



PAGE FROM HISTORY — The above exhibit of early mining and blacksmith tools is one of many interesting features of the Eastern California Museum which is now housed in a new building in Independence, Cal., a neighboring town that is located just

a few miles north of China Lake. The facility, open every day from 10 a.m. until 5 p.m. also boasts one of the finest collections of Indian artifacts in the local area. Situated in the shadow of Kearsarge Peak, the museum is an inviting place to visit.

"Showboat" Tryouts February 3, 5

Pat Schwarzbach, instructor of the Bakersfield College Desert Campus Drama 27 course, has announced that tryouts for the Spring production, "Showboat," will be held Tuesday, February 3 and Thursday, February 5.

Mrs. Schwarzbach stated that all those wishing to audition for a lead role, or a singing role, be prepared to sing a solo. All women must wear high

heels and "street" make-up.

The popular Jerome Kern musical, revolving around a showboat plying the Mississippi River in the late 1800s, has been made into two different motion pictures, the latest starring Howard Keel, in the role of Ravenal, a riverboat gambler, and Kathryn Grayson as Magnolia, daughter of the showboat owner, Cap'n. Andy. Other principal roles are a

mulatto, Julie, played by Ava Gardner in the recent film, and a dance couple, portrayed by Marge and Gower Champion in the film.

There are many non-singing roles, as well as a large chorus, Mrs. Schwarzbach stated.

"Showboat" offers a wide variety of songs for the actors, including "Old Man River," "Cap'n. Andy," "Bill," "We Could Make Believe," "Can't Help Lovin' That Man of Mine," and many others.

Tryouts begin at 7 p.m. in the multi-purpose room of the Desert Campus, Bakersfield College.

Drew Looks . . .

(Continued from Page 1)

the only investigator to do so. Drew stated that the purpose of the investigation was to prove—or disprove—that life existed on the lunar surface. All of the studies here were pointed toward that goal.

According to Drew, the research by the various teams brought out many facts not before known, such as the age of the moon, (rocks studied were from 4.6 billion to 2.3 billion years old, and in much the same condition as they were when first formed), and other interesting points. For example, the origin of the moon was concluded not to be a part of the earth, and was probably "from a different origin than the earth," Drew said.

Drew stated that NWC is also slated to investigate samples that were collected by Apollo 12.

SHOWBOAT

NEW RATING PROCEDURES

Future ratings for motion pictures shown at the Center Theater will be based on two different types of ratings—the familiar Parents' Magazine ratings, and the new MPAA (Motion Picture Association of America) ratings. (The Parents' Magazine ratings will eventually be superseded completely by the MPAA ratings.)

The rating designations are:

MPAA*

(G)—General audiences.
(M)—Mature audiences, parents should use discretion.
(R)—Restricted, persons under 16 admitted only with parent or legal guardian.

PARENTS**

(A)—Adult
(Y)—Youths 13-17
(C)—Children 8-12
(M)—Mature for Y & C

FRIDAY JANUARY 30

"DAY OF ANGER" (109 Min.)
Lee Van Cleef, Christo Linder
7:30 P.M.

(Western) A western based on a German novel, filmed by Italians on location in Spain, with an American star.
Short: "One Froggy Evening" (7 Min.)

SATURDAY JANUARY 31

—MATINEE—
"TARZAN THE APE MAN" (82 Min.)
Denny Miller, Joanna Barnes
1:00 P.M.

Shorts: "A Gentleman's Gentleman" (7 Min.)
"Canadian Mounted" (No. 9, 13 Min.)

—EVENING—

"SECRET LIFE OF AN AMERICAN WIFE" (92 Min.)
Walter Matthau, Anne Jackson
7:30 P.M.

(Comedy/Drama) Sock-it-to-'em comedy about a neglected wife whose husband works for a real swingin' movie star. Anne's solution to the problem may be shocking but it solves the dilemma in a wild finish. This is a witty comment on dull suburbia that may appeal a few folks, but it's slick social satire! ** (Adult).
Short: "Rock-A-Bye Sinbad" (7 Min.)

★ NEW CURTAIN TIME ★

On February 1, the Center Theater will begin evening showings at 7 p.m. The change in time has been ordered to facilitate earlier completion of scheduled performances.

SUNDAY-MONDAY FEBRUARY 1-2

"LION IN WINTER" (134 Min.)
Peter O'Toole, Katharine Hepburn
7:00 P.M.

(Drama) This 12th century drama packs a dramatic wallop rare on film and offers a tour de force portrayal of Eleanor of Aquitaine by Katharine Hepburn that could rank with the classic performances. King Henry II (Peter O'Toole), surpasses his previous roles, an aging monarch trying to choose which of his sons to succeed him. ** (A, M, Y)

TUESDAY-WEDNESDAY FEBRUARY 3-4

"GOOD GUYS AND THE BAD GUYS" (90 Min.)
Robert Mitchum, George Kennedy, Tina Louise
7:00 P.M.

(Western/Comedy) Mitchum as the marshal of a frontier town where parking lots are replacing the hitching post, and George Kennedy, as a once-notorious outlaw now facing a Medicare future. Rip-roaring and often hysterical results make this one of the best comedy-westerns in some time. ** (A, Y, M, C)
Shorts: "Gee Whizz" (7 Min.)
"Shutter Bugged Cat" (7 Min.)

THURSDAY-FRIDAY FEBRUARY 5-6

"SECRET WORLD" (94 Min.)
Jacqueline Bisset, Gizele Pascal
7:00 P.M.

(Drama) A wistful heartbreaking tale of a withdrawn French orphan boy who lives in a world of macabre fantasies until he is befriended by an English beauty. * (M)
** (A, M, Y).
Short: "Island Empire" (18 Min.)



NEW WHIRLY BIRD PILOT—Reporting for duty with AIRTEVRON FIVE, Maj. Benny D. Rinehart, a Marine helicopter pilot, comes to China Lake following duty with Marine Observation Group Two in Viet Nam. Maj. Rinehart joined the Marines in 1955 and earned his wings through the NAVCAD program. He was instrumental in introducing the new AH-1G helicopter into Marine use in Vietnam during his tour there. He and his wife, Barbara, have four children: Linda 10; Worth 7; Benny, Jr. 3; and Elizabeth 2. The family lives at 327 Bogue Circle in the Center.

Paychecks Now Show Increase In Deductions

Civilian paychecks distributed today reflect the increased deductions made for the Civil Service Retirement Fund as well as higher health insurance premium rates.

As a result of the Civil Service Retirement amendments of 1969, the deduction for contribution to the Civil Service Retirement Fund is increased from 6½ per cent to 7 per cent of an employee's basic pay.

Health insurance premium rates for the Government-wide Service Benefit Plan (Blue Cross/Blue Shield) and the Indemnity Plan (Aetna) as well as certain other Plans participating in the Federal Employees Health Benefits Program have been increased. The new premium rates are shown on the back cover of individual Plan brochures.

The increased deduction for the retirement fund and the increased health insurance premium rates are reflected starting with today's paychecks. Also reflected in today's paychecks will be payroll deductions authorized for charitable contributions made during the Combined Federal Campaign.



From _____

TO _____

STAMP _____



A SAMPLE OF LUNAR DUST as seen under 4000X magnification is revealed to be a collection of microscopic glass beads and pieces of shattered crystalline material (large rock-like objects) that have been formed over the years from lunar basalts. The large oblong shape on the right and the round object on the left were found to be common shapes. According to investigators, they

were formed when meteorites impacted on the lunar surface, spraying liquid rock, which melted from the heat of the collision. More than 125 photographs were made of the samples by Charles M. Drew, of the Chemistry Division, NWC Research Dept., Joseph E. Thomas and Reba Ward, through the Scanning Electron Microscope housed in Michelson Laboratory.

Vol. XXIV, No. 4 Naval Weapons Center, China Lake, California Fri., Jan. 30, 1970

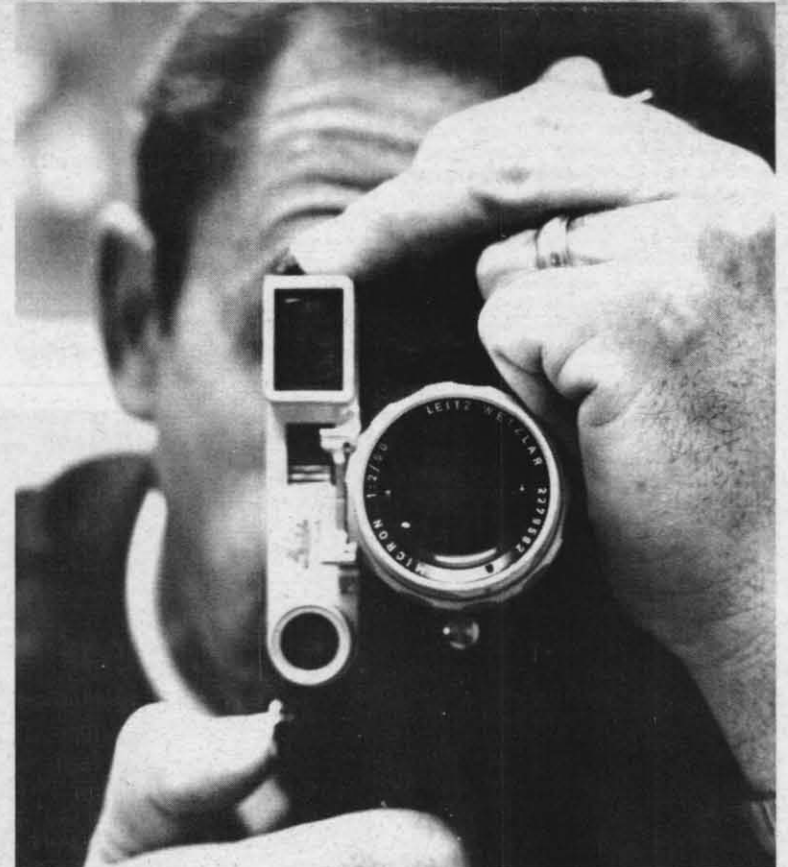
Feb. 4 Deadline Set for Summer Exam Applications

Eligible students who wish to apply for the final Summer Employment Examination, which will be administered nationwide on March 14, have until February 4 to do so. Applications postmarked after February 4 will not be accepted by the Civil Service Commission.

Students who choose to use their score from the 1969 examination instead of retaking the test must also update their file with the Civil Service Commission by February 4.

Students who will complete their sophomore year by June 1970 and who have a 3.5 g.p.a. in any major or a 3.0 g.p.a. if they are majoring in engineering, physics or chemistry, are eligible to take the exam under the grade point provision.

Further information and forms may be obtained from the Employment Division, Building 34, or by calling the Summer Employment Coordinator, Extension 72217.



HOLD IT!—Many of the images that have been used to prepare briefings for NWC management and project engineers by TID's Presentation Division have passed through the lenses of Bill Fekkether's cameras. The above photo shows Bill as most people usually see him. For a further look at where he works, see pages 4 and 5.

CofC Plans Silver Anniversary

Capt. M. R. Etheridge, Center Commander, will be the Keynote Speaker at the Ridgecrest Chamber of Commerce Silver Anniversary Installation, being held tomorrow night at the Elks Lodge.

According to Al Klassen, President-Elect, the affair will commence at 6 p.m. with a cocktail hour, and conclude with dancing to the music of The Tempos.

Tickets for the affair, priced at \$6, may be purchased from the Chamber office, 201 Panamint St., in Ridgecrest, or from any board of directors.

NWC Probes Lunar Rocks

Charles Drew Gets Inside Look at Lunar Particles

One hundred fifty six investigators who were recently involved in NASA's Lunar Samples Analyses Project, met January 5 through 8 in Houston, Texas, to discuss conclusions that were reached as a result of their combined investigations.

Principal among these was Charles M. Drew, of NWC, a chemist in the Research Department, and operator of the unique Scanning Electron Microscope, located in Michelson Laboratory.

The conclusion that seemed to dominate the gathering, which was composed of researchers who had examined the samples from every possible aspect, was that the Apollo 11 "moon rocks" did not show any evidence that living organisms had ever existed on the lunar surface, or that they could ever be sustained naturally in that atmosphere.

According to Drew, the group learned that the lunar surface is covered by a deep layer of broken or shattered material consisting of dust and rocks which form a loose layer called the lunar regalis. This layer—as measured by crater studies—is now known to cover the marinas (seas) to a depth varying from 1 to 30 meters, and averaging 10 meters.

The fine material is composed mostly of debris formed from the lunar basaltic material by countless eons of meteor impacts on the moon surface. The heat of collision between the lunar surface and the meteorite causes a flash melting of the basalt and produces a fine spray of molten material.

Many round, oblong and misshapen glass beads are common throughout the regalis material and form part of the breccia.

The rock studied at NWC, Drew stated, was an agglomerate composed of such mater-

ial. Its outer surface on one side had several minute craters formed by high velocity meteorites. The walls lining these craters were covered by a glassy material caused by the sudden heating after impact.

Gasses which were formed during the rapid heating caused bubbling of the glassy material.

Principal investigator of the project at NWC was Dr. Bartholomew Nagy of the University of Arizona. Also working with Nagy and Drew were Dr. Harold Urey, Nobel Prize-winner, who co-authored the paper with Drew which they presented at Houston, Joseph E. Thomas, Mrs. Reba Ward and Dr. William S. McEwan, Head of the Chemistry Division of the Research Department at NWC.

Drew and his team took more than 125 photographs of the material using the Center's Scanning Electron Microscope. For the tests conducted here, Dr. Nagy brought to the station one "moon rock" weighing approximately three grams, and one gram of fine lunar dust. The value of the material, set by NASA, is \$1 million per gram. (He also took them back again!)

During the conference in Houston, Drew presented the photographs taken at NWC in three-dimensional projection—

(Continued on Page 8)

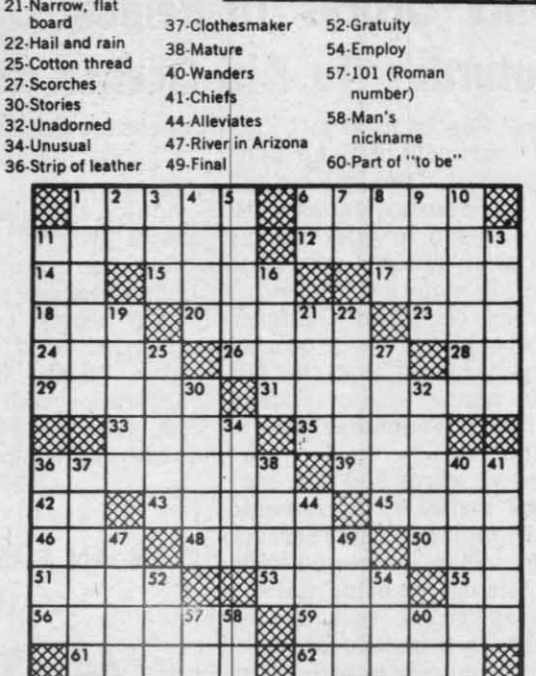
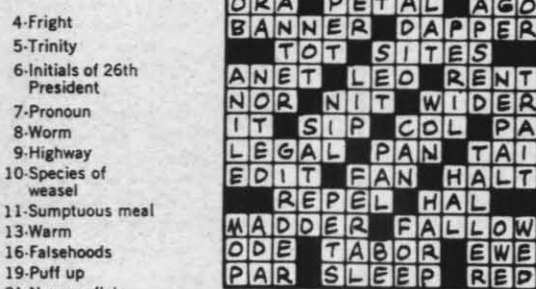
CROSSWORD PUZZLE

ACROSS

- 1-Propulsion
- 6-At that place
- 11-More obese
- 12-Vacation spot
- 14-Printer's measure
- 15-Go by water
- 17-Identical
- 18-Mature
- 20-Shore birds
- 23-Plunge
- 24-Trade for money
- 26-Transactions
- 28-Symbol for nickel
- 29-Characteristic
- 31-Saturated
- 33-Former Russian ruler
- 35-Cure
- 36-Pertaining to the stars
- 39-Rubbish
- 42-Symbol for tantalum
- 43-Weird
- 45-Location
- 46-Outfit
- 48-Part of flower
- 50-New Deal agency (abbr.)
- 51-Landed
- 53-Brother of Jacob
- 55-Paid notice
- 56-Protective organization
- 59-Compositions
- 61-Swift
- 62-Stalks

DOWN

- 1-Peril
- 2-Football position (abbr.)
- 3-Possessive pronoun



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CHAPLAIN'S MESSAGE

They Really Believed Us

Senior Chaplain Harold A. MacNeil



Our youth go away to college and return home changed. There is a "gap" between the folks on the home front and the student, a value gap. Clothes that were meticulously cared for in Junior High and High School are now shabby and grooming is unimportant. What is the message? What are they exposed to at college?

For the first time they may be exposed to the ragged edge of what is termed "developed." Other countries invested 9.6 billion dollars in latin America between 1950 and 1961, and this paid back 13.4 billion dollars. This is a fine return and a good investment. For this system to work, the work force of the "underdeveloped" must ride to work in broken-down buses, live in tin shacks in shanty town and exist on a poverty wage. Germaine Tillon, the French expert on Algeria says, "Underdeveloped does not mean that they have failed to rise; it means they have become the under-part of the developed society!"

Young people are disturbed by the poverty and the hunger in the world. They see their parents sending off the monthly check to a Mutual Fund and if they ask any questions they are told, "You better bet that this Fund pays off or you won't be at that high-fallutin college!"

They are reading Archbishop Helder Camara of Brazil who writes, "When you are born and brought up in Buenos Aires (read your city) it is not easy to understand exactly what is meant by the subhuman condition of life. Perhaps that seems like an empty expression of demagogic exaggeration; but when you live in Recife, five minutes away from any place we happen to be, it is possible to see with your own eyes and touch with your own hands the subhuman condition of life.

Imagine a person who lives in a house which does not deserve the name of a house, who is dressed in clothes which do not deserve to be called clothes, who has no food and lacks a minimum of conditions for education and work . . . It is evident that this creature does not cease to be a human creature but is in such a subhuman level that he resembles a cactus more than a son of God.

When you live at such a level, intelligence and liberty are luxuries . . . You cannot imagine to what point the heritage of poverty leaves marks on the human creature. Marks of severity and fatalism."

Is it possible that in synagogues, churches, schools, service clubs and youth organizations we have talked to our youth about a concern for others, and now we are learning that they really believed us?

STATION LIBRARY LISTS NEW BOOKS

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

Fiction
Ball—Miss One Thousand Spring Blossoms.
Black—The Cold Jungle.
Du Maurier—The House on the Strand.
Gurney—The "F" Certificate.
Vance—Emphyrio.

Non-Fiction
Abernathy—The Advocate.
Ali—The New Revolutionaries.

Blumenau—Creative Design in Wall Hangings.
Efrom—Exploring Modern Physics.
Crooks—Contemporary Arithmetic.
Horne—To Loose a Battle.
Hoyt—The Peabody Influence.
Tully—Super Spies.
Winick—The New People.
Guide to Western Horseback Riding.
Caidin—Flying Forts.

The Rocketeer

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NWC Commander

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PH3 L. H. Detweiler
Staff Photographers

DEADLINES:
News Stories Tuesday, 4:30 p.m.
Photographs Tuesday, 11:30 a.m.

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Phones 71354, 71655, 72082



DIVINE SERVICES

Protestant (All-Faith Chapel)—
Morning Worship—9:50 a.m.
Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant.
Thursday—Service at 5:00 p.m. (Organ Prelude at 4:45 p.m.)

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

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

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

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

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

PROMOTIONAL OPPORTUNITIES

Employees are encouraged to apply for the positions listed below. Current applications (SF-171) or Standard Form 58 bringing your work history up-to-date should be forwarded as described below. The fact that positions are advertised here does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and most recent previous supervisor. Selection shall be made without discrimination for any non-merit reason and without favoritism based on personal relationships or patronage.

The vacancies listed below are effective from 30 January to 6 February 1970.

Water Systems Controlman, JD No. 261, Aml, Code 70452—Duties are to provide instructions to, and surveillance of, pump operations, well operations, reservoir levels, pressures, valve positions, etc., as is indicated on the central control panel. Maintains log operations; takes readings of percentage of chlorine in water and takes samples for other analysis as necessary. **Minimum Qualification Requirements:** Rating will be on the basis of the appropriate J-Element Standard in accordance with the CSC Handbook X-118C. **Job Relevant Criteria:** Experience in the operation or control of a water supply system.

Helper (General), JD No. 146, Code 70451—Assists journeyman as required. Keeps journeymen supplied with tools and work materials and assists journeymen in performing work. Performs simpler elements of the trade alone, including the use of journeymen's tools, etc. **Minimum Qualification Requirements:** Rating will be on the basis of the appropriate J-Element Standard in accordance with the CSC Handbook X-118C. **Advancement Potential:** Journeyman level.

Cement Finisher, JD No. 178, Code 70415—Finishes concrete and similar materials to construct floors, walls, streets, sidewalks, driveways, columns, machinery or building foundations, and other structures on Station. **Minimum Qualification Requirements:** Rating will be on the basis of the appropriate J-Element Standard in accordance with the CSC Handbook X-118C.

File applications and Supplemental Rating Forms with Dora Childers, Code 657, Bldg. 34, Rm. 32, phone 71393.

Statistical Clerk, GS-1531 or Math Aid GS-1521, GS-5/4, WAE Code 5523—Prepares test and statistical data for analysis by engineers and program personnel. Makes appropriate computations after data has been collected. Prepares various charts, graphs and summary sheets for test evaluation purposes. Assists in the preparation including typing, of formal program and firing reports. **Qualifications:** Applicant must meet general and specialized experience requirements outlined in CSC Qualifications Handbook X-118 for one of the series listed above. **Job Relevant Criteria:** Demonstrated capacity for detail work. Experience in using simple math formulas. Typing ability. **Advancement Potential:** GS-4 level.

File above applications with Pat Gault, Bldg. 34, Rm. 34, phone 71514.

Clerk-Dictating Machine Transcriber, GS-316/3 or GS-4, PD No. 170077, Code 7038—This position is in the Planning and Specifications Branch, Engineering Division, Public Works Department. The incumbent types and edits contract specifications, prepares correspondence and technical reports. It is required that the incumbent be able to edit as she works in order to accurately type from rough handwritten copy directly into completed form. **Minimum Qualification Requirements:** A) One year of appropriate experience or, B) education and/or experience as allowable in X-118 Series GS-316-3. A) Two years appropriate experience or, B) education and/or experience as allowable in X-118, Series GS-316 for GS-04 level. **Job Relevant Criteria:** Have a working knowledge of engineering terminology and abbreviations. **Advancement Potential:** GS-4.

File applications with Dora Childers, Code 657, Rm. 32, phone 71393.
Helper, Motion Picture Film Processor, JD No. 11, WP-39901-4, Code 3032—Assists journeymen in the operation of continuous motion picture film developing machines and associated equipment for the processing of black and white color film. **Minimum Qualification Requirements:** J-Element Standards. **Job Relevant Criteria:** Some photography and/or darkroom experience desired, but not essential. **Advancement Potential:** Possible advancement to Motion Picture Film Processor.
Clerk-Stenographer, PD No. 6930111, GS-312-4, Code 3033—Temporary Appointment to provide necessary secretarial, stenographic and clerical services to the Associate Technical Coordinator for the Associated Aeronautics Laboratories, Inc./CDC contract. **Duty Station:** will be in the AASLI/CDC Building at Inyokern Rd., Ridgecrest, Calif. Duties include shorthand recording of conferences of a technical nature, transcribing these and letters and

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(Continued on Page 7)



PROCEEDS TO NAVY RELIEF—Profits from the ice cream social were given to the local Navy Relief Society last week by the Protestant Women of the Chapel. Mrs. R. W. Murphy, chairman of the social hands the \$100 check to Mrs. Jack H. Robcke, Chairman of Volunteer Women, Navy Relief Society, during ceremonies attended by Chaplain Harold A. MacNeill, executive secretary of NRS, and Mrs. C. J. Renne, president of the Protestant Women of the Chapel.

PTA Studies Local Issues

Study groups, under the direction of Mrs. Barbara Manning, Director of Parent and Family Life for the China Lake Elementary PTA, have been meeting in various homes over the past few months to discuss issues of mutual concern to the school, the parents and their children.

One recent study, led by Mrs. Jerry Barber, dealt with the procedures for screening preschoolers for placement in an "enriched" kindergarten or in regular kindergarten. It was explained that a child is not placed in the enriched kindergarten because he is considered slow, but because he needs an extra year in which to mature. Various responses, noted during the screening process, indicate the developmental maturity of the child. If physical and mental maturity does not correlate with chronological age, then the child needs special placement where extra help can be given. Poor performance and a poor

attitude at school may indicate that a child has been placed at the wrong grade level. These are the kinds of issues discussed by the small study groups under the guidance of the China Lake PTA. Mrs. Barber has been assisted by Bill Stokes, principal of Desert Park School, during the question and answer periods following the presentation.

Topics suggested for future study groups are: sex education, drugs, report cards versus another type of grading, discipline in classrooms, and cumulative folders, reports Mrs. Margaret Freeman, PTA publicity chairman.

China Lake residents who are interested in attending a study group or interested in hosting one in their home may phone Mrs. Manning at 446-6243. There are teachers and administrators who are very interested in these subjects and who are willing to attend or to lead these meetings.



RECEIVES COMMENDATION—Lt. J. T. Lewis (I), Administrative Officer at the Center Dispensary, receives farewell wishes from Capt. G. W. Jauchler, NWC Medical Officer, during ceremonies held in the Commander's Office last week. The Commander, Capt. M. R. Etheridge, presented Lt. Lewis with a letter of commendation for his outstanding service while attached to this command. Lt. Lewis left last week to attend the Amphibious Warfare Course at the Marine Corps Development and Education Command.

Oasis Garden Club's Third Conservation Program Begins

The third in a series of educational conservation programs sponsored by the Oasis Garden Club of the Indian Wells Valley got underway this week with presentations at the Inyokern School and at the Seventh Day Adventist School in Ridgecrest.

Conservation at NWC

Through special arrangements this program, entitled "Natural Resource Management at the Naval Weapons Center," will be given at the schools during the next three months by Mrs. Tilly C. Chamness of the Center's Public Works Department. Mrs. Chamness, who serves as Coordinator for Natural Resource Management for the Navy's million-acre holdings, will tell about the Center's programs for the management and conservation of all natural resources on its lands.

Major natural resources described and illustrated in the program include pre-historic and historic sites of outstanding value, wildlife, plantlife, scenic beauty of the Center's north range, and the unique ecosystem of the High Desert.

Roadrunner Life

One special feature of the presentation is a series of slides showing the family life of the roadrunner, including a 25-day record of the nest of this colorful desert bird following development of a newly-hatched chick until the time it left the nest.

Another bird story—that of a family of Costa Hummingbirds high on the north range—climaxes the conservation program. Incubation, hatching and first flights of two tiny hummingbirds were recorded during every spare hour of daylight last summer from May 30th through July 8th. Location of the nest in a rocky canyon high on the range was just an added challenge, according to Mrs. Chamness' description of recording the life of the hummingbirds.

Documentation

This program is the result of many days of field work done by two Center employees: Robert F. Barling, professional architect of the Public Works Department and Mrs. Chamness, who collaborated on outdoor and nature photography with their personal photographic equipment during leisure hours to build an impressive array of photos and slides of the desert. Slides from this large collection were selected by the team to illustrate NWC's natural resources conservation programs. Their program is an ever-growing documentation of the desert environment commented Mrs. Chamness in describing their avocational project.

The collaborators plan to publish some of the unusual material they collect and record during off-duty hours.

The programs, each an hour long, will be given in the following order: February 3, 4, 5, 10, and 11, 9 a.m., at the James Monroe School, Ridgecrest; February 17, 18, and 19, 9:30 a.m., at St. Ann's Catholic School, Ridgecrest; March 3 and 4, at 9 a.m. and 10 a.m. at Trona Elementary School, Trona; March 10, at 8:45 a.m., 10 a.m., and 1:20 p.m., at Murray School, Room 62, China Lake; April 21, 8:20 a.m., and 1:20 p.m., at Murray School Cafeteria, China Lake.

The first in the series of educational conservation programs given in the local schools about the condor bird, was presented by John C. Borneman, Condor Naturalist of the National Audubon Society. Mrs. Beula Edmiston, secretary for the Committee for the Preservation of the Tule Elk, gave a slide program on the Tule Elk as the second of these programs—both sponsored by the Oasis Garden Club of Indian Wells Valley, a member of the Desert Empire District of California Garden Clubs, Inc.



NURSES CLUB ELECTS OFFICERS—The Indian Wells Valley Nurses Club elected officers for 1970 during their annual business meeting held this week at the China Lake Community Center. They are: (seated l-r)

Rita Roussel, secretary-treasurer; Ruth Stone, president; Karen Heyhoe, vice president; (standing l-r) Geraldine Thomas and Anne-Marie Gordon, board of directors. The club meets the 4th Monday, each month.



APPOINTED TO NEW RATES—NAF enlisted men flanked by Capt. L. A. Dewing (l) NAF Commanding Officer and Cdr. J. H. Robcke (r), NAF Executive Officer, were appointed to the following rates during morning quarters last week: (kneeling, l-r) James K. Latta, Communications Yeoman Third

Class; Thomas G. Ruzinok, Aviation Electrician's Mate Third Class; (2nd row, l-r), Karl D. Monard, Aviation Machinist's Mate Second Class; Daniel L. Banks, Aviation Machinist's Mate Third Class; and Dennis B. Cox, Aviation Ordnanceman Third Class.

—Photo by PH2 M. F. Krause

Public Concert

The COMNAVIAIRPAC Band will give a public concert at NWC on Monday, February 2, from 11:30 to 12:30, noon.

All hands, civilian and military, are invited to attend the concert to be held on the lawn in front of the Navy Mess Hall on King St., between Hussy Road and Lauritsen Road.

PROMOTIONAL OPPORTUNITIES

(Continued from Page 2)

memoranda of the Assoc. Tech. Coordinator. Additionally, receives telephone calls and visitors, makes appointments, arranges meetings and sets up and maintains the files for the office. **Minimum Qualification Requirements:** Two years of appropriate experience. **Job Relevant Criteria:** The incumbent must be qualified at typing, shorthand dictating transcribing and must have a good working knowledge of general office clerical procedures. She must be able to work with a fairly wide degree of independence.

Physicist, GS-1310-9, 11, or 12, PD No. 330060, Code 3007—This position is located in the Weapon Systems Analysis Group. The incumbent is responsible for the formulation and subsequent analysis of weapon system concepts. **Minimum Qualification Requirements:** Basic requirement is a B.S. degree in physics. At GS-11 or 12, the applicant should have at least one year of experience in the analysis of control systems, sensors, or weapon/fuze terminal effectiveness. **Job Relevant Criteria:** A background in those disciplines related to the preliminary design of weapon systems. **Advancement Potential:** Position has potential to the GS-13 level.

File applications for above with Joan MacIntosh, Bldg. 34, Rm. 34, phone 71471.

Clerk-Typist, GS-322-3, Payroll Staff, Central Staff, Naval Weapons Center, Corona, Calif. 91720—Incumbent performs clerical duties for the Payroll Staff such as the preparation of reports, memorandums, official letters, administrative and statistical forms and the appropriate filing and maintenance of records. **Minimum Qualification Requirements:** Applicants must meet the requirements of CSC Handbook X-118; 1 year of appropriate experience or 1 year of education above the high school level.

Electronic Engineer, GS-855-11, Calibration Laboratory Branch, Systems Design Division, Missile Systems Department, Naval Weapons Center, Corona Annex, Corona, Calif. 91720—The purpose of this position is to provide an electronic specialty to develop the electrical and electronic areas of instrumentation with particular emphasis on the microwave segment associated with the Standards Laboratory II (microwave). **Minimum Qualification Requirements:** Applicant must meet the requirements of Civil Service Handbook X-118 as modified by General Amendment, Page 10.03. This position requires knowledge of the basic theories and principles of electronic engineering. Specific experience in the field of electronic calibration and microwave area techniques is also desired. **Contact Dorothy Smith, ext. 4410 or 4415, prior to the closing date.**

DMV Offices To Remain Open On Saturday To Aid License Renewal

According to Robert C. Cozens, Department of Motor Vehicles director, DMV offices will open on Saturday, January 31, until 12 noon to offer vehicle registration renewal service to California motorists.

Cozens cautioned Californians, who among them own 13 million vehicles, that the last day to renew without penalty for 1970 is Wednesday, February 4th.

Renewal cards and fees may also be mailed to Sacramento marked no later than February 4, they will be processed without a late charge being added.

Cozens stated that anyone who has a difficulty or question in connection with a renewal should not write to Sacramento, but, instead take his papers to a local DMV office,

where the matter can frequently be straightened out on the spot.

Auto clubs are also good places where members can bring their problems and get their questions answered.

Any vehicle owner who has not received a 1970 renewal notice should take his 1969 registration card to a DMV office, where his renewal fee can quickly be computed.

IN AN EMERGENCY
CALL:

446-3333

ROCKETEER SPORTS

Donohue Leads Premier — Son High In Bantams

The Indian Wells Valley Women's Bowling Association City Tourney will be held on February 7 and 8, and February 14 and 15. The team event will be shot at the China Lake Bowl, with doubles and singles to take place in Ridgecrest.

The women are also sponsoring an adult no-tap Tournament at the Ridgecrest Lanes, Saturday and Sunday, January 31 and February 1. For further information, contact Ann Morris, 446-5246, or Rose Pelly, 446-4043.

Premier League

Ed Donohue, bowling on the league-leading Ace TV quintet, was high last Monday with a 216-202—608. Ace increased their lead over Boyd's Auto two more points and are now 7½ points in front.

Other fine scores for the evening: Ken Dalpiaz, 230; Bryan Schuetze, 223-212; Jerry Steele, 224; Bob Hooper, 215; Warren Schad, 215; Gordy Zurn, 214; Jack Herbstreit, 212-200; Dean Lippincott, 210, and Roger McCullough, 210.

Ace shot a 791 single game and China Lake Navy fired a 2784 series to lead team scoring.

Women's Wed. Nite

The Tired Squaws hit 976 and El Rancho Nogot blasted out a 2756 series to lead team scoring last Wednesday night. Lorraine Johnson shot 202—545 and Alice Cutsinger had a 512 to lead individual scoring.

Supply Dept. Mixed

Bob Green had a 588 and John Shepherd a 573 for series honors among the men, and Ralph Brewer had high game of 233. Aline Fry led the ladies with a 539. High game was rolled by Myrtle Snyder, who shot a 196 enroute to a fine 513 series.

Bantams

The not-so-wee little ones shot some nice scores last Saturday. Michael Donohue and

David Schad led the league with 444 apiece and Donohue had a 178 game. Other nice scores: Buford Branson, 158; David Schad 152.

The ladies were led by Margaret Daures, with 402, including a 152 game, and Debra Smith, who shot a 400. Debbie had a 167 game, and Susan Jones, whose average is 97, shot a 130.

Bob Kuzmin had a 381 series while carrying a 107 average.

Junior and Senior

Bruce Pfau had a 540 and John Roulund a 535 to lead the boys' scoring and Patty Dalpiaz led the girls with a 454 series. John Roulund fired a 208 and Dale Dieder a 201, while Patty shot 166, followed closely by Kelly Moulton with a 165.

Military Ball & Chain

The Unaccountables hit an 868 game and a 2355 series to lead the league. Ralph Brewer shot 219—575 to lead the male scoring, while Flo Albright's 171—473 lead the ladies.

PREMIER LEAGUE STANDINGS

| | Won | Lost |
|---------------|-------|-------|
| Ace TV | 229 | 151 |
| Boyd's Auto | 221.5 | 158.5 |
| R. C. Lanes | 204.5 | 165.5 |
| C. L. Navy | 201.5 | 172.5 |
| AV Trophy | 197 | 183 |
| Starlite | 186.5 | 193.5 |
| Tom's Place | 182.5 | 197.5 |
| Mercury | 175 | 205 |
| Kirkpatrick's | 169 | 211 |
| Team No. 10 | 133.5 | 236.5 |

Youth Dance

The China Lake Youth Center will sponsor a dance at the Community Center Saturday, January 31, beginning at 8 p.m. until 1 a.m., featuring "Stiffin."

Tickets for the dance are priced at \$2 for general admission and \$1 for Youth Activities members. They may be purchased at the door or at the Youth Center.

Cross-Country at Golf Club

The China Lake Golf Club will hold a cross-country golf tournament Saturday, February 7. The event is open to all members of the Southern California Golf Assoc. Entries must be received by 5 p.m. February 5.

The tournament involves mixing the various tees and greens to form a nine-hole course considerably different from the normal layout.

The first hole starts at No. 1 tee and ends at No. 8 green. The last hole, the cross-country hole, begins at No. 15 tee and ends at No. 9 green—a distance of more than one-half mile. In between will be a unique variety of shots not often found on the China Lake course.

The course will be closed to all non-tournament players until the event is completed.

For further information, contact Curt Bryan, ext. 71481.

Captain Gary Castor and his 15 teammates from China Lake Golf Club meet Springbrook tomorrow in the third round of the SCGA playoff series.

This will be the second home match for the CLGC squad that split its two matches with Antelope Valley. The team won, 34-14, on the China Lake links January 18, and lost last weekend at Antelope Valley, 32-16.

The 16-man team will play a total of six matches against Antelope Valley, Springbrook, and Muroc Lake. The league winner will continue in the SCGA playoffs, which will eventually crown the Southern California champion.

Squad members include Max Smith, Joe Jones, Bill Sorbo, Pug Pilcher, Joe Strickel, Merrell Lloyd, Don Hiles, Ralph Pinto, Al McDonald, Len Licwinko, Gary Castor, Elmer Davis, Bob Young, Frank MacDonald, Jim Runchey and Al Zernikow.



BASKETBALL—is the game, and action is the name every Tuesday, Wednesday and Thursday nights in the Center Gymnasium when three games are played each night in the NWC Intramural Basketball League. Centerites may view these games free of charge and take part in the excitement inherent in the game of basketball.

★ ★ ★ ★ ★

Loewen's Retain Basketball Lead

Despite an offensive show by Ace TV, the Loewen's Lions retained the China Lake Basketball League lead by winning their only game of the week, 71-26, over the NAF Officers.

The victory lifted the Lions' record to 7-0, and gave them the league lead in both team offense and team defense. Ted Lane scored 16 and Carl Ames added 14 to carry the steady Lions.

Meanwhile, Ace TV scored 192 points in two games, ripping the Brothers, 105-66, and the Chaparrals, 87-13. Tim Higgins, who moved into the league's scoring lead, dropped in 26 against the Brothers and tallied 12 the next evening. He

was supported by Jerry Kissick's 21-point performance against the Brothers and Ken Burke's 22 and 14-point games. NAF kept pace by stopping VX-5, 61-48, and edging the Hustlers, 54-50. VX-5's record fell to 6-3 by splitting its two games, while LDS upped its season mark to 5-4 with wins over the NAF Officers and Desert Motors. VX-5 and LDS meet Thursday in a battle for fourth place.

The league's top 10 scorers were shuffled tremendously last week, but only one new name was added to the list. Loewen's Ted Lane, unranked a week ago, moved into ninth place with a 13-3 average.

Higgins jumped from sixth to first with his 48-point burst, while Marvin Johnson (NAF) held onto second place with 16.6. NAF Officers' Gary Ayres leaped from tenth to third by scoring 19 and 18 points in two losing causes. Ayres lifted his average from 13.6 to 15.0.

| | G | FG | FT | Pts. | Avg. |
|-------------------|---|----|-------|------|------|
| Higgins, Ace | 9 | 67 | 28-43 | 162 | 18.0 |
| Johnson, NAF | 9 | 64 | 21-39 | 149 | 16.6 |
| Ayres, NAF | 7 | 36 | 33-63 | 105 | 15.0 |
| Taylor, LDS | 9 | 59 | 15-22 | 133 | 14.8 |
| Latta, NAF | 7 | 35 | 32-51 | 102 | 14.6 |
| Blanche, Loewen's | 4 | 28 | 2-10 | 58 | 14.5 |
| Coppel, VX-5 | 7 | 44 | 12-23 | 100 | 14.3 |
| Kissick, Ace | 9 | 56 | 15-25 | 127 | 14.1 |
| Lane, Loewen's | 6 | 37 | 6-13 | 80 | 13.3 |
| Rog. Short, DM | 8 | 42 | 18-26 | 102 | 12.8 |

THE SCHEDULE

February 3—5:30 Chaparrals vs. Genge; 7:00 NAF vs. LDS; 8:30 NAF Officers vs. Ace TV.

February 4—5:30 Ace TV vs. Desert Motors; 7:00 VX-5 vs. NAF Officers; 8:30 Loewen's vs. Brothers.

February 5—5:30 Chaparrals vs. Hustlers; 7:00 NAF vs. Brothers; 8:30 VX-5 vs. LDS.

| | W. | L. | Pts. | Opp. | Pts. |
|---------------|----|----|------|------|------|
| Loewen's | 7 | 0 | 73.3 | 42.7 | |
| Ace TV | 8 | 1 | 72.8 | 49.9 | |
| NAF | 8 | 1 | 67.9 | 46.5 | |
| VX-5 | 6 | 3 | 64.1 | 46.4 | |
| LDS | 5 | 4 | 56.7 | 54.9 | |
| Desert Motors | 4 | 5 | 53.0 | 50.9 | |
| Genge | 3 | 4 | 51.0 | 61.4 | |
| Hustlers | 3 | 5 | 52.4 | 52.1 | |
| Brothers | 1 | 7 | 46.4 | 69.6 | |
| NAF Officers | 0 | 7 | 34.9 | 63.7 | |
| Chaparrals | 0 | 8 | 21.1 | 78.1 | |

NWC Swimming Pool Lists New Daily Schedule

NWC swimming enthusiasts will have even more time for open swimming at the base pool, according to the revised pool schedule from Special Services.

The pool will be available for open swimming five days a week, including 10 hours each weekend. The hours for open swimming are as follows:

| | |
|-----------|----------------|
| Monday | 4-6 p.m. |
| Wednesday | 4-9:30 p.m. |
| Friday | 4-9:30 p.m. |
| Saturday | 11 a.m.-5 p.m. |
| Sunday | 1-5 p.m. |

OOMPH—The action will be as hard as this photo indicates in the Valley's first annual Pro-Am Boxing Classic Saturday, January 31, beginning at 8 p.m., in the Burroughs High School gym. Sugar Ray Robinson will be the guest referee for the Amateur Card, and the Kiwanis Club of Ridgecrest, along with the China Lake Youth Center, will present three professional bouts, featuring Pete Vital vs. Jimmy Ligon, 135 pounders; Clay Hodges vs. Eddie O Ford, heavyweights; and Tommy Coulson vs. Camacho Lopez, fighting in the 135 lb. class. For ticket reservations, call Ext. 72909.

Captain M. R. Etheridge To Speak at New Park Dedication

Capt. M. R. Etheridge, NWC Commander, will be a featured speaker at the formal dedication of the 106-acre Kern Desert Regional Park, Saturday, January 31, beginning at 2 p.m.

Also scheduled to speak at the ceremony are Elliott Fox, Vice-Mayor of Ridgecrest, and LeRoy Jackson, County Supervisor from this district.

The new regional park, located between the Burroughs High School access road and China Lake Blvd., is being developed on 106 acres of surplus Navy property that was purchased by the county through the use of state recreation bond money.

Invited guests at the dedication will be members of the Kern County Board of Supervisors, and members of the Kern County Board of Recreation Commissioners and the Kern County Parks and Recreation Department. Other elected State and Federal representatives are also scheduled to attend.

In addition, the Burroughs High School band, the NWC Color Guard, representatives of local veterans organizations and the Boy Scouts will take part in the brief dedication ceremony.

Taxpayers Reminded That New 1040 Form Replaces Old Short-Form 1040A

The more than three million servicemen expected to file Federal income tax returns for 1969 will all use the new style 1040 form unveiled recently by the Internal Revenue Service. The new tax form has been designed so that, regardless of financial circumstances, it can be used by taxpayers in any bracket.

Card Form 1040A—the old short form, filed by 18 million taxpayers last year—has been eliminated. However, the new form will enable nearly half of all taxpayers to file by using only one side of a single page, the IRS said.

Taxpayers with special tax situations need only add to the basic form additional pages or schedules to meet their needs. Itemized deductions, business income and expense, and other add-or-subtract items will be reported on separate pages.

The IRS said the card form 1040A was becoming obsolete because of rising income levels

in recent years and increased complexity in the financial status of taxpayers. This resulted in a decrease in the percentage of taxpayers using the card form.

Introduced in 1954, the 1040-A was designed as a simplified form to help the lower-income wage earner. However, taxpayers using it could not take advantage of certain tax credits or exclusions and could not itemize their deductions.

The simplicity of the old 1040A has been built into the new form, according to the IRS. The one-page basic 1040 is very much like the front and the back of the discontinued card form.

The NWC Legal Office expects to have a supply of the new 1040 forms early in February. Servicemen, as well as the general public, may obtain them at that office.

The Legal Assistance Officer will also assist servicemen in filing their tax returns.



VX-5 AWARDS CEREMONY—Capt. C. W. Fritz, Commanding Officer of VX-5 (back to camera), reads citations for, left to right, Cdr. B. H. Creighton; Lt. R. J. Stricker, ADJC B. F. Vellegas; AO1 R. C. Bradley and PR3 J. F. Kretchmar during an inspection held Friday, January 23.

—Photo by PH1 G. Bird

Help Line To Aid 'Shut-ins' And Elderly

A new community service for the elderly and shut-ins was announced this week by directors of "Help Line"—Indian Wells Valley's emergency telephone service.

The training course begins January 12, with classes meeting from 7:45 to 9:45 p.m. on Mondays and Wednesdays through February 4. Any man or woman interested in serving as a volunteer telephone worker is invited to attend the course. Additional information, such as class locations, may be obtained by contacting Mrs. C. D. Lind at 446-4387, or Mrs. Robert Dillinger at 446-6163.

As a new service, Help Line will provide regular daily telephone contact for shut-ins and elderly persons. The individual may request this service, or it may be requested by someone who usually contacts such a person but who will be out of town temporarily.

Should the shut-in fail to answer his phone when Help Line makes its daily call, it will be assumed that he has been taken ill or perhaps has suffered an incapacitating accident. Aid, in the form of a friend, neighbor or minister, will be sent at once to determine the reason for lack of response.

Persons wishing to take advantage of the free telephone contact service are invited to phone the Help Line Office, 446-5531, any day between 6 p.m. and midnight.

Help Line's original service, providing immediate confidential aid for people faced with any kind of serious problem, will continue as usual.

Three Claims Due, Fourth Waived Announces GEBA-CLMAS Secretary

Four GEBA-CLMAS assessments are now due, announced Lawrence R. Mason, this week. He is secretary-treasurer of the Government Employees Benefit Association and the China Lake Mutual Aid Society.

Assessment No. 195-123 is for 66-year-old Joseph E. Smith, who passed away December 29 from a heart attack. He was recently retired from the Air Conditioning Section of the Public Works Department.

Assessment No. 196-124 covers Roy R. Raney, age 67, who succumbed to a stroke January 5th at his home in Palmdale. Prior to his retirement, Raney was a taxi driver in the Public Works Department.

The third assessment, No. 197-125, is for William Howard, age 72, the victim of a heart attack on January 6th. Howard has lived in Ridgecrest since his retirement from the Public Works Department.

Payment for a fourth assessment, No. 198-126, is waived. This one is for Jerome Conner, age 68, who passed away January 25, in San Bernardino following surgery at Laurel Hospital. Jerry worked in Timekeeping of Central Staff for a number of years and was employed in Public Works' Plant Account Section at the time of his retirement.

All members are advised to check their assessment cards to be sure they are paid up to date and should contact their collector for payment of the assessments. Those who pay by mail may also send in advance payments. Payments may be mailed to Mr. Mason at 208 Bonita St., Ridgecrest, Calif. 93555. Occasional waiving of assessments is dependent upon paid-up dues to maintain the required bank balance.

Anyone interested in joining may call Larry Mason at 375-2846 after working hours.



PRINT OF THE MONTH—Jack Fischer, a research physicist in Code 60, and president of the China Lake Photographic Society, took this portrait of his daughter Ruth, 2 1/2, with a 4x5 Speed Graphic on Royal Pan Film. He used natural light and a white card fill. The exposure was 1/60 at f5.6. The Photographic Society meets on the first Thursday of each month at 361 McIntire St., on the Center.



TID's Presentations Division Provides Effective Communication

Responsible Use of Audio-Visual Techniques Removes Attention Gap

Boil it down and tell it like it is! That is one way of describing the mission of the Presentations Division of the Technical Information Department.

Many people - the number seems to grow each year - have a need for quickly comprehending factual information about the status and significance of Center work. The Presentations Division tries to meet that need for project leaders and top management at the Laboratory by producing films, multimedia and slide presentations, and individual slides and charts and by providing projection and equipment loan services in Michelson Laboratory.

The Division objective is to provide communication tools that quickly and in a straightforward way convey the status of programs or the source of problems and solutions.

For example, nearly every official visitor with SECRET Clearance who comes to China Lake is shown the **Highlights of NWC Technical Programs**, a 42-minute multimedia briefing produced by the Division. Currently, it is being produced twice each year under the direct supervision of Bryon Butler, head of the Presentations Development Branch. Through a combination of 1600 feet of motion picture film, 150 slides, and prerecorded narration and sound effects, the briefing covers the status of 25 programs.

Exhibits

Most cleared visitors also are shown an exhibit of Classified hardware in an area near the Main Lobby of Michelson Laboratory. The exhibit is the responsibility of Ray Sinnott, head of the Exhibits Branch.

In addition to the Classified exhibit, the Division also planned and now generally makes some changes each year in permanent exhibits in the Main Lobby of Michelson Laboratory and the Weapon Exhibit Center—two other tools useful to Center visitors looking for information about the technical work and history of the Center.

Traveling Presentations

Because not all of the people who need information about the Center and its programs can come to China Lake, the Division takes the message to some audiences. Each year the Exhibits Branch shows Center displays at about 30 events attended by about 1,000,000 people, and the **Highlights** show was shown 11 times in the Washington, D. C. area last September.

Films

At some time or other nearly every project leader at China Lake has the Division make a technical film report. The China Lake Film Branch may do the work under Bill Miller's direction or Ev Baker, Senior Film Specialist may do it using contract resources.

In one way or another, the Division turns out from 18 to 30 films a year. These not only meet immediate needs for project information at various local and Washington levels but also are picked up frequently for use as training aids by Fleet units.

"Engineering Department Shops," a film produced under

Ev Baker's supervision by FM Productions recently received an award from the Information Film Producers of America (Rocketeer 10-31-69). It has also received a CINE Golden Eagle Award which qualifies it for showing at about 40 International Film Festivals.

The effectiveness of all of the end products of the Division - exhibits, films, or multimedia presentations - is influenced to a large extent by the quality of the art or animation.

One of the Center's top-notch graphics designers is Dick Johnson, who heads the Division's Animation and Illustration Branch.

Center presenters ranging from the Commander to individual project engineers or administrators use the products of the Animation and Illustration Branch.

Transparencies, slides, and charts in profusion pour out of the Branch as well as a wide array of graphics for major presentations and special graphics such as logos and artists' concepts of new devices or facilities.

Frequently, members of the Division take on special projects directly for Center top management. For example, Al Christman, Senior Presentations Specialist, coordinated all of the Center displays for the visit of President Kennedy in 1963.

Al is now researching and writing an interpretive history of the period of establishment of the Laboratory.

At other times, Ev Baker has made films for the Director of Navy Laboratories (DNL) and the Office of Naval Research (ONR), and Earle Kirkbride, the Division Head, was recently loaned to the DNL for studies of information handling resources at Navy Labs.

The Presentations Division has been headed by Earle Kirkbride since 1963. He sees the mission of the group as "... helping management and project people attain their objectives through the best of modern communication techniques."

Toward that end the Division tries to attract and retain capable people willing to experiment with different techniques—people who can get enthusiastic about helping other people solve communication problems.

The Division was established in 1954 when the Technical Information Department was created from components that had for some time existed in various Departments. Top management felt that a group was needed to provide the most modern of communication techniques to report the progress and significance of technical work.

The soundness of the concept is evidenced by the impressive range and quantity of the Divisions output and the number of visitors who annually come to China Lake to see how they do it.



EXHIBITS BRANCH—Ray Sinnott, (l) head of the Exhibits Branch is responsible for the exhibits housed in the Weapons Exhibit Center. Al Christman, Senior Presentations

Specialist, was largely responsible for proposing the establishment of the Exhibits Center and, as a special project, performed much of the initial planning.



PRESENTATION DEVELOPMENT—Division writers consult with a project engineer on a suggested approach to a project pre-

sentation. Careful advance planning saves the project engineer money and ensures that the presentation will achieve results.



GRAPHICS—Dick Johnson (l), Head of the Animation and Illustration Branch, reviews

a storyboard of key scenes for a film animation sequence with Jack Durk, illustrator.



ABOVE—Hal Lindberg of the Exhibits Branch attaches a fin to one of the missiles on a new NWC Exhibit. Exhibits are designed by the Division and fabricated by commercial display firms or in-house groups.

LEFT—A scene for a technical film report is preplanned by the Film Branch on the Division's sound stage. In this photo, Director/writer Marty Shelton (l) checks light levels while branch head Bill Miller observes, and John Amaral checks the image on one of the studio cameras.

BELOW LEFT—Roland "Boo" Burks is the man who most frequently operates the various projectors that make the multimedia presentation, "HIGHLIGHTS of NWC Technical Programs" possible. "Boo," along with Paul Seaton and Barbara Jacobs provide most of the projection service in Michelson Laboratory.

BELOW—K. H. Robinson, head of the Technical Information Department, checks the caption on Weapon Exhibit Center exhibit. Any errors of fact are unlikely to escape Robinson because he was directly involved in the atomic weaponry work at China Lake prior to assuming leadership of the Department.

