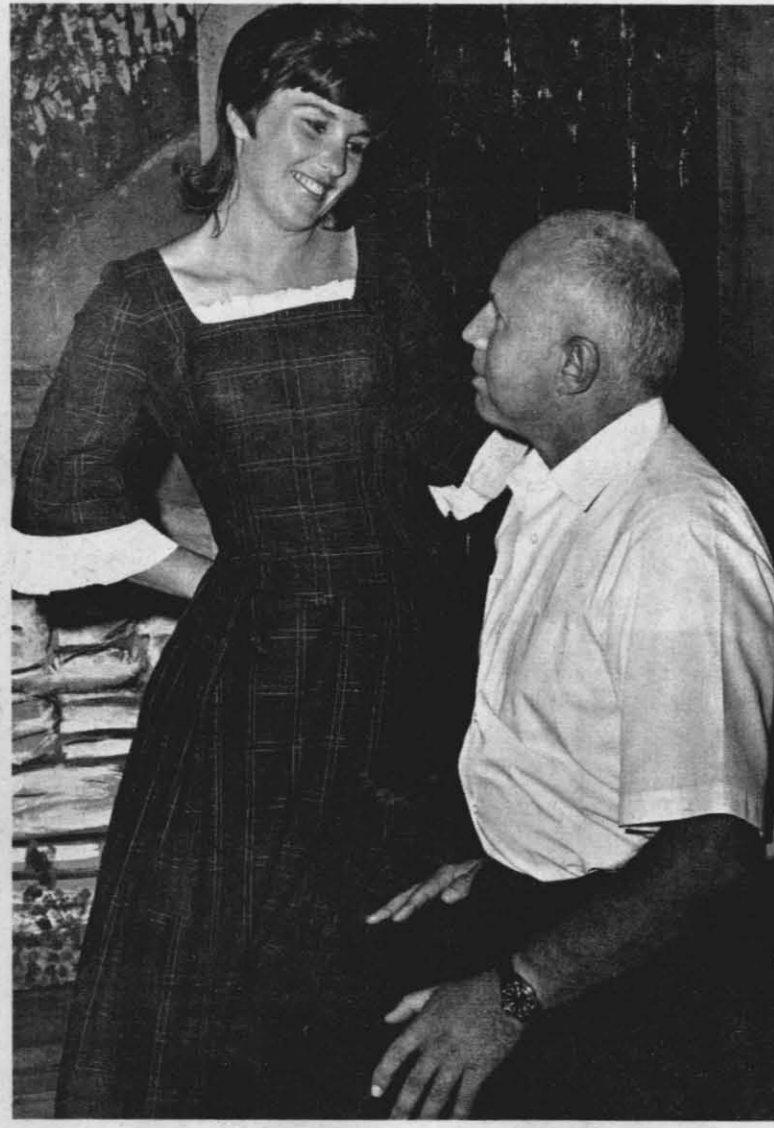


### Brigadoon Set for Lights



**A FINE, BRAWNY LAD**—Says Meg, portrayed by Kitty Lockwood, to Jeff, played by John Chatfield. The seductive Brigadoon lass is trying to win the favors of the New York adventurer in this scene at "the Brocky place," located in the mystical village of Brigadoon. The musical show opens tonight at Murray School auditorium at 8:15, with repeat performances tomorrow night, and again Thursday, Friday and Saturday, June 26, 27 and 28. Tickets for each performance are priced at \$2 for adults and \$1 for students and children. Tickets are interchangeable.



**PROMOTION TO LCDR.** — Lt. James W. Allen, Military Assistant in the Systems Development Department, is shown after being promoted to LCDr. in a ceremony held in the office of Capt. M. R. Etheridge, NWC Commander. Ann Allen is shown pinning the LCDr. leaf on Allen's lapel. The Allen's have been aboard since August of 1968. LCDr. Allen is a 1960 graduate of Annapolis.

### 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 (The Parents' Magazine ratings will eventually be superceded completely by the MPA ratings.)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** JUNE 20  
"COUNTERFEIT KILLER" (95 Min.)  
Jack Lord, Shirley Knight  
7:30 P.M.  
(Mystery) The star of "Hawaii Five-O" gets on the trail of millions in counterfeit currency in this thriller that takes place on the California waterfront. Five murders and phoney money! Fast-paced. \*\* (Adult)

**SATURDAY** JUNE 21  
—MATTINE—  
"EXCUSE MY DUST" (83 Min.)  
Red Skelton  
1:00 P.M.  
Shorts: "Boat Builders" (7 Min.)  
"Trader Tom" (No. 4, 13 Min.)  
—EVENING—  
"FANTASTIC VOYAGE" (100 Min.)  
Stephen Boyd, Raquel Welch  
7:30 P.M.  
(Science/Fiction) The miniature Detonator forces shrink men and equipment to micro size and enter the bloodstream of an important scientist to repair brain damage. An extraordinary, thrilling adventure plus Raquel! \*\* (A, Y)  
Short: "9th World Water Ski Champs" (11 Min.)

**SUNDAY-MONDAY** JUNE 22-23  
"MAINBAIL BROOKS" (102 Min.)  
Michael Pillard, Oliver Reed  
7:30 P.M.  
(Adventure/Comedy) Can a couple of POW's really walk a full grown elephant 100 miles through Germany to Bavaria—even with the help of an underground buddy with a blazing burp gun? \* (M)  
\*\* (A, Y, Mature)  
Short: "AFMR No. 646" (10 Min.)

**TUESDAY-WEDNESDAY** JUNE 24-25  
"THEY CAME TO ROB LAS VEGAS" (128 Min.)  
Gary Lockwood, Elke Sommer  
7:30 P.M.  
(Crime/Drama) There's no honor among thieves in this spine-tingling thriller about a crooked casino dealer who sets an elaborate plan to hijack an armored truck. \* (R)  
\*\* (A, M, Y)

**THURSDAY-FRIDAY** JUNE 26-27  
"SERGEANT RYKER" (86 Min.)  
Lee Marvin, Vera Miles  
7:30 P.M.  
(Drama) Who could prove the sergeant was sent on an intelligence mission behind enemy lines? The officer who allegedly issued his orders was dead! Was he guilty of treason as charged? A compelling story of war. \* (A, Y)  
Shorts: "Quack Shot" (7 Min.)  
"AFMR No. 647" (19 Min.)

### Officials List Pony/Colt League Team Standings

Table with columns for team names, wins, and losses for Pony-Colt League Standings, Pony 'A' Division, and Pony 'B' Division.



**FIRST HAIRCUT** — Young Paul Ira Pippen, looks pleased with himself after receiving his first haircut at the Station Barber Shop. Jim Green, 2nd from left, Barber Shop Manager, presents the child with a certificate commemorating the event. First haircuts are provided free of charge. Others in the photo are, from left to right, B. G. Pippen, Paul's father; Green; Louie Smith, assistant manager; Joe Perry, another barber; and Verna Pippen, Paul's mother.

### Council Holds Monthly Meeting Hashes Henry Park, UHF Repeat

Efforts by Channel 28 to put in a booster in the Palmdale area may allow it to be received on Laurel Mtn and relayed into the Indian Wells Valley. Mr. Simshauser, a visitor asked about the status of the Cable TV project and Mr. Ritchie, of the Ridgecrest Chamber of Commerce stated that a public hearing would be held on June 18 in the City Council Rooms.  
Mr. Meraz mentioned that the PTA will conduct a safety drive in the fall which will advocate the use of reflective materials on children's clothes, including such things as patches to be pasted on the arches of shoes. The Council agreed to hear a presentation on the subject as soon as the PTA is ready.  
Mr. Ritchie informed the Council of the Chamber's plans for the coming year in area promotions, etc. The Chamber also plans to hold a market survey this summer and will hold a retail seminar in the Fall.  
Mr. William Cooper asked that the Council investigate the proposed moving of the China Lake Day Nursery School, and the reason for the closure and alternative plans. Mr. Arnold (precincts 4 and 8) will chair a committee to check into this matter, he will be assisted by Mr. Cooper and Mrs. Schuyler.  
The next meeting of the Community Council will be on 8 July at 7:30 PM in the Community Center. The public is welcome.

At the regular monthly meeting of the China Lake Community Council, held June 10 at the Community Center, the following items of business were discussed.  
A report from the Clean-Up Campaign representative, Mr. Bergman, (Precinct 1, 2, and 10) stated that there is still paint to be obtained for fences. Various directors felt that there were definite improvements in their precincts due to the personal contacts made by each director with their constituents.  
Mr. Bergman also reported on the activities of the China Lake Park Commission. The commission is currently working on plans for a playground in the Desert Park area. Volunteer help and donations are being sought in order to develop such a play area.  
The next area to receive attention will be Henry Park, located between Groves and Hornet. Neighborhood interest and manpower was responsible for Davidove Field and will be the moving factor in the development of other park areas on the Center.

**UHF RELAY**  
Mr. Bob Young (Precinct 5 and 8) reported that attempts are being made to relay Channel 29 (CBS) from Bakersfield. When tests have been run to determine the best equipment needed to bring it in, the public will be advised of what is needed and a trial will be conducted. It is hoped that eventually Channel 23 will also be available.



A form with fields for 'From', 'TO', and a 'STAMP' box.

### Moorer Reappointed, Says SecNav

I am pleased to report that 1600 EDT today, President Nixon announced the reappointment of Admiral Thomas H. Moorer to another two-year term as the Chief of Naval Operations.  
I look forward to continuing a close working relationship with this most knowledgeable, experienced naval officer and congratulate all hands on the good fortune of retaining such a capable, highly respected and devoted leader.



John H. Chafee  
Secretary Of The Navy  
ADM. T. H. MOORER

### Emery New NWC Liaison Officer

John D. Emery, Head, Management Data Process Division, Central Staff, will be the NLO in Washington, DC, from June 23 to August 4.

Emery, who attended the University of California at Los Angeles, is also the President of the Indian Wells Valley Chapter of DPMA. In addition he is President of the Valley Riders ETI, Corral No. 56; a member of the Desert Empire Fair Advisory Council, and the President of the China Lake Community Council. He is a past President of the Indian Wells Valley United Fund Drive, and a past member of the Kern County Girl Scouts Financial Committee.

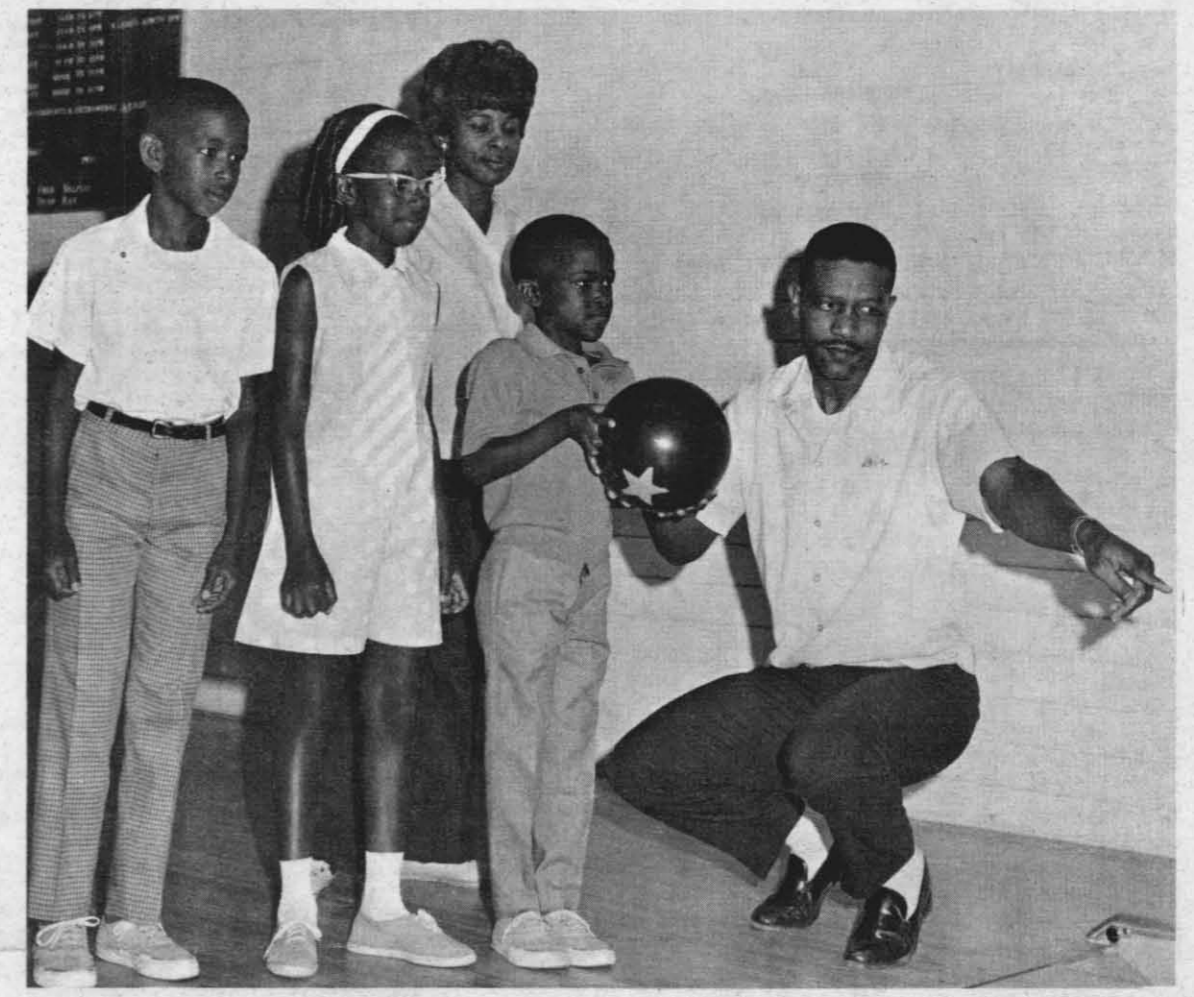
With all these activities Emery says he still has time for his hobbies of golf, bowling, and reading.

Emery served as head of Central Staff's Accounting Division during a tour at China Lake which ended in 1956. He returned to the Center in 1967. His responsibilities include providing automated Data Processing systems for management operations to Center Management, and making management recommendations.  
His experience in Data Processing ranges from EAM to large scale multi-programming equipment over a 30 year period. He has worked with North American Aviation, Hughes Aircraft, Lockheed Missile and Space Co., and as a special representative for IBM in Honolulu.  
Emery developed and installed the first mechanized payroll system at North American. He also participated in the installation of a microwave system for Data transmission between Rocketdyne and the Corporate Data Processing Center of North American.  
Emery's experience includes data processing assignments with accounting, warehousing inventory control, sales analysis, production control, and engineering drawing release systems.  
Other responsibilities in his many years of experience have included the operation of computing systems for management



Vol. XXIII, No. 24 Naval Weapons Center, China Lake, California Fri., June 20, 1969

### AC1 Stephenson Selected For Trip To Bakersfield



**PUT IT RIGHT THERE**—AC1 A. C. Stephenson, right, "Bluejacket of the Month" for June, instructs his children in the proper way to "spot" bowl. From left to right, they are: Lowell, 10 years old, Joni Jane, 8, and Darryl, 6. Stephenson's wife, Sallie Ann, a high average bowler in leagues on the Center, checks the proceedings.

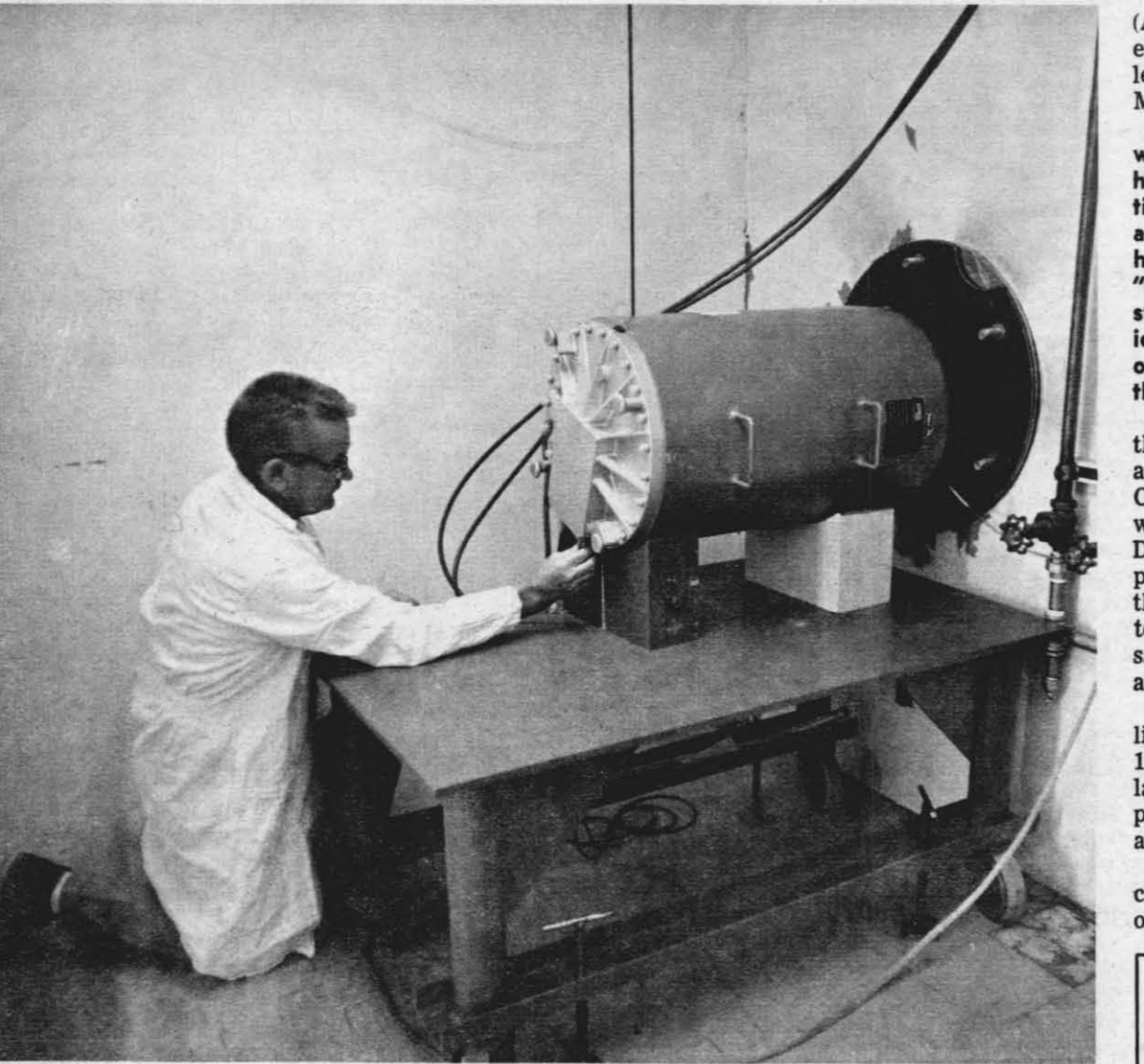
Air Controlman First Class (AC1) Augustus Cesar Stephenson, of NAF, has been selected as "Bluejacket of the Month," for the month of June.

Petty Officer Stephenson was chosen on the merits of his military appearance, initiative, achievement and dependability. The announcement of his selection reads, in part, "He has consistently demonstrated great pride in the service and devotion to duty, both of which are in keeping with the highest Naval standards."

Steve 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. In addition, he will 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.  
In addition to the honors already mentioned, Steve will be given a plaque from Special

As a result of having been chosen for this exclusive honor, Steve and his wife, Sallie Ann, will be treated to an all-expense paid weekend in Bakersfield by the Bakersfield Chamber of Commerce.  
The Stephensons 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 Steve will be interviewed.  
While in that city, Steve and his wife will be guests of The Caravan Inn, located at 1622 Union Avenue, where they will receive lodging and meals.  
Steve 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. In addition, he will 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.  
In addition to the honors already mentioned, Steve will be given a plaque from Special

Word was received this week that the Assistant Secretary of Navy for Installations and Logistics has signed the deed for the 106-acre parcel of land between Burroughs HS and China Lake Blvd. to be conveyed to the County of Kern.  
This culminates the efforts of many people over a number of years and should result in a major improvement of recreation in community service facilities in the Ridgecrest-China Lake area.



**X-RAY ANALYSIS**—William Jones, Code 4564 Test technician, is shown adjusting a 600,000-volt pulse field emission X-ray module that is used to analyze detonation characteristics in the initial explosion stage of charges that are set off in the new NWC Camera Barricade and Firing Chamber. This equipment is part of a battery of sophisticated instrumentation that is used to gather this kind of data. A brief description of the new facility is contained on pages 4 and 5 of this issue.

CHAPLAIN'S MESSAGE

Is There Life After Birth?

By Senior Chaplain Harold A. MacNeill



Some of our youth are wondering if there is life after birth? They are searching for an answer to this question. Is there a GENERATION GAP? "No," answers Youth, "there is a PEOPLE GAP!"

It has been impressed upon us that we must communicate. If we would only communicate, we could bridge the Generation Gap.

Nonsense! It is far more serious than that!

We have lost the ART of COMMUNICATION and the ART of LISTENING.

If, "McLuhanism" is correct in stating that the electronics revolution has displaced linear communication, then we must recapture the lost art of listening and communicating.

Delbert Earisman speaks of the kind of music that youth hears. "The music is not merely loud; it penetrates you. You hear it with your legs, your thighs, your belly and your bowels."

How can we communicate if it takes an orchestra to make a breakthrough? This is serious, for psychiatrists and psychologists report that persons unable to communicate, in frustration, turn to drugs.

A few years ago, the automobile was a mother or father substitute. The '69 with all the fixin's has lost its appeal — it's just wheels now.

This inability to recapture the lost art of listening and communicating is causing the NEW PROTEST. It is a protest against Mom and Dad's materialism.

Radios and Stereos, as well as cars, are said to be on the way out. There is a genuine fear of becoming "stereotypes" — people who stay with a stereo or radio and "spend too much time listening."

Life, youth claims, must be more creative than passively listening to a tube or polishing a car. Life must be creative and youth is ON THE MOVE.

New youth is moving away from Mom and Dad's world of competition to a world that they consider more life-fulfilling. They are offering themselves as workers in the neighborhood houses of the slums and ghettos.

This may be the NEW PROTESTERS answer to the question, "Is there life after birth?"

Kraft Elected President

Gary B. Kraft was elected president of the Fleet Reserve Association, Branch 95, at the June 11 meeting held in the clubhouse, 365 McIntire, China Lake.

Frank DeLeon was elected vice - president and Philip Leigh secretary - treasurer. Directors elected at the meeting are Don Billinger, Phillip Matthews, Chester Pope, Judge G. E. Thompson, and Verne Tracey.

The ladies' auxiliary also held an election with Lelia Parker emerging as President, Connie DeLeon as vice - president, Willa Matthews as secretary,

and Verna Wheeler as treasurer. The board of directors will consist of Mona Pope, Lorraine Porter, Pauline Road, Shirley Schneider, and the elected officers.

A joint installation will be held at the clubhouse Sunday, July 27, at 2 p.m., and will be followed by a potluck barbecue. The men will furnish steaks and their wives and daughters will supply the rest of the meal.

Judge Thompson and Verna Wheeler will travel to Barstow to officiate in the Barstow installation July 11, at the request of the Barstow branch.

PROMOTIONAL OPPORTUNITIES

Present Center employees are encouraged to apply for the positions listed below. Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

The vacancies listed below are effective from June 20 through June 27, 1969.

Safety Assistant, GS-01B-03 or 07, Code 22 — This position is that of Safety Assistant in the Safety Department under supervision of the Head, Safety Department. The incumbent is responsible for: development of an office safety program for the Center; the conducting of safety surveys of all office areas and elimination of unsafe conditions; accident investigation; safety meetings; administrative services of the Safety Department; management of safety equipment room; originating and developing the machine processing of accident statistics and other related duties.

Crater-Packer, WB-46021-08, Code 2598 — Packs, crates, straps and stencils material and equipment incident to shipment off station. This includes blocking, braces and sharing of heavy equipment and machinery onto and in railroad cars and motor trucks.

Supply Clerk (Typing), GS-3005-04, Code 258 — Processes receipts, issues and stock requisitions in coordination with supply data processing programs; and maintains liaison for follow-up, status and expediting with NWC departments, NAV and VX-5.

Purchasing Agent, GS-2020-05, Code 2521 — Duties involve purchase of material ranging from common use to technical items required in support of the research and development effort of the Naval Weapons Center.

Stockman, WB-69007-06, Code 2593 — Is responsible for and performs all work operations in a designated receiving, shipping or storage area in connection with physical receipt, storage, preservation and issuance of supplies. Receives, checks, stores, counts and assembles supplies of all kinds in accordance with established procedures and methods.

File applications with Carole Cadle, Personnel Bldg. Room 26, Ext. 71648.

Computer Programmer, GS-334-11, or 12, Code 1783 — Develop programming specifications for complete information systems by evaluating systems flow, selecting computing equipment for various types of processing and designating the programming language to be used. Coordinate the activities of programming personnel assigned to the projects by explaining the purpose, defining inter-relationships of programs within the system and providing advice concerning programming techniques. Conduct investigations to determine the effectiveness of current automated systems. Position requires extensive knowledge of computer systems and programming languages, and the ability to evaluate the requirements for automating various applications in order to develop a complete information system.

File application for the above with Sue Proselowicz, Bldg. 34, Rm. 28, Phone 71577. Clerk-DMT, GS-4, Code 4023 — Incumbent will perform secretarial duties for the Branch. Duties will include transcribing and typing correspondence and memoranda, travel orders, clearance requests, etc.; screening telephone and office callers; receiving and distributing incoming mail; and maintaining branch files.

Clerk-Typist, GS-4, Code 4053 — Incumbent will serve as Branch Secretary and will be responsible for the typing of official correspondence and memoranda; preparation of travel orders and stubs, filing, receives telephone and office callers, receives and distributes incoming mail and other duties as needed.

File applications for the above with June Chipp, Bldg. 34, Rm. 26, phone 72676.



PIRATE PARTY — Mrs. Fleschman's third grade class at Richmond School celebrated the end of the school year with a pirate theme party. Equipped with pirate's hats and individual costumes, the sturdy third-grade villains used treasure maps to hunt for buried treasure and feasted on hot dogs and various booty that was provided by the "captive" room mothers.

PLANE AND BUS SCHEDULE

Effective July 1, 1969 CHINA LAKE - INYOKERN - INTERNATIONAL AIRPORT

Table with columns: Flight No., Northbound (Daily) Leave LAX, Arrive Inyokern, Southbound (Daily) Leave Inyokern, Arrive LAX. Rows include flights 464, 463, 332, 333.

(NOTE: All flights stop briefly at Lancaster except 332/333 which stop briefly at Bakersfield.)

AIRPORT SHUTTLE BUS SCHEDULE — CHINA LAKE

Table with columns: Flight No., BOQ-A, Center, Adm. Bldg., Mich. Lab., Arrive Inyokern. Row includes flight 463.

Passenger transportation will be provided between Inyokern Airport and China Lake daily, Monday through Friday (except holidays) for morning and night flights.

Travelers using flights 332/333 and week-end departures should make prior arrangements for transportation to the airport through the Travel Branch, Code 8517, Ext. 71378 or 71321. For further information, please call the Travel Branch.

Sec. Laird Asks Full Support For Equal Opportunity Program

MEMORANDUM FOR ALL EMPLOYEES SUBJECT: Equal Employment Opportunity for Civilian Employees of the Department of Defense

I am pleased to take this opportunity to affirm the merits of our Equal Employment Opportunity Program in the Department of Defense. This program, which is based upon Presidential Executive Orders, assures all employees of the Federal Government that their working careers will be free from discrimination on account of race, color, religion, sex or national origin.

Although we have made some progress in this respect under past Presidential Executive Orders and equal employment opportunity programs, we must make a much greater effort in the months to come. The social implications of this program, and elementary fairness, require that a great deal be accomplished in a short time.

The affirmative action aspects of equal employment opportunity must include equal opportunity in recruitment, career development, progression, selection for supervision, awards and other recognition, and all other aspects of employment. The requirements of this effort will make demands upon the initiative and creativity of employees, first-line supervisors and all elements of management above them.

Consistent with our function of preserving and protecting freedom in the world, we have a parallel and supporting obligation to assure this nation that our actions result in beneficial social consequences. None of these consequences is more important than equal opportunity in a lifetime of employment with this Department. Proper administration of our program must necessarily include actions to remedy employment problems created in the past.

I shall require such development and achievement during my tenure as Secretary of Defense and will personally review our progress. We must produce solid results at every employment level consistent with the high standards of the Department of Defense.

Melvin R. Laird

Stott Receives Federal Woman's Award



FEDERAL WOMAN'S AWARD FINALIST— Captain M. R. Etheridge, NWC Commander, is shown presenting Miss Barbara Ann Stott a special award from the Federal Women's Award Board naming her as one of five finalists to represent the Navy for this high honor. Miss Stott, an employee of the Propulsion Development Department, is one

of the country's foremost authorities in the field of plastic bonded explosives. She has played a large role in the development of explosives used in the warheads of Sidewinder, Shrike, Sparrow, Tartar and others. Also in the picture are C. Douglas Lind, left, branch head, and Norman L. Rump, Division Head, at right.

China Lake Boat Club Lays Plans For Yard Sale

Residents of the Indian Wells Valley will be given an opportunity to turn unwanted items of all kinds into cash at a yard sale held by the China Lake Boat Club on Friday and Saturday, June 20 and 21.

The annual sale, which will be held at 355 McIntire on the Center, will enable residents of the local area to get rid of unwanted items or to purchase that hard - to - find item they might need.

Among the items for sale are: sports equipment, fishing and camping gear, household items, boating equipment, including complete boats and motors.

A percentage of the receipts for items sold will go to the boat club, according to the following schedule:

Ten per cent on items up to \$30; 5 per cent on items between \$30 and \$100, and 4 per cent on items above \$100. For more information, call 375-9088 or 763-73452.

Arrangements have been made for visitor admittance at the NWC main gate. The club also extends a cordial invitation to all boating and outdoor enthusiasts to attend any of the club meetings which are held on the second and fourth Thursday of each month at 7 p.m. and 6:30 p.m., respectively, at the address above.



ECOLOGY CLASS—The group of children above is part of a class of some 80 students who are participating in the Maturango Museum's summer school program that began June 16. Above, the class is viewing a display of Indian artifacts in the Museum. The class is being conducted by Janet Westbrook—The program was coordinated by Alice Dubin, Curator of the museum.

Camera Barricade Firing Facility

(Continued from Page 4)

Centers' Propulsion Development Department.

A number of Center personnel made significant contributions to the success of the facility. However, Robert G. S. "Bud" Sewell, Chairman of the NWC Warhead Research Committee, and Clarence Weiland, now retired, but who was then Executive Secretary of the committee are credited with overall planning. General architectural and engineering planning was done by Frederick V. Johnston, from an initial design generated by Gordon A. Greene, Code 4541.

Up to the present time, the facility has fulfilled expectations and has performed as expected. Already, this installation has enhanced the capability of the NWC Warhead Supporting Research (Surface Targets) Program.

The Camera Barricade and Firing Chamber has significantly reduced the cost of explosive firings and, at the same time, has noticeably improved the quality of data gathered.



Michael O. Maerz, Ensign, USNR, has reported a board of the Naval Weapons Center Corona Laboratories for duty.

Ens. Maerz, born in New York City, holds a BS degree in Electrical Engineering from Lehigh University, and was an associate engineer at IBM, Endicott, New York, before entering the Naval Service. He also was employed for a time as a systems engineer at Vitro Laboratories in Silver Springs, Md.

He was on the dean's list at college, and is interested in sports and music. Mr. Maerz is single, lives in Corona, and has been assigned duties as a Project Officer at Corona.

Stephenson Bluejacket Of Month

(Continued from Page 1)

Services signifying his recognition as "Bluejacket of the Month" and his portrait will be displayed in the Center Theater.

When interviewed, Stephenson stated that he likes being stationed at the Naval Weapons Center due to its proximity to the high Sierras where he and his family enjoy "roughing" it.

His favorite camping spot is in Kennedy Meadows, high above Nine-Mile Canyon.

Bowling is another hobby of the Stephensons. One of Steve's present goals is to get good enough to beat his wife, Sallie, "more often than she beats me, which is pretty often," he said.

In order to further his ambitions Steve works part time behind the desk at the China Lake Bowl. "I am hoping that being around the good bowlers who come there will rub off on me," he commented. "It's an advantageous place to be when I want to watch a particularly good bowler work out," he added.

Steve, a graduate of Campbell High School, in Newark, New Jersey, met Sallie Ann in Kingsville, Texas, which he now considers his home town. "I met her on a blind date that a friend had arranged," Steve remembered.

Steve and Sallie Ann have two boys and one girl. The boys are active in Little League and Cub Scouts, while the girl "pressures her daddy," Steve smiled.

When asked if the children had any special interests, Steve replied, "Hunting, fishing, hiking, camping, the whole outdoors bit. They really gobble it up," he answered.



HAIL AND FAREWELL — Buddy Deffes (r) President of the NWC Catholic Parish Council, extends a farewell handshake to Father Jude Senieur who was the Catholic Chaplain at the Center for the past few years. Fr. Jude is being transferred to BuPers and is being replaced by Father James J. Hogan, center, who comes to the Center from the Marine Recruit Training Center, Parris Island.

John Emery Gets Tap For Liaison Duty

(Continued from Page 1)

puter centers using remote devices for data reduction; and scientific computing and management applications. These were on-line systems with voice or hard copy response capability.

Emery was also the manager of the Operations Management Project of SHARE for three years, and on the Board of Directors, with collateral duties, as the SHARE representative to GUIDE, and joint IBM users' Advisory Group.

He is currently involved in helping to set up a new management information system for NWC.

The Rocketeer

Official Weekly Publication U. S. Naval Weapons Center China Lake, California

Capt. M. R. Etheridge, USN NWC Commander

"J." Bibby Public Affairs Officer

Jean Raber Associate Public Affairs Officer (Acting) Director of News Bureau

William P. Valente, Jr. Editor

Jack C. Lindsey Staff Writer

Lucille Edwards Editorial Assistant

PH1 Gary D. Bird, PH2 Delmer E. Hart, PH2 Michael F. Krause, AN Maurice Dias, Staff Photographers

DEADLINES: News Stories — Tuesday, 4:30 p.m. Photographs — 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



DIVINE SERVICES

Protestant (All-Faith Chapel)— Morning Worship—8:15 and 11 a.m. Sunday School—9:30 a.m., Chapel Announcements 1, 2, 3, 4 (Dorms 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.



OPENING CEREMONIES — Chaplain Aquinas Jack Smith, center, gives the invocation at the opening ceremonies held by the Little League, Saturday, June 14, at Diamond No. 4. Shown in the background are, left, Steve Hartwig, who gave the Little League Pledge, and Kevin Smith, right, who gave the Pledge of Allegiance. During the ceremonies the various team members filed past the stands in uniform, and sponsors were recognized and given a certificate of appreciation by the league. A special award was given to League Treasurer George Wright, "for six years of devoted service."

### Bowling Lanes See Hot Hands, Anniversary

On June 2, in the Supply Department Mixed League, Ted Carleton, shot a 517 for high men's series, and Gordon Beauchamp had high game with a 202. Mary Jane Clark led the distaff side with a 489 series and Betty Beauchamp, not to be outdone by her mate, shot high game for the night, a nice 175. The Alley Cats led the high game scoring with a 660, and the Two Wheelers fired a series of 1786 to lead the league in that department.

On June 9, The B.B.B.V. squad held a hot hand, shooting 1979, which included a 700 game. Both scores led the league that evening. Don Herrington fired a 233 and a 630 series to lead both of those departments and Pat McBratney hit a 469 series and Jean Gale rolled 210 to lead the ladies' scoring.

In the Koffee Klutchers League this past week The 3 D's and a P hit high game with an 846 and the Challengers took high series with a big 2370. Dale Lune had a 206 and a 190 on her way to a 537 series. Betty Larabee hit 211 and a 487.

#### Bowl Birthday

Tonight at 7 p.m., the China Lake Bowl will celebrate its 1st anniversary with a birthday celebration. Bowling will be free from 7 p.m. until closing and there will be a special match game between the Sands Bowl in Lancaster, and a team from China Lake.

Fred Dalpiaz, manager of the Bowl, announced that free coffee and cake will be served and trophies will be presented to bowlers who shot the season's high games at the new house.

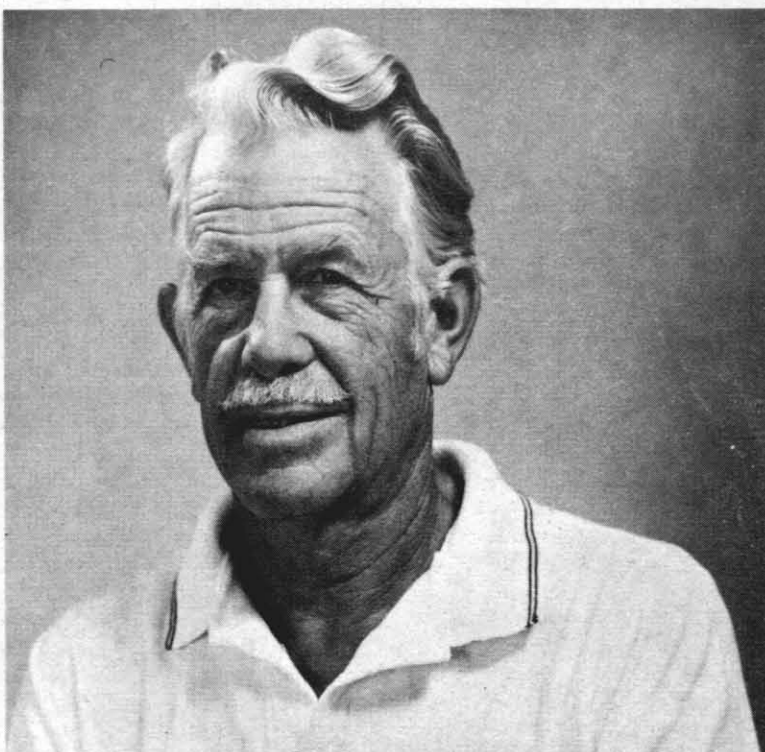
On the 19th and 20th of June, Lou Bellissimo will hold classes for bowlers at the China Lake Bowl. These classes will be from 9 a.m. to 12:30 p.m. both Thursday and Friday, and on Thursday evening from 6 to 9:30. However, the second class on Friday will be held from 2:30 to 6 due to the birthday celebration. A fee of \$5 will be charged and there are still some openings. For further information call Fred Dalpiaz, extension 72006 or 71791.

Wednesday evening saw Galloway pitch another shutout (ho-hum) in the evening's opener, defeating Genge 11 to 0. Frank Carson homered for Ace-TV in the third inning.

In the nightcap, Rick Clodt hit a homer in the fifth inning.

(Continued on Page 7)

### Athlete Of The Month



FRED HAGIST

Fred Hagist, 66 years old, winner of the China Lake Tennis Club's Men's Singles Championship, has been named "Athlete of the Month" for June. Fred defeated Jim Smith in the semifinals of the Tennis Club's Spring Tourney held Saturday, May 31, 6-3, 6-4 and then drubbed Don Boursford 6-4, 6-3 that same morning to win the title.

That afternoon Fred and his daughter, Joan Leipnik, outplayed Jim Smith and Rita Wack in 106-degree heat to add still another laurel to his crown by winning the Mixed Doubles championship in a hotly contested match 4-6, 6-3, 6-4.

In April of this year Hagist and Smith teamed up to win the "Pick-Your-Own-Partner" Men's Doubles championship.

Hagist is the oldest man at China Lake to win the distinction of being named "Athlete of the Month."

Fred has been playing tennis for 40 years. In 1929, a young girl who worked in the same office with him, gave him a tennis racquet. Fred, who was recovering from an infection which had poisoned his blood system, decided to learn to play tennis. Since taking up the sport, Fred said, "I've not had an illness, at least none that I can remember."

From that date until 1968, when he retired, Hagist managed to play tennis at least twice a week. Since his retirement he plays daily.

Born April 25, 1903, in Spokane, Washington, Hagist did not actively engage in sports, other than a little sandlot baseball. At the time he began playing tennis, Fred was a private secretary for the president of the Sperry Flour Company, a position he held until 1947.

From 1947 until 1962 Hagist was a feed supervisor in the San Joaquin Valley for Pillsbury Corporation. At that time Pillsbury "got out of the feed business," which left Fred out of work.

He then joined a large real estate firm as a color consultant for tracts of homes that the company was building in the San Francisco Bay area. "I only wish that I had learned of this work when I was a young man," he said. "It was a very satisfying occupation."

Fred feels that tennis is also very satisfying. "The game improves a person's mental outlook," he stated. "Especially if one plays often. It has helped me to not only keep my health, but to look at problems as they occur in a different light. And there's nothing like a fast game of competitive tennis to work off a person's aggressions," he observed.

Fred has three children who also play tennis. In addition to his daughter, Joan, he has another daughter, Gloria Metcalf, who plays club tennis in the Sacramento area.

His son, Fred Hagist, Jr., an engineer for the Getty Oil Co. in Bakersfield, is the former California Junior champion and former Northern California Men's Singles champion.

Fred and his wife, Esther, live in Ridgecrest Heights, just opposite the White Star Mine.

### Little League Starts 2nd Round

The first half of the Major League in the China Lake Little League ended with the Giants on top and the Red Sox, Tigers, and Yankees tied for second place.

The second half is now in progress and the Giants lead the league as of June 17. If a team other than the Giants win the second half of the season, then those two teams will meet during the week of July 8 to determine the League champion.

The Major League All-Stars will begin working out soon in preparation for the defense of their 1968 Area and District Championships.

|         | Won   | Lost  |
|---------|-------|-------|
| Giants  | 3 1/2 | 1 1/2 |
| Dodgers | 2     | 1     |
| Red Sox | 2     | 2     |
| Pirates | 2     | 2     |
| Tigers  | 1 1/2 | 1 1/2 |
| Yankees | 0     | 4     |

### Scouts Complete Work on Range Conservation Project Begun In January, '69

Boy Scouts of Troop 112, under the direction of Game Manager Bob Reeser and Tilly Chamness of NWC, recently completed work on a small game guzzler on the Center's North Range.

The project, which has been in progress since January of this year, required 155 hours to complete, from the planning stage to final completion.

A bird guzzler is a man-made watering center for game birds and resident small game animals. The construction is essentially a 900-gal. fiberglass tank which is buried in the ground and which contains an oval top that is situated just above ground level.

On one end there is an opening with bars across it. In use, the birds and small animals enter the opening and travel down a diagonal ramp to the water level. Water is supplied into the tank by rainfall.

A 20 x 30-ft. rubber apron is laid and bordered around the tank so that the rain can be caught and funnelled into the tank. In addition, the whole plot must be fenced to keep cattle and burros from trampling the tank and rubber apron.

A cover of limbs and brush is cut and placed over and around the tank for protection of the animals using the guzzler against predators.

Thus far 19 guzzlers of various designs have been constructed in this area. They are placed in locations where feed is available and yet water is some distance. In this way game birds and small animals can better utilize the best feed areas to keep healthy and multiply faster.

Troop 112, under the leadership of Mr. Bob Wilhelm, undertook the project in January as a long range service project. The organization will maintain the guzzler for a couple of years. In this way they will also be able to observe game usage and movements.

They have been working closely with Mrs. Tilly Chamness who is the conservation coordinator for NWC. Also they have worked under the advice and guidance of Mr. Bob Reeser, State District Game Manager.

Ten of the boys, Gary Evans, John Whittaker, Billy Miller, Tony Sichley, Robert Hinson, Greg Lane, Frank Cruz, Robbie Wilhelm, Riley Delacruz and Mike Sichley, earned a county conservation patch award by the Southern Sierra Council.

Others participating were Brad Eyre, Rick Wills, David Griffin, Timmy Sichley, Thomas Corbett, Donald Upson, Walter Yeakey, Mike Vernon-Cole, Jimmy Miller and Rick Soto.

### FIRE PREVENTION



IT'S A GUZZLER — Members of Boy Scout Troop 112 put the finishing touches on a Wildlife Guzzler for small game birds and small animals. The task, performed under the leadership of Bob Wilhelm, Troop Leader, took almost six months to complete.



BUILDING DIGITAL COMPUTER — Joe K. Rasmussen, left, and John B. Lyons, standing, employees of the Naval Weapons Center, Corona, help Mark Schock and Darrel Howard, both of Norco, get ready to start building a computer, the proposed project of Explorer Scout Troop 454. The troop, which specializes in electronics, consists of 24 high school students from Norco and Corona. The boys are hoping that the computer can be built with printed circuit boards on plug-in modules, and that when finished it will be able to add, subtract, multiply, and divide.

### 'Blue Mist' Back At Chaparral

"The Blue Mist," popular group from Barstow, is back at the Club Chaparral June 20. On June 21 "The Purple Majestic" will return. Centerites are invited to visit the Club Chaparral on either evening for fun and dancing.

The China Lake Bowl will be closed Monday, June 23, for resurfacing of lanes. Fred Dalpiaz, manager, announces they will reopen again for business at 11 a.m. on Tuesday, June 24.

### Aetna Agent At Community Center On June 27

The Aetna Insurance representative, Mr. Howard Keenan, will be at the Community Center next Friday, June 27, from 9 a.m. until 4 p.m.

### Staff Assistants Council Visits NWC Corona Labs

The Department Staff Assistants Council (DSAC) visited the Naval Weapons Center's Corona Laboratories facilities last Thursday, June 5, as guests of Codes 50 and 42, which are located in Corona.

Seventeen of the council from China Lake landed at the Ontario International Airport and were bussed to Corona, where they were welcomed by Cdr. R. E. Forbis, Officer in Charge. They visited the Electromechanical Division, the Fuze Development Division II, the Library, Auditorium, Print Shop, Environmental Lab, and Fuze Development Division I, before departing to Swan Lake Restaurant for lunch.

DSAC provides consultation to the Center management on proposed procedures and policies on many general and specific activities that cross Departmental lines, and are not easily handled at the Departmental level.

The visit to Corona acquainted them with the problems there, and a better understanding of how actions concerning both China Lake and Corona would affect the latter.

Those present in Corona for the visit were: George Craig, Code 1711; George Buben, Code 251; Loyal Viers, Code 251; Ellen LaFortune, Code 251; John Kleine, Code 3002; Quenton Dalton, Code 3069; Frances Parks, Code 35024; Eldon Williams, Code 4002; Stanton Cox, Code 40502; Herbert Hillard, Code 4540; and Weston Hofer, Code 4570.

Also in attendance were Alice Day, Code 65; Tilly Chamness, Code 7012; John Dowd, Code 841; Nils Wagenhals, Code 01; Val Barker, Code 1202; and Marie Parks, Code 30024.

Billy Litz substituting for Richard Neighbarger 42, and Stanley Reynolds 50, both of Corona, were hosts for the event.

### NAF Swim Party For New People

The Center Recruitment Welcoming Committee will hold a swim party at the Naval Air Facility Pool, Tuesday, June 24, for new professional employees of the Naval Weapons Center. Personnel for whom the event is being conducted will include summer employees, junior professionals, and permanent employees and their respective families or invited guests. Supervisors of new employees are also invited to attend.

Bread, cole slaw and potato salad will be furnished but guests are reminded to bring their own dinner service and main course.

Bar-B-Q's (fired up) will be available and drink concessions will also be open.

Those planning to attend must make their reservations no later than June 20. This can be done by contacting Joe Seibold, extension 72720; Dick Fulmer, extension 9412, or Pat Hall, extension 72877.

Rides will be furnished if needed and a donation of 50 cents per person will be collected at the door.

# Detonations Studied At Camera Barricade And Firing Facility

## Efficient, Responsive Facility Answers Research Requirements

Warhead applied research and development at the Naval Weapons Center, China Lake, has already provided the Armed Forces with effective warheads for Zuni, Sidewinder, Shrike, and Walleye.

Currently, the Center is involved in more than 30 projects aimed at the development of more effective, and more economical warheads throughout every stage of military operations.

The present emphasis on the total research and development effort for urgently needed non-nuclear high explosive warheads of many types, requires that the most modern test methods be used. However, when one considers that the entire detonation action—in a medium sized warhead (12 inches in length, for example) will take place in 40-millionths of a second and that the pressure in the detonation wave is over 3 million pounds per square inch, one can readily appreciate the technical difficulties involved in accurately measuring and observing such characteristics so that further study can be made and improved programs initiated.

At the Naval Weapons Center, the problem has been virtually eliminated by the development of the NWC Camera Barricade and Firing Chamber.

Essentially a research tool, the NWC Camera Barricade and Firing Chamber is a unique structure in which small charges can be fired and the results photographed at close range.

During a firing, the installation affords simultaneous exposure to high speed cameras, sensitive electronic instrumentation, and delicate test equipment. In this manner, an explosion can be "stopped in its tracks" for future study by Center technical personnel.

Although the firing chamber is designed to handle a limited charge at any one time (up to 10 pounds of TNT or equivalent), Engineers at NWC are

able to predict the performance of larger similar charges, if necessary, by extrapolating the data gleaned from the detonation characteristics of the smaller charges.

In addition, the Camera Barricade is designed so that it may also be used to photograph the gross behavior of larger charges (up to 200 pounds) that are generally fired in a "safe area" on the desert floor north of the facility.

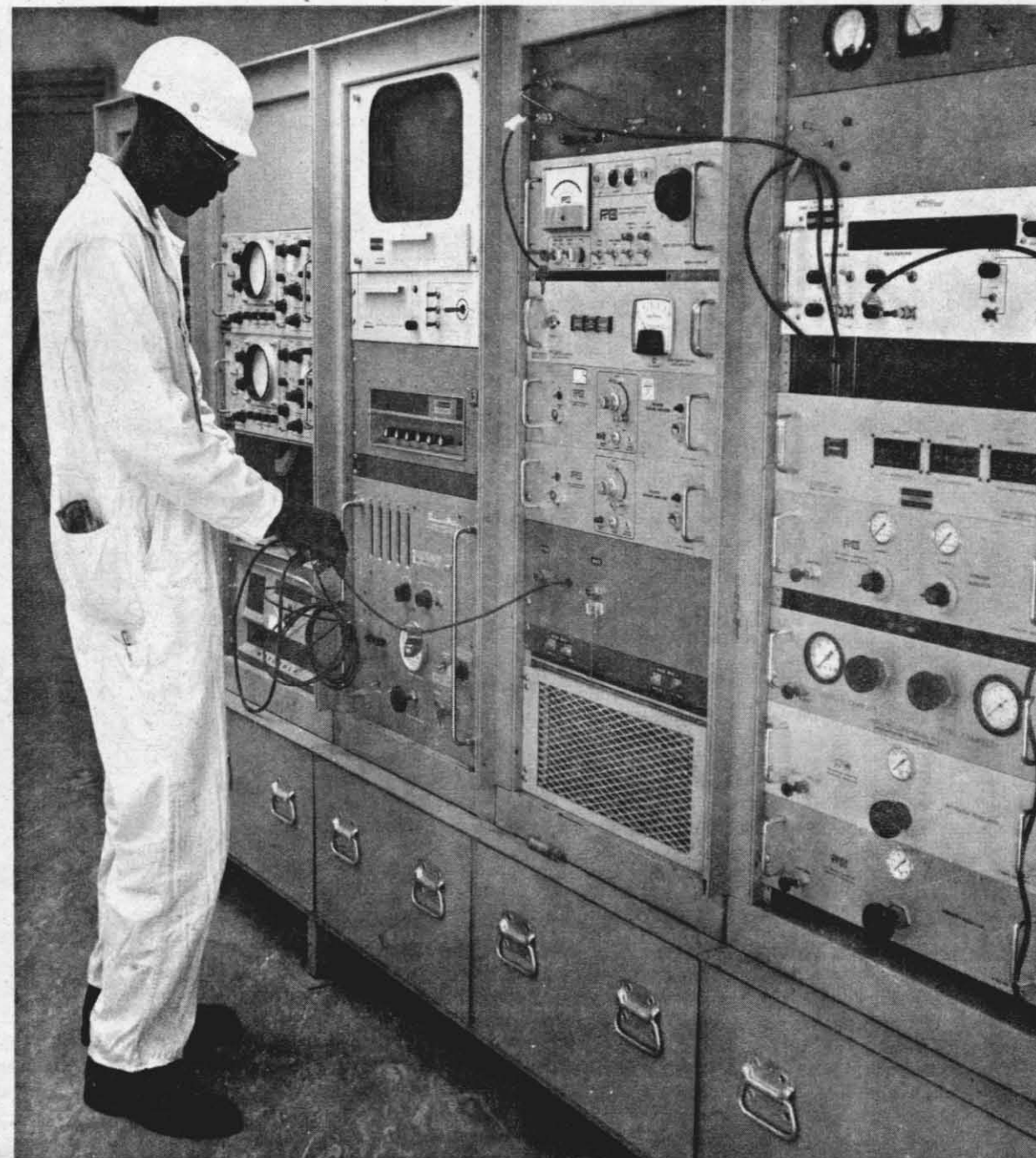
The new NWC Complex is a one-story, all-concrete cubicle surrounded on the west and south by the camera room and adjacent control room; on the east by an earth embankment; and on the north by an opening banked on both sides by a protective wing and an angled 45-degree retaining wall. The facility is designed for making, observing, and recording data (from firings made in the center of the firing chamber) of detonations of up to 10 pounds of TNT or equivalent, or for charges of as large as 200 pounds that are exploded 50 to 500 feet north of the firing chamber on the desert floor. Charges from 10 to 75 pounds are usually fired on the east embankment.

Inside the camera barricade, refrigerated air-conditioning controls the temperature and humidity, and dust is eliminated by the use of a system that provides positive pressure. Such a controlled environment is necessary to ensure proper and continued operation of the expensive and highly specialized cameras and other related equipment.

The steel reinforced concrete structure is also designed to guarantee the safe department of personnel who must fire charges that are electrically initiated.

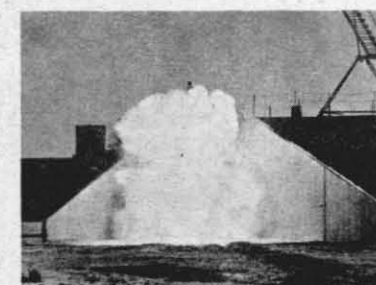
The NWC Camera Facility and Firing Chamber is operated by Code 4564, the Explosive Ordnance Evaluation Branch of the Warhead Division of the

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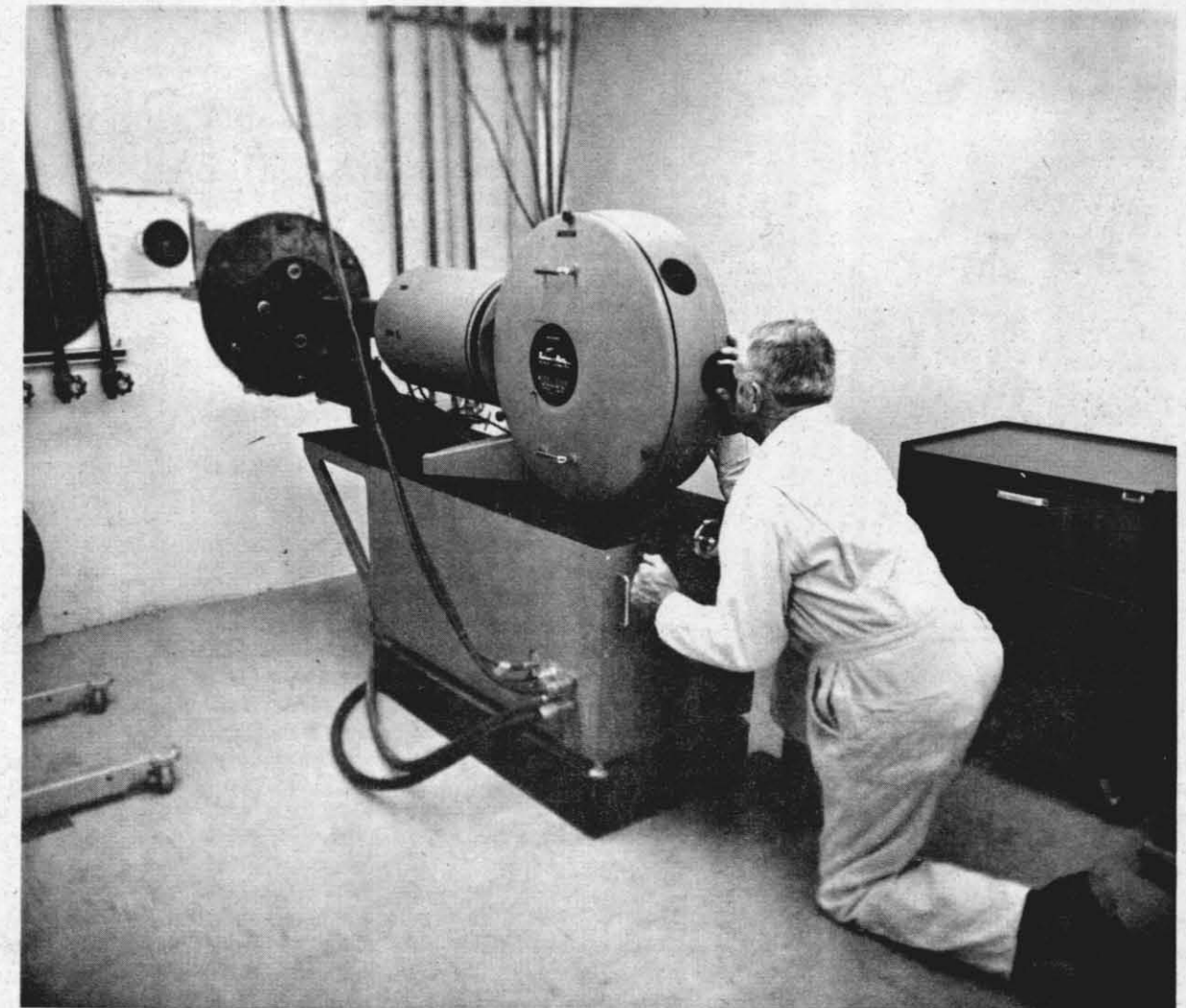


**CHECKING INSTRUMENTATION**—Ezra Scott checks the many phases of instrumentation that will be used to analyze detonations in the Firing Chamber such as the

one shown in the series at the right. The NWC Camera Barricade and Firing facility is one of the most effective tools for gathering this type of data in the world.

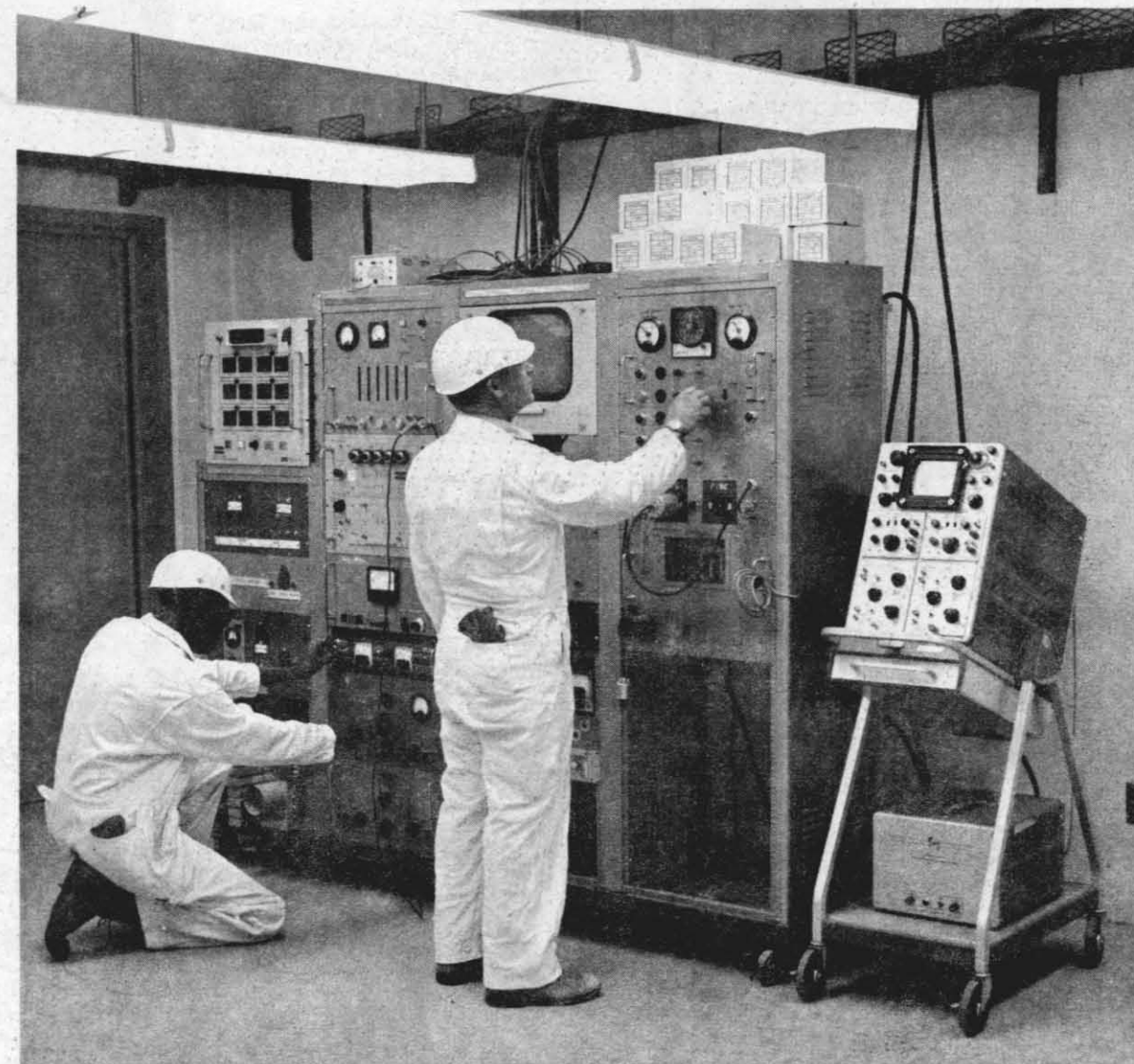


**DETONATION**—This series of photos was taken by a camera stationed outside the Firing Chamber. This type of data is also used to analyze detonation characteristics of explosions.



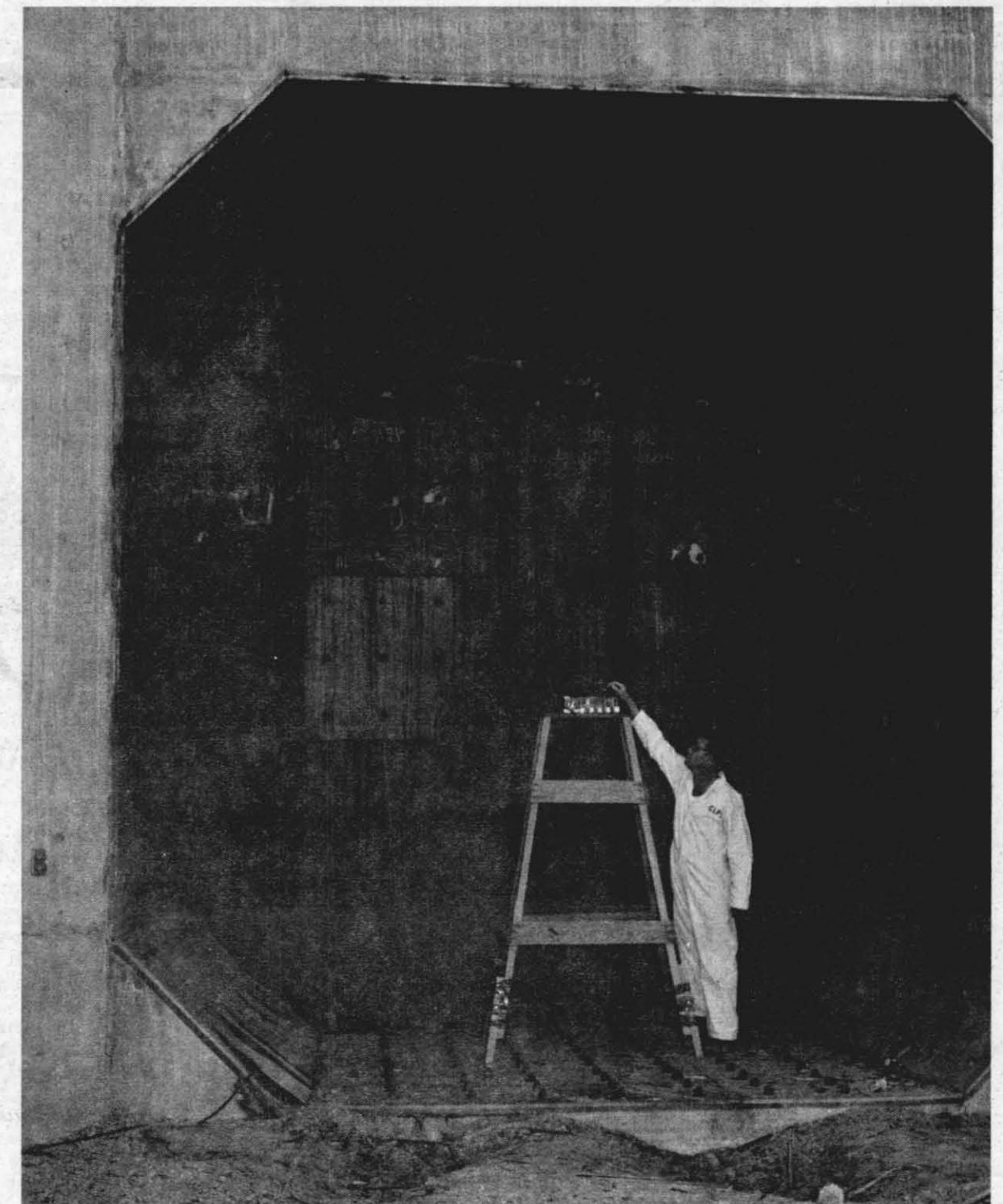
**CAMERA ADJUSTMENT**—Herb Paschke, Code 4564 Scientific Photographer, adjusts Beckman and Whitley Streak Camera in preparation for gathering photographic data

on an imminent test firing. This equipment is located in the camera room of the NWC Camera Barricade and Firing Chamber facility located on the North Range.



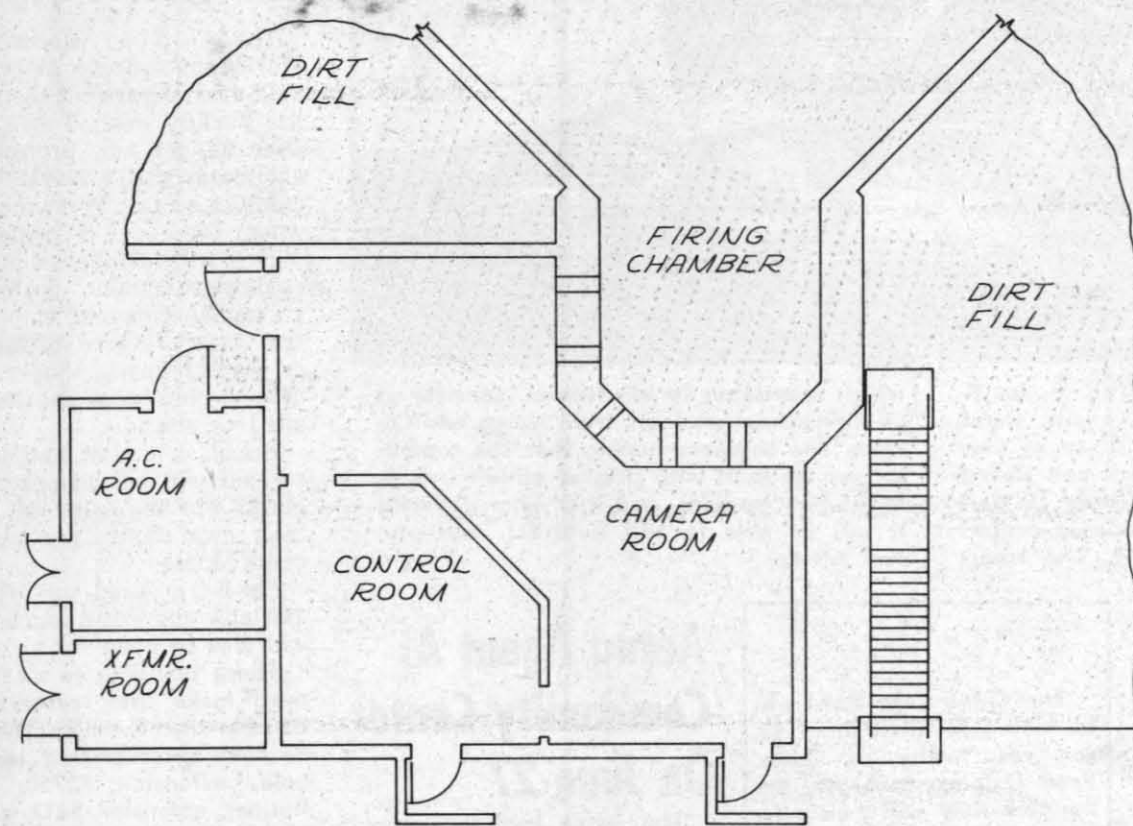
**LARGER CHARGE INSTRUMENTATION**—Ezra Scott (l) and Dave Jacoby, test technicians, check part of the instrumentation

that is used to analyze larger charge detonations which are tested outside the chamber, on the desert floor.



**SETTING THE CHARGE**—Claude Glover, Code 4564 test technician, makes a final check on a small charge that is to be initiated

for analysis in the Firing Chamber. Charges up to ten pounds are exploded and studied in this facility.



**LAYOUT OF FACILITY**—General architectural and engineering planning of the Camera Barricade and Firing Facility was done

by Frederick V. Johnston, from an initial design created by Gordon A. Greene of Code 4541. Code 4564 operates the facility.

