "When I see the heavens, the work of your hands, the moon and the stars which you arranged, what is man that you should keep him in mind?"

What is Man?

- "An electron-proton complex"
"An animal closely related to the ape or monkey"
"A reflex mechanism"
"A variety of stimulus-response relationship"
"A special adjustment mechanism"
"A psychoanalytical libido"
"A predominantly subconscious or unconscious organism"
"A manufacturer of tools and instruments"
"A sub specie of Playboy"
"A victim of his drives and "residues"

Nearly 43 years ago, Dr. Pitirim A. Sorokin defined the word SENSATE as "The modern form of our culture emerged - the sensory, empirical, secular, and this worldly culture."

This man who is "A little lower than the Angels" can go to the moon, but he cannot solve the human predicament.

Sorokin went on to say in "The Crises of Our Age" that in the field of history and experience "he remains virtually unteachable, this unteachableness manifests itself in the current hope of extricating ourselves from the crisis by means of a variety of facile but shallow artifices, without any fundamental reorientation of values, any thorough-going change of mentality and conduct, any persistent personal effort to realize man's divine creative mission on earth instead of acting as a 'reflex mechanism,' or an organism endowed with digestive and sex functions and controlled by its 'residues,' 'drives,' and 'pre-empt reflexes.'"

Hence the crisis itself, and hence the inevitability of a fiery ordeal as the only available means of teaching the otherwise unteachable."

So man in his situational predicament works in his technologically "Sensate" world and hums, "Fly Me to The Moon" to escape the problems of himself and with his peers.

CENTER LIBRARY LISTS NEW BOOKS

A complete list of new books is available in the library.

Fiction

- Anderson—Seven Conquests.
Baxt—"I" Said the Demon.
Forrest—And to my Nephew Albert...
Ind—The Sino-Variant.
McCall—The Man says Yes.
Woivode—What I'm Going to Do I Think.

Non-Fiction

- Drotning—Black Heroes in our Nation's History.
Gran—How to Understand and Teach Teen-agers.
Granatelli—They Call Me Mister 500.

- Heimer—The Long Count.
Klaw—The New Brahmins.
Marshall—Ambush.
Verdon—The White House Chef Cookbook.
Becker—The Coin Makers.
Blumenthal—The Complete Book of Letter-Writing & Modern Correspondence.
Casey—The Truth About Probate and Family Financial Planning.
Christopher D. Smithers Foundation—Understanding Alcoholism.
Dunning—Home Planning & Architectural Drawing.
Manley—Beaches: Their Lives, Legends, and Lore.

The Rocketeer

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Capt. M. R. Etheridge, USN
NWC Commander
"J." Bibby
Public Affairs Officer
Joan Raber
Associate Public Affairs Officer (Acting)
Director of News Bureau
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Editor
Jack C. Lindsey
Staff Writer
Lucille Edwards
Editorial Assistant
PH1 Gary D. Bird, PH2 Delmar E. Hart,
PH2 Michael F. Krause, AN Maurice Dias,
Staff Photographers



DIVINE SERVICES

Protestant (All-Faith Chapel)—
Morning Worship—8:15 and 11 a.m.
Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Rooms 5, 6, 7, 8) located opposite Center Restaurant.
Roman Catholic (All-Faith Chapel)—
Holy Mass—7, 9:30 a.m., and 12:30 p.m. Sunday.
Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m.
Confessions—7 to 8 p.m. Saturday.
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.

DEADLINES:
Tuesday, 4:30 p.m.
Tuesday, 11:30 a.m.
The Rocketeer receives Armed Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds in compliance with NavExos P-35, revised July 1958. Office at Nimitz and Lauritsen.
Phones: 71354, 71655, 72082

ASPA and CLEA Sponsor VTA Program Talks

The local chapter of the American Society for Public Administration (ASPA), in cooperation with the China Lake Education Association (CLEA), are sponsoring two events on Monday, July 28, which should be of interest to many area residents.

Firstly, Mrs. Barbara Hodgdon, Director, Western Region, Volunteers of America (VTA) and Sam Dogbe, a native of Ghana, who has been working with VTA for the past two years, will speak at a luncheon at the COM at 11:30 a.m.

Other Event

Burroughs High School will host the second event which will immediately follow the luncheon meeting. This will be a roundtable discussion consisting in substance of the type of program in which Mr. Dogbe has been involved.

This discussion will also include the two luncheon speakers and will enable interested educators and school board members, as well as other participants, to get an in-depth understanding of the goals of VTA and their experience with the program to date. This program will begin at 1:30 p.m. in the Burroughs library, Building B01.

Barbara Hodgdon

Mrs. Hodgdon is connected with the USC School of Education and Dogbe is with the Temple City Unified School District and the L.A. School District. The two speakers will discuss the broader aspects of VTA, which is a State Department program more popularly known as the "Peace Corps in reverse."

Mrs. Hodgdon has been a consultant and coordinator for elementary school African studies programs or the Temple City Unified School District, and was a member of the Peace Corps at Manje, Malawi, in Africa, from 1962 to 1964.

Samuel Dogbe

Samuel Kwashi Dogbe is a young school teacher from Ghana who came to the Uni-

(Continued on Page 3)



NATIVE GHANIAN—Sam Dogbe, a teacher from the African country of Ghana, who has been teaching and advising Americans on African studies under the Volunteers of America program, is shown talking to a high

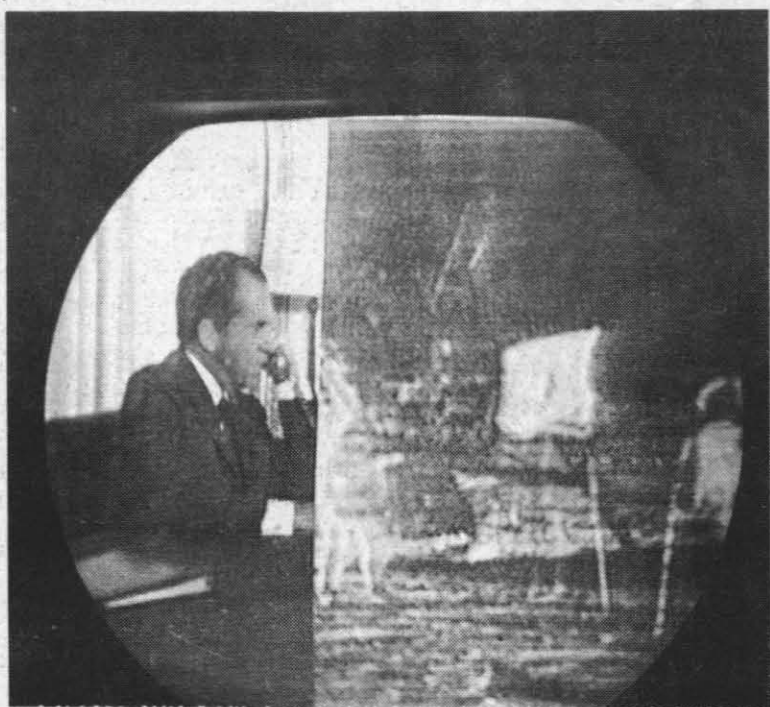
EMPLOYEE SERVICES BOARD QUARTERLY AUDIT

The quarterly audit of the Employee Services Board accounts provide the following financial status reports as of June 30, 1969:

Table with 2 columns: ASSETS and LIABILITIES. Rows include Cash on Hand, Cash in Bank, Accounts Receivable, Notes Receivable, Prepaid Expense, Equipment & Facilities Inventory, Less: Accumulative Depreciation, TOTAL ASSETS, Accounts Payable, Taxes Payable, Insurance Payable, NET WORTH, and TOTAL LIABILITIES & NET WORTH.

During the last six months of this fiscal year, six checks amounting to \$39,000 were allocated to the Joint Navy-Civilian Recreation Council to be used in support of the Center's recreation program.

Apollo 12 Astronauts All Navy



APOLLO 11 MISSION—Larry Jones of French's Pharmacy took this photograph last Sunday evening of President Nixon talking to Neil Armstrong and "Buzz" Aldrin as the latter were situated on the moon. The Apollo 12 mission, which is scheduled to make the second manned-landing on the moon late this year, will be composed of an all-Navy crew. Named to make the flight are Commanders Chas. Conrad, Jr., Richard F. Gordon, Jr., and LCDr. Al Bean.

Swim Team Sets Records

(Continued from Page 6)

fly; Susan Hamm, Backstroke; Paige Sorbo, Lisa Falterman, Denise Flynn and Terry Paine, Freestyle Relay.

Boys 13 and 14—Bob Seeley, Backstroke; Chris Moore, Butterfly and Freestyle; Ricky Lovern, Breaststroke and Individual Medley; Keith Adicoff, Bob Seeley, Ricky Lovern and Chris Moore, Freestyle Relay.

Girls 15 and 17—Sandy Kinchloe, Breaststroke and Freestyle; Jean Chatterton, Butterfly, Backstroke and Individual Medley, winner of High Point Trophy.

Boys 15 and 17—Curt Knight, Freestyle; Richard Sound, Breaststroke; Jeff Hamm, Backstroke and Individual Medley; Curt Knight, Richard Sound, Jeff Hamm and Chris Moore, Freestyle Medley.

In a meet held at the Commissioned Officers' Mess pool July 22, IWV beat Barstow 313 to 208 in a meet that saw six new pool records.

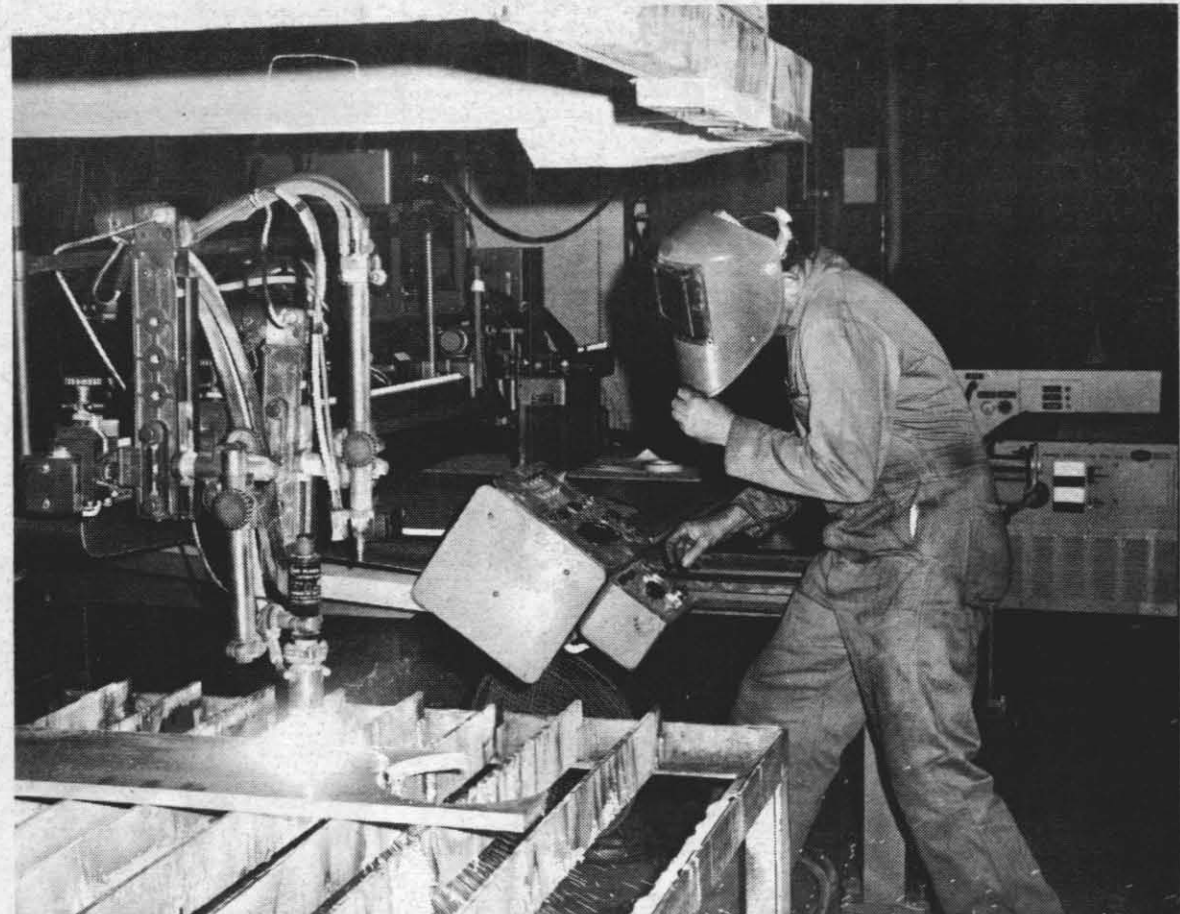
New pool records for IWV swimmers were: Boys 15-17 backstroke, Jon Allan; Boys 15-17 breaststroke, Rick Bjorklund, and Girls 13-14 freestyle relay, J. McGlothlin, L. DeMarco, J. Kaufman and K. Bjorklund.

11ND Golf Meet To Be Hosted By Local Golf Course

China Lake will host the Eleventh Naval District Golf Tournament, July 28-31, with 64 golfers from district bases competing in the 72-hole affair. This will be the first time that China Lake has had the honor of hosting this event.

To qualify for the tourney, golfers must compete in regional playoffs which began July 21 at Long Beach and San Diego. Local golfers who participated in the regionals included Gene Boyts, Jim Kinchloe, Mike Hines, Charles Wack and Larry Dewing, all of NAF, and Don Fraser, of NWC. John Beckwith, new Golf Course Superintendent, has been working diligently since arriving at NWC in late May, to prepare the course for this tournament.

New Plasma Arc Cutting Machine Saves Time, Money



ABOVE—Henry Olinger is shown adjusting the controls of the Plasma Arc Cutting Machine as the torch burns through a 3-in. thick piece of aluminum. This Plasma cutting unit is mounted on a Linde Shape Cutting Machine, seen nearly surrounding Olinger. RIGHT—Olinger watches the Photocell Tracer Unit as it follows a line drawing mounted on a table. This unit follows any sketch, line drawing or outline rather than the costly templates of metal formerly used when the Douall Band Saw was used to cut non-ferrous metals. The unit is located in the southwest corner of the welding shop in Michelson Laboratory.



Hyles Battling For Triple Crown Leads RBI's, HR's, Hitting .384

In action Monday, July 14, Ace-TV beat VX-5, 5-0, behind the two-hit pitching of Bert Galloway. Jim Bevan hit a two-run homer in the third inning. In the nightcap, Magic Cleaners whipped Genge 3-2 in a tight contest. Bobby Kochman followed Hyles with eight homers. Thursday's game was cancelled due to the Mojave Interservice League Softball Championships at Barstow.

On Tuesday evening, El Rancho met Ridgecrest Shell and again the team from El Rancho knocked off a league-leader. This is the third time this year that the Billy Brown-Ray Gier battery has accomplished this feat. El Rancho took the contest, 5-2. Ron Brennecke for El Rancho and Al Hyles hit homers, Hyles' a two-run blast.

In the second game of the evening, Ace-TV beat NAF 1-0 in the closest game of the year for NAF. Galloway gave up only three hits. Pete Klassen scattered only six hits in a losing effort. Wednesday VX-5 beat Genge 5-3 despite a home run in the fifth inning by Don Sichley for Genge.

In the nightcap of the evening Ridgecrest Shell handed a 15-2 loss to hapless Magic Cleaners in a rout which saw Ridgecrest Shell score 9 runs in the first two innings. Al Hyles hit a home run in

the seventh inning which gave him nine home runs and 25 RBI's for the year, and a batting average of .384, which makes him a definite triple crown threat. Andy Gilpin follows Hyles with eight homers.

Thursday's game was cancelled due to the Mojave Interservice League Softball Championships at Barstow.

Table with 4 columns: Team, Won, Lost, Pct. Rows include Ace TV, Ridgecrest Shell, Magic Cleaners, N.A.F., and VX-5.

Table with 4 columns: Name-Team, AB, H, RBI, Pct. Rows include Denny Crager, Al Hyles, Bill Mullin, Max Smith, Drax Maulder, Bob Crawford, Dink Patterson, Marv Johnson, Don Williams, Wally Parmenter, Home Runs-Al Hyles, Ridgecrest Shell 9, RBI-Al Hyles, Ridgecrest Shell 25.

Sign up for U. S. SAVINGS BONDS, FREEDOM SHARES

Device Replaces Costly Templates

A unique device for cutting non-ferrous metals is currently being used in the Welding Shop—or Reclamation Shop—of the Engineering Department in Michelson Lab. Called a Plasma Arc Cutting Device, it is mounted on a Linde Shape Cutting Machine, and is used primarily for cutting aluminum, stainless steel, carbon steel and other extremely hard to cut metals.

The machine, which is operated by Hartley Braspeninckx and Henry Olinger, under shop foreman Harry L. Keyzers, saves both time and money by replacing the Douall band saw which was formerly used in cutting these metals.

Prior to the acquisition of the Plasma Arc Cutting Machine, costly templates (a pattern or gauge) of metal, plastic or wood had to be used as a guide to cut the metal. During the actual cutting operation on the Douall saw, many blades were either broken or dulled due to the hardness of the metals involved. In addition, each cutting operation was lengthened as well because operators had to continually stop and put new blades on their machines.

The Plasma Arc Cutting Machine has changed all of that. The use of either mechanized or manual equipment now produces economical, high-speed, ready-to-weld cross-free cuts.

Because non-ferrous metal is difficult to cut, a maximum transfer of heat to the work is essential. The plasma arc torch uses a transferred arc (the workpiece itself becomes an electrode in the electrical circuit). The work is thus subjected to both plasma heat and arc heat.

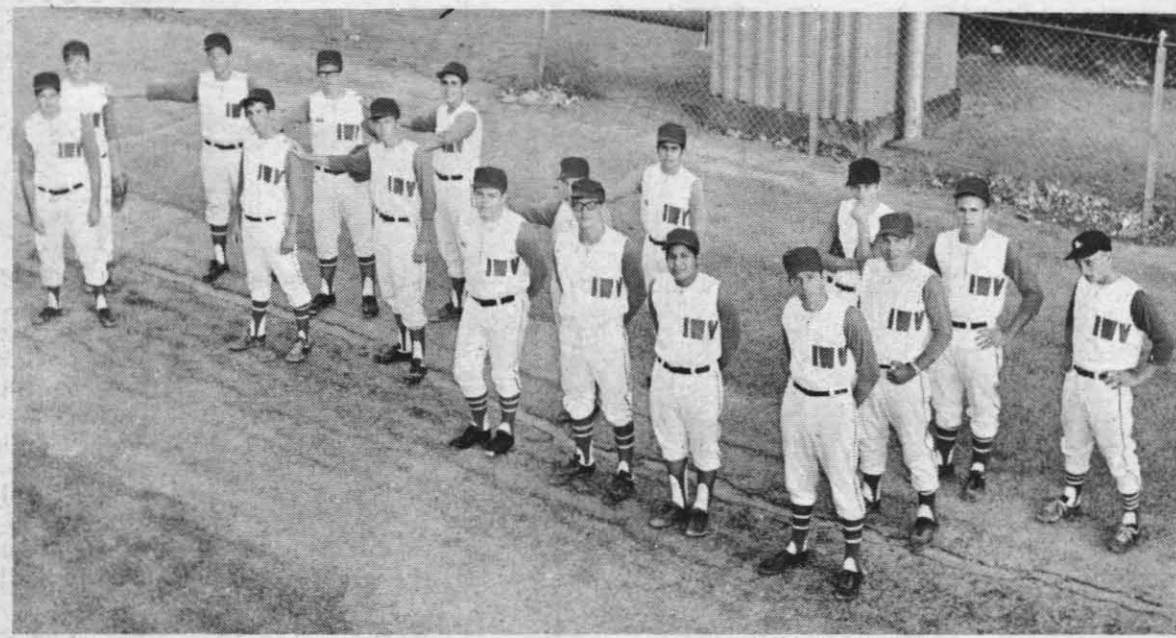
Direct current, straight polarity is used. Precise control of the plasma jet is possible by controlling the variables—current, voltage, type of gas, gas velocity, and gas flow.

Plasma is the result of an arc heating a gas to such a high temperature that the gas becomes ionized. At this temperature the gas consists of positive ions, negative electrons, and neutral atoms.

Plasma is frequently referred to as the fourth state of matter—the others being gas, liquid, and solid. When matter passes from any one state to another, latent heat is involved. Latent heat is required to change water into steam, and similarly, the plasma torch supplies energy to a gas to change it into a plasma. When a plasma changes back to a gas, the heat is released.

In a plasma arc torch, the tip of the electrode is located within the nozzle. The nozzle has a relatively small opening which constricts the arc. The high-pressure gas must flow through the arc where it is heated to the plasma temperature range. Instead of expanding, it is forced through the nozzle where it too is constricted. It emerges in the form of a sonic jet, hotter than any flame. Its heat melts any known metal and its velocity blasts the molten metal through the kerf, resulting in a high-quality cut, free of dross.

The plasma cutting unit is (Continued on Page 8)



COLT ALL STARS—Members of the IJV Colt League All Stars spell out the word "Colt" in this team photo taken prior to a practice session held at Schoeffel Field. The

All Stars began play in the double elimination tournament at Sylmar yesterday. Billy Braddock is the manager of the All Stars and Art Craddock is serving as the coach.



MDISL TOURNAMENT ACTION—Al Hyles, right, catcher for the China Lake "Rockets," is shown in the process of scooping up a low peg, in an effort to tag Ernie Burrel, left, of Norton AFB, out at the plate in action on the Barstow Center's Sorensen Field. The "Bulldogs" of the Marine Corps Supply Center at Barstow won the tourney in

a final game against Twentynine Palms, 8-7. Players who attended from China Lake are: Marvin Johnson, Dick Braun, Mike Tosti, Don Williams, Jim Latta, Larry Edge, Bill Sullivan, Billy Brown, Al Hyles, Pete Klassen, Bill Fernow and Ray Gier. China Lake was defeated in their first game by Norton, 9-1.

China Lake Little League All Stars Take Bishop Tournament

The China Lake Little League All Stars became the Area 1, District 51, champions by defeating Ridgecrest, Owens Valley, and the weather, in games played at the Bishop Little League Field.

On Friday, July 18, the team from China Lake nosed out a 5-4 win over Ridgecrest in a hotly-contested game which was delayed for one hour by a downpour.

Manager Max Smith and Coach Dan Branson stated, however, that the boys' spirits were never dampened as they pulled out a tough one against Ridgecrest in a game that saw two 4-run innings and some superb pitching from both teams.

In Saturday's game against Owens Valley, China Lake advanced to the District competition by sending the Owens Valley representatives down to defeat, 11-9, in another close game.

Kevin Smith and Steve Paine, returnees from last year's district champions, will lead the local All Stars against Parkview in a game to be played at Palmdale, tonight at 7:30 p.m.

China Lake Beats Ridgecrest

In a typically tough game, the China Lake team eked out a 5-4 decision over a valiant Ridgecrest team. The winning run was scored by Randy Crawford in the sixth inning, breaking a 4-4 tie, when Jimmy Kincheloe executed a perfect squeeze bunt to score Crawford, who had taken the third on an error after singling.

In the bottom of the sixth, Steve Paine, hurler for China Lake, walked the lead-off batter, but then struck out the next three batters to put the game on ice.

Earlier, in the second inning, China Lake had scored four big runs on Mike Donnelly's double, a single for Crawford, a sacrifice by Kincheloe, followed by singles by Benson and Merril Koff, and aided by errors on smashes by Kevin Smith and Paine.

The big lead was short lived however, as Ridgecrest storm-

ed back with four runs in the third inning.

With two out, Steve Blanche and Breedon singled, and Amos Blanche walked to fill the bases. A walk to Becker followed by a line drive to Koff in the outfield, who narrowly missed a shoestring catch, allowing the ball to roll to the fence. The triple cleared the bases tying the score at four apiece.

Owens Valley Tough

In a game that looked like a rout, Owens Valley fought back to put China Lake on the defensive and narrowly missed defeating the local team, losing after a three-run rally in the sixth inning, 11 to 9.

OV had defeated Bishop Friday 6-0 to advance to the finals against China Lake. The game Saturday night, played in severe humidity and after-effects of the heavy rain, saw China Lake take a fast lead by scoring three runs in the first inning and five more in the second.

OV scored their first run in the third on two walks and a single, but were still seven runs behind the front-running local squad.

Owens Valley scored twice more in the fourth only to see China Lake bounce back with three more runs in their half of the fourth inning, seeming-ly putting the game away.

To spectators at the game it seemed to be all over, however China Lake obviously tired, began to make fielding errors, and Owens Valley scored three more runs in the top of the fifth on a soft single and two infield hits.

With one out in the sixth inning, a tired Kevin Smith hit the next two OV batters. He got the next man to pop up but then was touched for a double and a single to score three more runs for Owens Valley.

Smith then summoned all his energy and got the third out after going 3 and 2 on the hitter, putting the game away for China Lake.

Local Red Suits Do Well At Area Meets

Members of the Indian Wells Valley Swim Team traveled to Bakersfield July 19 to compete in the Kern County Championships. In addition to garnering several first place ribbons, red-suiters broke or tied eight pool records.

IWV ribbon winners were as follows:

Girls 8 and under — Karen Hayes, backstroke.

Boys 8 and under — Jon Goettig, Kirk Odencrantz, Bobby Gilmer and Dicky Dye, Medley Relay.

Girls 9 and 10 — Susan Goettig, Backstroke and Butterfly.

Boys 9 and 10 — Martin Forrester, Breaststroke; Martin Forrester, Kenny Hayes, Steve Hamm, and Ricky DeMarco, Freestyle Relay.

Girls 11 and 12 — Jan Hillard, Butterfly.

Girls 13 and 14 — Kris Bjorklund, Backstroke, pool record. Linda DeMarco, Breaststroke, pool record tied; Jeanne Kaufman, Linda DeMarco, Jane McGlothlin and Kris Bjorklund, Freestyle

Relay, and Medley Relay, both events pool records.

Boys 13 and 14 — Mike Badalich, Backstroke.

Boys 15 and 16 — Rick Bjorklund, Breaststroke, pool record; John Allan, Backstroke, pool record; Rick Bjorklund, Vince Villa, Jon Allan and Tad Allan, Freestyle Relay, pool record.

Senior Girls — Jane Winward, Breaststroke, pool record; Ann Allan, Individual Medley; Sandy Winfrey, Backstroke; Jane Winward, Ann Allan, Kathy Knemeyer and Sandy Winfrey, Freestyle and Medley Relays, both pool records.

Senior Boys — Charles Lattwig, Breaststroke.

On the same day, while one part of the large IWV Swim Team was competing in Bakersfield, the rest of the team was busily engaged in racking up ribbons in Bishop, participating in a dual meet in that city. IWV took home the perpetual team trophy by whumping Bishop, 471 to 241.

First place ribbons were won by:

Girls 6 and under — Anne Hugo, Butterfly, backstroke, and breaststroke, winner of High Point Trophy.

Girls 7 and 8 — Joan Woodworth, Breaststroke.

Boys 7 and 8 — Donnie Burke, Breaststroke; Karl Kuletz, Freestyle and Backstroke; Donnie Burke, Karl Kuletz, Ricky Noland, Karl Nicholson, Freestyle Relay.

Girls 9 and 10 — Gary Mahlum, Breaststroke; David Thorsted, Butterfly.

Girls 11 and 12 — Becky Beresford, Backstroke; Elaine Forrester, Freestyle, Breaststroke, and Individual Medley, winner of High Point Trophy; Elaine Forrester, Laurie Adicoff, Becky Beresford and Ronnie Kaufman, Freestyle Relay.

Boys 11 and 12 — Bobby Burke, Individual Medley.

Girls 13 and 14 — Lisa Falterman, Breaststroke; Terry Paine, Freestyle and But-



JOAD ARCHERY WINNERS—Four members of the JOAD (Junior Olympic Archery Development) group are shown with trophies that they won in recent tournaments. From left to right the youngsters are: Mark Loper, Alicia, Pam and Kirk Bullock. Loper won the Junior Stakes, in the Youth Division of the 8th annual Mammoth Animal Shoot July 4 and 5. The other small trophy he is holding is for scoring the most spots (25) of any other archer, including adults, in the tournament. The Bullock children won their trophies in the California Indoor State JOAD Championship Tournament held in Covina, June 28. Alicia placed third in the Cadet Girl division; Pam got 2nd in the Junior Girl division, and Kirk a third in the Cadet Boy Division. JOAD is co-sponsored by the China Lake Youth Center and the China Lake Bowmen, an archery club.

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LCDR. WILLIAM J. SCHELL reported aboard the Center recently to assume the duties of Assistant Public Works Officer. LCDR. Schell is a native of Amarillo, Texas. He entered the service in September 1943 and was commissioned in February, 1961. He received a BS in Architecture from the University of Kansas, Lawrence, Kansas and attended the Naval Justice School, in Newport, R.I. He and his wife, Barbara, and two sons, Andrew 12, and John 10, reside at 405 Essex on the Center. LCDR. Schell is a member of the American Institute of Architects.

New Burroughs Registrants Need Physicals

According to Kern High School District assistant superintendent Dr. Grant W. Jensen, all incoming freshmen and other students new to Burroughs High School this fall will be required to undergo a physical examination before they can be enrolled for the fall semester.

Dr. Jensen said "parents may obtain physical examination forms from the high school. The form must be completed and signed by the family physician." The district code calls for the physical examinations as a safeguard to all students in the local high schools, he stated.

Dr. Jensen also reminded parents that each new student to California schools must have a polio vaccination, and must have either had the measles, or a measles vaccination. The educator stated that this is required by State law. The requirement may be waived by parents who sign an affidavit to the effect that such vaccinations are contrary to the family's religious belief.

Students should obtain their vaccinations from private physicians. If this is not possible, the vaccinations may be obtained at the Kern County Health Department clinic at 1700 Flower Street, Bakersfield, on any Friday between 2 and 4 p.m. Students desiring vaccinations from the Health Department must have a permit signed by a parent or legal guardian. Permits may be obtained at the clinic.

Solid State Facility Reaches Construction Milestone To Be Completed In January 1970

Center residents were surprised during the close of last week to see a large building suddenly blossom at the corner of Blandly and Knox.

Designed to house the Solid State R & D Laboratory, the structure will eventually become a 30,000 square foot new wing of Michelson Lab. It is scheduled for completion in early January 1970, according to the Technical Coordinator, Mr. Maurice J. Curtis of the Engineering Department.

The new facility will provide permanently assigned space for such expanding technologies as microelectronics, holography, laser ranging, electromagnetic compatibility, infrared detectors and high-sensitivity radar receivers. In addition, nine individual rooms will be assigned for limited periods of time by the Technical Advisory Panel (TAP) to those projects requiring the special environmental control, electrical power or high pressure air provided in each room.

For microelectronic and infrared detector work, rooms will be provided with clean air equal to that at the NASA Lunar Receiving Laboratory that will initially examine the rocks returned this week from the moon, Mr. Curtis announced.

In addition, shielded enclosures—actually large, room-sized, all-welded steel boxes—will provide areas in which to test circuits as small in size as a tenth-of-an-inch square to large high-sensitivity radar receivers. These steel rooms will reduce or attenuate electromagnetic radiation to a level lower than that existing on a remote South Sea island, in the middle of the Sahara, or at the Antarctic.

Pete Leet, Detection Branch, AOD, and Dr. Julian Thompson, Photophysics Branch of SDD, will occupy adjoining space in the core of the building. Both branches will make extensive use of lasers.

In addition, Norman Ronning of Electronic Systems Branch, SDD, and Lloyd Shreve, System Electronic Branch, ED, will operate adjoining shielded enclosures.

David H. Chapman of Code 7037 has been the Project Design Engineer on the structure since it was approved for construction on the Naval Weapons Center. Captain K. C. Abplanalp, Resident Officer in Charge of Construction for SOWESNAVFACENGCOM, is responsible for direction of the Cardan Company to provide a complete facility with the most modern capabilities.

Under the direction of F. A. Chenault, the Engineering Department will manage the facility for use by all Technical Departments at China Lake and Corona.

Aetna Agent At Community Center

The Aetna Insurance representative, Mr. Howard Keenan, will be at the Community Center next Wednesday, July 30, from 9 a.m. until 4 p.m.



NEW BUILDING—Center officials convened recently on the construction site of the new solid-state R and D laboratory recently during that phase of building that saw the cement walls pulled into position by a huge crane. On hand for this stage of the construction were (l-r) "Hack" Wilson, Deputy Technical Director; F. A. Chenault, Head,

Engineering Department; Capt. K. C. Abplanalp, Public Works Officer; Dave Chapman, Project Design Engineer on the structure; and Fran Carlisle, Code 55, who will be one of the users of the building. The structure is located at the corner of Blandly Ave. and Knox Road and is scheduled for completion in early January.



SIGNS FOR SIX—AQI Benjamin V. Olver, left, reenlists for another six years Naval service after completing more than 14 years prior active duty. AQI Olver reported aboard the Center in October, 1968. Olver's brother, RMI Douglas Olver, who also serves at NWC, was a witness to the ceremony. LCDR. C. M. Bates, right, congratulates Olver.

VTA Representatives To Speak

(Continued from Page 2) September of this year where he will continue teaching. Dogbe is a member of the VTA program which began in 1967 when 30 women and 34 men arrived in the United States from 12 different countries to teach American children the special skills and knowledge of their homelands. Tickets to the luncheon are \$1.50 to ASPA and CLEA members and \$2 to non-members. The public is cordially invited.

Guest Houses Are More Roomy And Attractive

Pleasant, attractive rooms are making a visit to a new base (or a permanent move) easy on the pocket book. Guest houses, hotels/motels and cottages run by the Navy Exchange provide temporary housing for military families in many parts of the country and overseas.

These facilities have been established where convenient and inexpensive civilian accommodations are not available. They are provided on a "first come, first served" basis. Advance reservations are accepted by written request to the Navy Exchange officer at the installation concerned.

Although the period of occupancy varies with each command, usually a visit does not exceed 15 days.

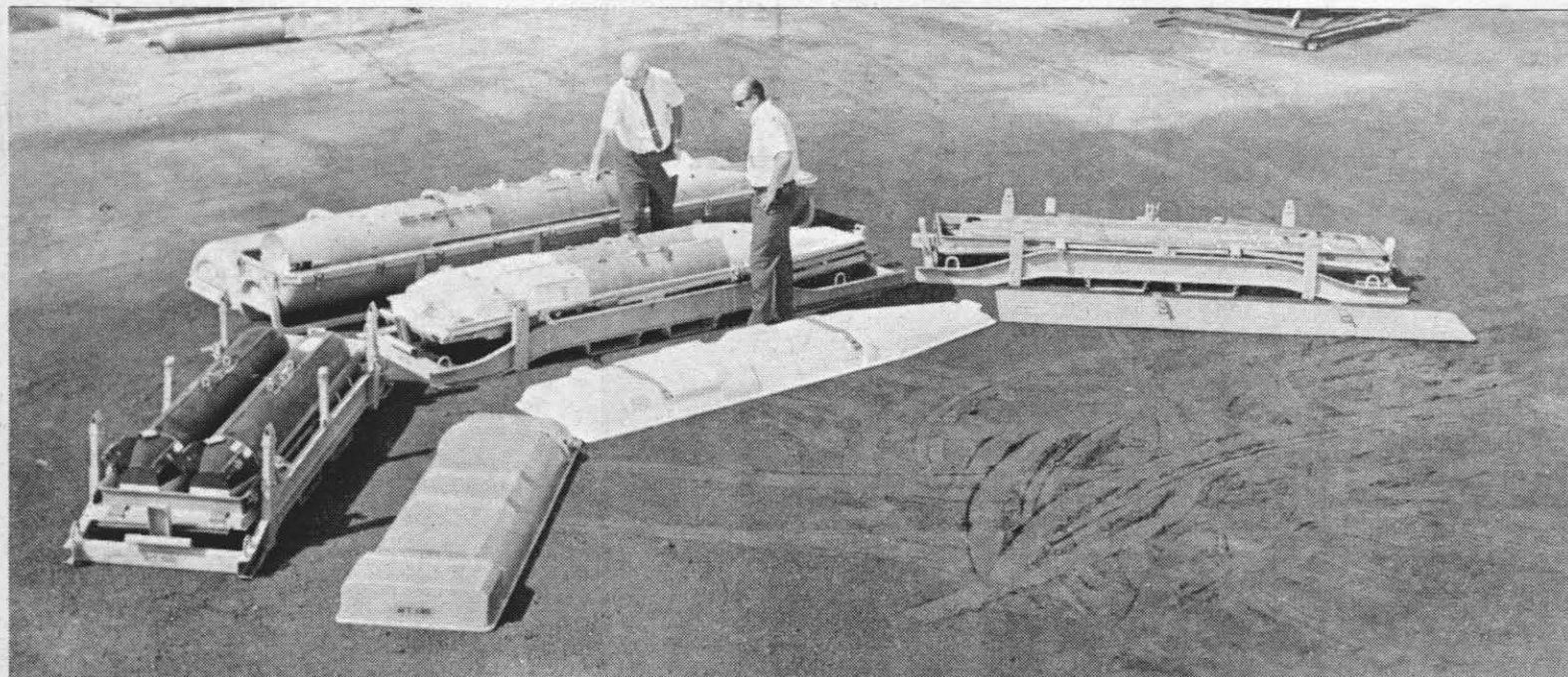
Guest houses now in operation are located at NTC Bainbridge, Md.; NAS Jacksonville, Fla.; NAS Pensacola, Fla.; NAS Whiting Field, Fla.; NTC Orlando, Fla.; NAS Grosse Ile, Mich.; NS San Juan, P.R.; NAF El Centro, Calif.; NS Kodiak, Alaska; NS Adak, Alaska; NS Midway Island; NHA Yokohama, Japan; NS Argentina, Nfld. and NS Keflavik, Iceland.

Hotels, motels and cottages are available at NAS Quonset Point, R.I.; NH Philadelphia, Pa.; NAS Lakehurst, N.J.; NS Charleston, S.C.; NAS Cecil Field, Fla.; NS Mayport, Fla.

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NWC Aids Improved Rearming Rates Program

Key Role In Development Of Packaging



IMPRESSIVE DISPLAY—John Machowsky, Head, Weapons Container Branch of the Engineering Department, and IRRP Project Manager for NWC, points out some of the features of the Center's handiwork to Bill Valenteen, Rocketeer Editor. The display above represents packing problems that have been solved for IRRP by the Center.

Recognizing the inherent problems of weapons handling operations aboard aircraft carriers, the Bureau of Naval Weapons (predecessor of the Naval Air Systems Command), in concert with the Bureau of Naval Ships (predecessor of the Naval Ships Systems Command), began an intensive study of ordnance handling some years ago for aircraft carriers. From this study came the Improved Rearming Rates Project (IRRP).

The purpose of this project is three fold: first, to achieve a major increase in aircraft rearming rates; second, to achieve a major increase in weapon strikedown and strikeup rates; and third, to achieve a marked improvement in air-launched weapons handling & stowage throughout the logistic sequence.

Special Packaging

Basic to the entire Project is the assembled weapon concept, in which weapons are to be assembled and tested at a Naval Weapons Station, placed in a special type of package called a cradle and delivered to the CVA in an assembled configuration instead of a group of components. Handling operations during replenishment and strikedown are to be minimized on the CVA by stowing the weapon in its cradle rather than decanning it prior to strikedown.



Decanning will occur when weapons are configured for ready service.

In line with these ideas, the Puget Sound Naval Shipyard has completed extensive studies of the various classes of CVA's wherein appropriate improvements to each different class of hull were conceived. These improvements range from a fully mechanized handling and stowage system to be installed on the CVA-67 and future carriers of the same as to those limited improvements necessary to permit handling assembled weapons on carriers of the CVA-19 class.

In addition, Weapons Tasks have been issued to various facilities around the country to produce packaging and stowage concepts that can be used in conjunction with newly developed stowage and handling systems.

NWC Participation

Here at China Lake, the Center is involved in the development of missile cradles to implement the assembled round shipping and storage concept in the IRRP program. This concept is a packaging technique for shipping and stowing multiple units as assembled air-launched weapons and permits weapons to be handled intact throughout their logistic cycle to aircraft carrier stowage. In the present system of logistics for weapons, components are

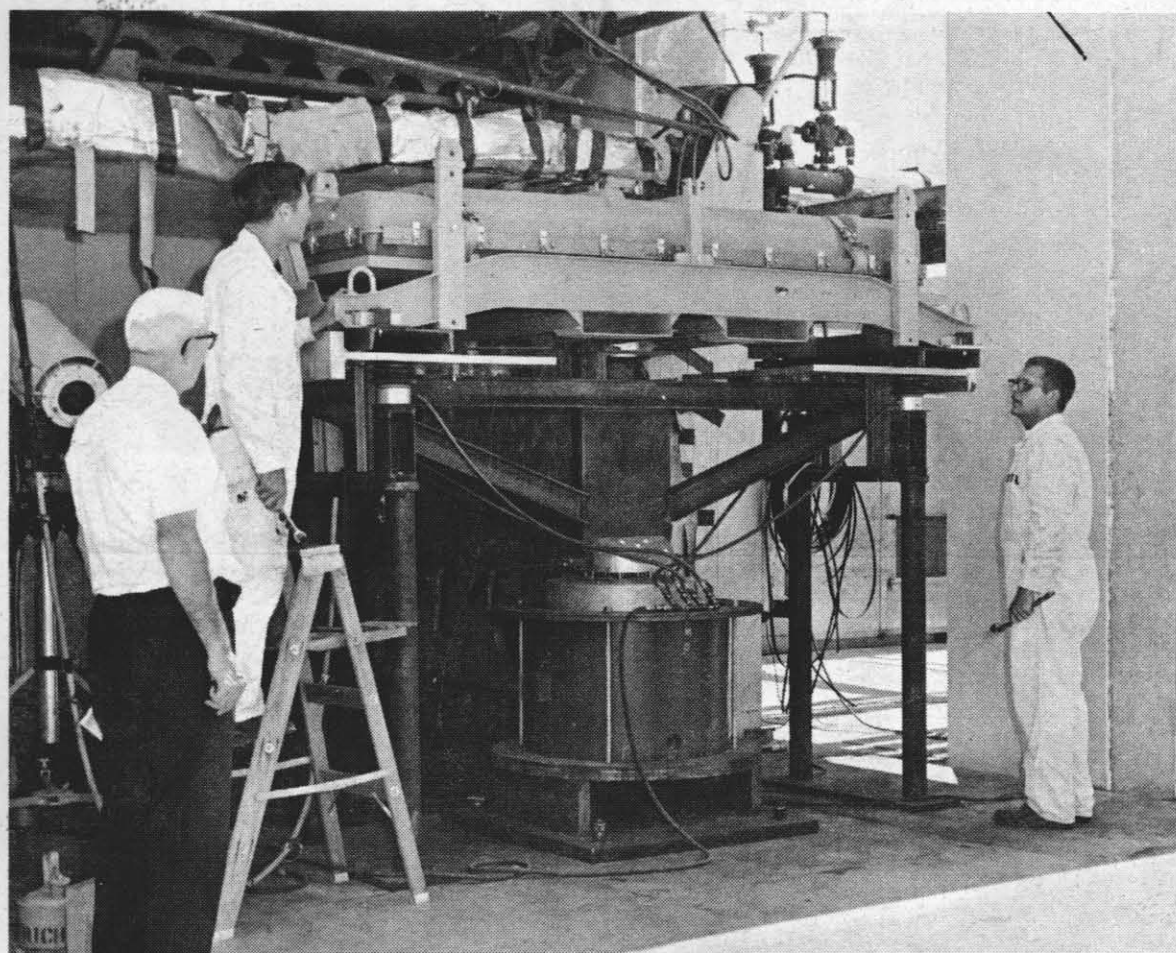
generally packaged in individual containers.

Under the technical direction of John Machowsky, Weapons Container Design Branch, Code 5566, Engineering Department, development of a four-unit Sidewinder cradle and a two-unit Rockeye cradle have been completed and released for first-buy procurement. Prototype developmental missile cradles, fabricated in the Engineering Department Shop, Code 5545, have been furnished to the USS Oriskany (CVA-34) and USS J. F. Kennedy (CVA-67) for evaluation and fleet introduction.

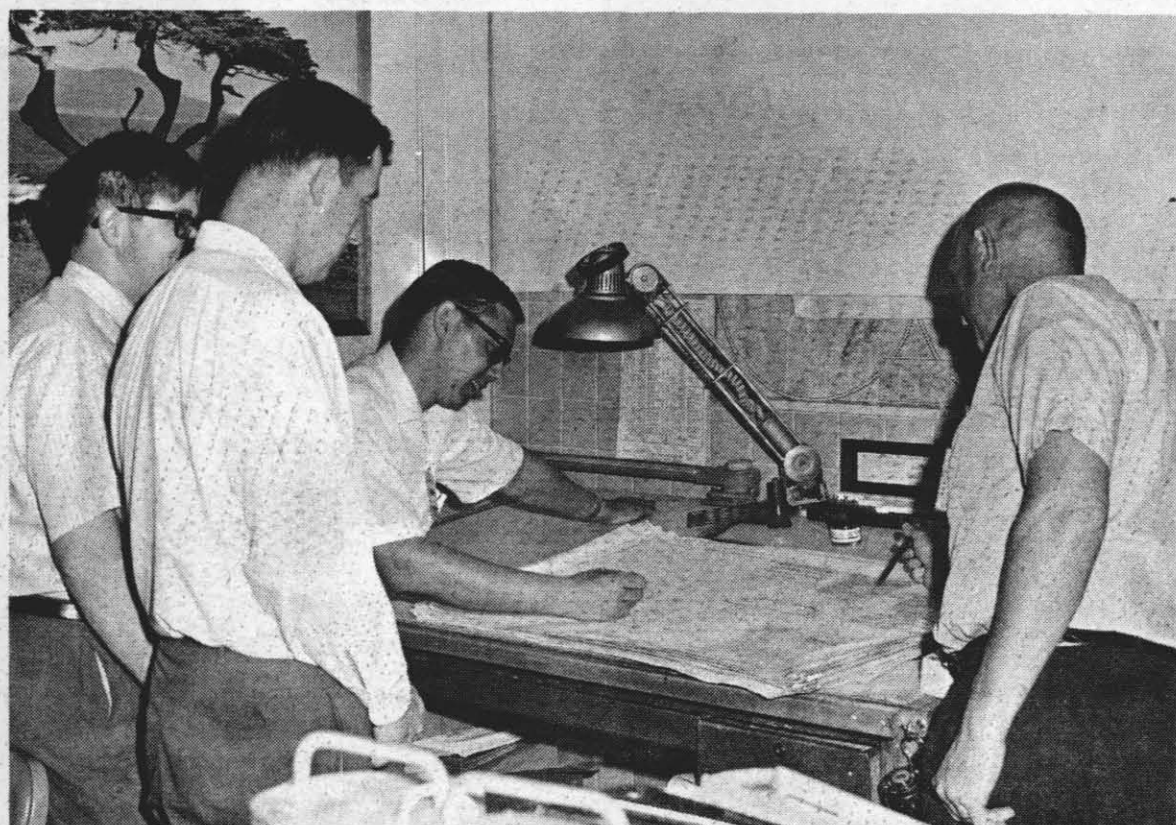
In the NWC developed cradles, the assembled air-launched weapons are packaged in shock mitigated, environmentally-sealed plastic shells mounted on a steel-base pallet. These cradles are designed to permit stable tiering and provisions for handling by forklift trucks and the end-loading MK-42 hand-lift trucks have been provided. Lifting-eye attachments facilitate high line transfer from ship to ship, or helicopter vertical replenishment.

The project was authorized by the Naval Air System Command, and is directed by Mr. J. Price, IRRP Deputy Program Manager, Naval Air Engineering Center, Philadelphia.

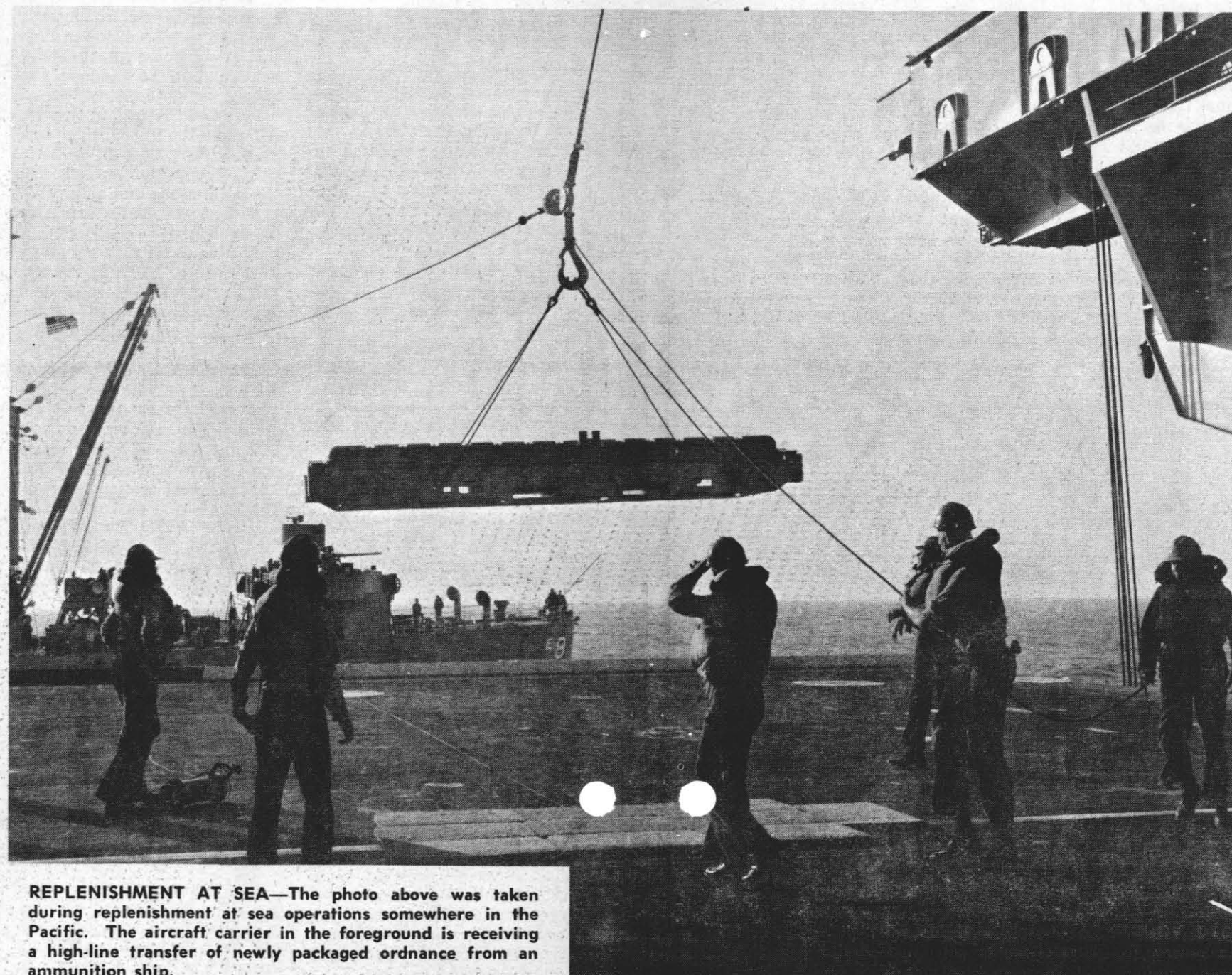
Work is continuing at NWC in developing cradle designs for the Bullpup, Sparrow and SHRIKE missiles.



TRANSPORTATION TEST—A MK 18 Mod O Cradle for two Rockeye bombs is shown above suspended on a vibration exciter to test the configuration's durability under the rough treatment it will get during transportation. The test setup is being discussed in the photo by (l-r) Mike Waldron, Code 5566, and Hershel Hicks and Bill Donnelly, of Code 4533. The facility is operated by the Propulsion Development Department.



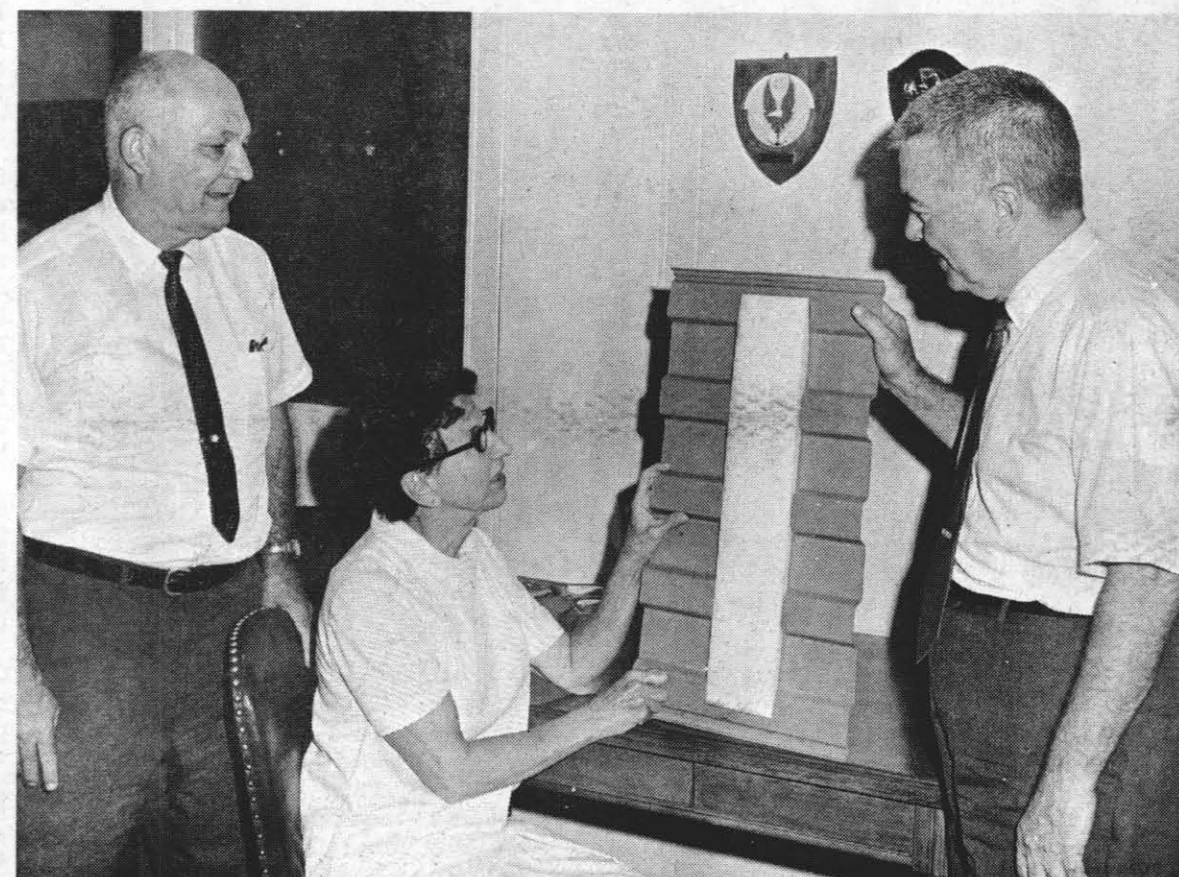
STUDY DESIGN—Designers in Code 5566 discussing product improvement and evaluating a new design include (l to r) Ed Anderson, William Boyle, Charles Read and Bill Moore. The photo was taken in the Engineering Department's spaces.



REPLENISHMENT AT SEA—The photo above was taken during replenishment at sea operations somewhere in the Pacific. The aircraft carrier in the foreground is receiving a high-line transfer of newly packaged ordnance from an ammunition ship.



ASSEMBLY—William Raffel (l) and Marshall Anderson of the Mechanical Division of the Engineering Department, are shown assembling a pallet that will be used to handle one of the missile cradles. Many of the pallets and cradles now being used in the fleet were built at NWC. Prototype cradles have been furnished to the aircraft carriers U. S. S. Oriskany and U. S. S. John F. Kennedy.



THERMOFORM PLASTIC—Marge McCoy, Code 5566 Engineering Technician, reviews sample of Cradle plastic shell formed by a vacuum thermoform process with John Machowsky (l) IRRP Project Manager for NWC, and F. A. Chenault.



BULLPUP CRADLES—Project personnel and Shop people who had a hand in fashioning the cradles and pallets for handling and stowing the Bullpup missile inspect their handiwork in the yard behind Michelson Laboratory. From left to right, they are: Mike Waldron, Don King, Charles Read, Walt Martin and James Wilkie.