

Art Festival Area Show Planned Here April 7-8

The local area segment of the 25th annual Kern County Art Festival will be held on Saturday and Sunday, April 7 and 8, at the Community Center.

Entered in competition will be elementary, junior high and high school division works of art, as well as adult amateur artistic efforts.

First place blue ribbon award winners will then compete with similar winners from 10 other areas of Kern County for district awards.

The festival, which is sponsored by the Kern County Parks and Recreation Department, will feature works by all those who made application to the area show prior to March 1. The local phase of the festival is sponsored by the Desert Art League, whose mem-

bers hang all the work displayed and financially underwrite the cost of the two-day event.

Hours for the exhibition will be from 2 to 8 p.m. on Saturday and from 11 to 6 p.m. on Sunday.

The Art League will give away four works by artists, donated for this purpose. These are a watercolor by Ken Decker, of Buena Park; a watercolor, by Ruth Mayer; a stitchery, by Betty Brown, and a fine-line (with watercolor) painting, by Ida Davis.

Also available will be the popular miniatures, donated by Art League members for the show. In addition, art demonstrations will be presented by local artists at various times during the show.

There will be no charge for admission.

Intramural Cage Results Reported...

(Continued from Page 6)

Also on the same evening (Wednesday, March 21) the Snarfs snuffed the Dispensary, 57-44, as Carl Hall led the scoring with 21 points for the Snarfs.

Darrel Kinman pumped in 12 points and John Revels added 11 as the Over-the-Hill-Gang managed to put the damper on the Fuze Dept., 39-36, in a Rockin' Chair Division encounter.

Thursday's action at the Center Gym saw Jim Brown fall just one point short of matching the entire

total of the Comarco cagers as the Tweets smashed the hapless Comarco squad, 64-32.

The Loewen's Lions outlasted the NAF cage team, 73-64, in a Division A contest the same evening. Gordy Irvin scored 21 points and Scott Shacklett dumped in 20 for the winners. Ron Black (17) and Greg Moore (20) weren't enough for the overall firepower of the Lions.

In the final game played in the Intramural League last week, the Fuze Dept.'s luck failed to improve with the passage of time as they fell to The Gentlemen, 41-28.

Assessments Due on Two Deaths

Assessments are now due from members of the China Lake Mutual Aid Society and Government Employees Benefit Association as the result of two deaths that oc-

curred on Tuesday, Larry Mason, secretary, reports.

The CLMAS and GEBA members who succumbed are A.K. "Slim" Winslow, 71, and 54-year-old William Sturm.

No Dance Tonight At Officers' Club

Because of a "dining in" affair for the officers of Air Test and Evaluation Squadron Five (VX-5) and their guests, there will not be a dance this evening at the Commissioned Officers' Mess, George Barnard, club manager, reported.

The barefoot bar, main bar and dining room all will remain open tonight, as usual, to other COM members and their guests, Barnard added.

A retired employee from Code 5545, Winslow, who has been living in Inyokern, suffered a fatal heart attack while a patient at the Ridgecrest Community Hospital.

Also a heart attack victim, Sturm was employed as an electronics technician in the Infrared Guidance Branch of the Systems Development Department's Guidance and Control Division.

His fatal seizure occurred while he was on the job Tuesday at the Michelson Laboratory.



OPENS TONIGHT—Randy Carson, Lauretta Crow and Jack Lindsey (l.-r.) who will portray Nanki-Poo, Yum-Yum, and Ko-Ko, respectively, in Gilbert and Sullivan's "The Mikado," prepare for tonight's opening show. The Cerro Coso College's Theater 27 class will present the famous musical comedy again tomorrow night, and on April 7, 8, 13 and 14, in the Burroughs High School Lecture Center. Curtain time is 8:15 p.m. for all of the dates excepting April 8. A special family matinee, beginning at 2:15 p.m., has been scheduled on that day. Tickets, priced at \$1.50 for adults and \$1 for students, can be obtained at either The Gift Mart in Ridgecrest and the Station Pharmacy, or at the Lecture Center door prior to each performance.

Greek Balladeer To Appear In Season's Final Concert

The final concert of the 1972-73 season will be staged next Thursday, April 5, at the Center Theater by the China Lake Civic Concert Association.

Nana Mouskouri, celebrated Greek balladeer, will present an evening of music for local theatergoers, beginning at 8 o'clock.

Tickets for the program are priced at \$5 for adults and \$1.50 for military personnel and students through 21 years of age.

Miss Mouskouri, who was born in



Athens, began her musical studies while very young. In her early teens she entered the Athens Music Conservatory in 1951, where she studied singing, piano and harmony to prepare herself for a career in classical music.

After eight years of study, she discovered jazz and began to sing on the Athenian radio stations. She was heard by Manos Hadjidakis, the composer of the music for "Never on Sunday," and he became one of her first celebrated devotees. He created many songs for Miss Mouskouri, including "La Procession," and "Le Jeune Cypres," which she performed at the Festival of Greek Song in October 1960.

Miss Mouskouri sings in French, German, Italian, Spanish, English, and, of course, Greek. She is considered to be as vivacious and warm off the stage as she is when she appears before audiences. She possesses an exceptionally beau-

SHOWBOAT
MOVIE RATINGS
The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.
(G) - ALL AGES ADMITTED
General Audiences
(PG) - ALL AGES ADMITTED
Parental Guidance Suggested
(R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian
CS - Cinemascope
STD - Standard Movie Screen
Regular starting time - 7:30 p.m.
Matinee - 1 p.m.

FRI. 30 March
"THE GANG THAT COULDN'T SHOOT STRAIGHT" (STD 96 Min.)
Jerry Orbach, Leigh Taylor-Young (Comedy) Two "families" in the Brooklyn Mafia dispute racket territorial rights and, in a series of inept attempts, various assassinations are bungled. (PG)

SAT. 31 March
—MATINEE—
"VIVA MAX!" (STD 92 Min.)
Peter Ustinov, Pamela Tiffin (G)
—EVENING—
"WHAT'S UP DOC?" (STD 94 Min.)
Barbara Streisand, Ryan O'Neil (Comedy) Eccentric Barbara Streisand and an equally eccentric young man, Ryan O'Neil, become involved with four identical traveling bags at a musicologists' convention. (G)

SUN. & MON. 1-2 April
"THE WEEKEND MURDERS" (CS 96 Min.)
Anna Moffo, Gaston Moschin (Suspense Comedy) When a third murder victim is discovered buried on a golf course, Police Sgt. Gaston Moschin suggests to Inspector Lance Presival that the case be reviewed. (R)

TUES. & WED. 3-4 April
"TRINITY IS STILL MY NAME" (CS 118 Min.)
Terence Hill, Bud Spencer (Western) Terence Hill repeats as the vagabond outlaw, Trinity, as does Bud Spencer as his ofenry, hulking brother and comrade "Bambino." In response to their father's dying wish, Trinity and Bambino promise to enhance the family's awful reputation by increasing the price on their heads. Naturally, the harder they try, the more respectable they get. (G)

THURS. 5 April
CHINA LAKE CIVIC CONCERT ASSN. Presents
Nana Mouskouri and the Athenians
8 p.m.

Band Wins Honors

The Murray School band, led by Alberta Kline, journeyed last weekend to the Antelope Valley District Music Festival in Lancaster, and came home with ratings of superior — in performance and sight reading.

This is the fifth consecutive year that the Murray School band has received a superior rating for its performance.

The 66-piece musical group performed three numbers — "Rondelay," arranged by John Kinyon; "Still Wie Die Nacht," by Karl Bohm, and "The Triumphal March," from "Peter and the Wolf," by Prokofieff.

The Murray School band is composed of 7th and 8th grade musicians.

From _____

TO _____

PLACE STAMP HERE



Naval Weapons Center
China Lake
California

Vol. XXVIII No. 13

Ex-POW Receives Update On Weapons Technology

An eye-opening look at some of the more recent developments in weapons technology and delivery techniques was provided for Lt. David G. Rehmann, a former prisoner of war in North Vietnam, during a one-day visit last week to China Lake.

A Navy radar intercept officer, Lt. Rehmann, whose hometown is now Lancaster, Calif. (where his mother lives), was shot down on Dec. 2, 1966, while on a combat mission over North Vietnam. Captured immediately, he remained a prisoner of war for more than six years.

In addition to an hour-long session in the ready room at the Naval Air Facility with Naval officers assigned to duty at NWC, Lt. Rehmann was shown the NWC Highlights film and briefed on various projects.

He expressed interest in the briefing—particularly to the extent that it helped to bridge the information gap created by his 6-year imprisonment—and commented that he believed such a

presentation would be helpful to all returning POWs.

Lt. Rehmann was queried by NWC's Naval officers about the benefits of the survival training he had received prior to being shot down, and confirmed that it had helped a great deal.

He and other POWs exercised regularly in an effort to keep physically fit during their long ordeal, but it was their continuing faith in the American people, and the knowledge they would not be forgotten that played a major role in keeping their spirits up.

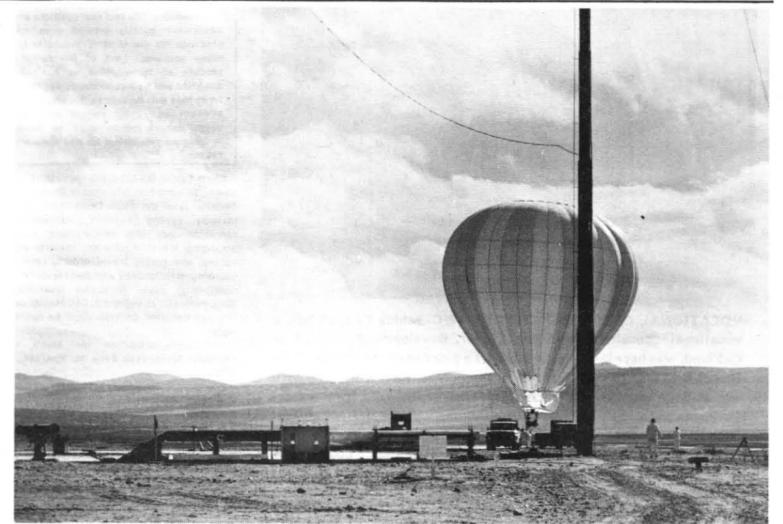
It was this belief, he emphasized, that played a large part in his own survival as a POW, Lt. Rehmann said.

Such comments were music to the ears of representatives of a group of local residents (part of a nationwide organization supporting U.S. prisoners of war) and those listed as missing in action, who were among the attendees at an informal luncheon held in honor of Lt. Rehmann at the Commissioned Officers Mess.

Members of the local POW-MIA group recalled a photo distributed by Hanoi for propaganda purposes, showing a downcast Lt. Rehmann as he was being marched (with broken arm in a cast) through the streets of the North Vietnam capital. This photo, which was reproduced on a poster, was produced an estimated 500 million times to illustrate the plight of POWs and the need for

(Continued on Page 4)

Realignment Announced
Changes in program requirements have made necessary a realignment of some Center functions.
A limited reduction-in-force affecting approximately 25 employees is in process to accomplish the realignment. Those employees involved have been notified.



BALLOON USED IN TEST WORK—Personnel of the Ballistics Test Branch of the Propulsion Development Department's Quality Assurance Division are dwarfed by the size of the hot air balloon shown being inflated for another of the tests being carried out in support of various fuel-air explosive programs. —Photo by PHAN D. M. Jeneraux

Hot Air Balloons Now Used In Weapons Development Work

Balloons, one of the oldest flight vehicles employed by man, still have a practical use in modern weapons development.

While various types of balloons are used for atmospheric studies, recreational flying, or commercial advertising; the Naval Weapons Center is one of the few places where tethered hot air balloons are used for research and development of weapon systems.

A hot air balloon facility was originally conceived and es-

tablished by Al Lopez and Cecil Glass, engineers working for the Weapons Systems Branch, in 1966 for research studies on the fuel-air explosive program. The balloon facility was located at the CT-6 Test Range of the Propulsion Development Department under the cognizance of the Ballistic Test Branch of the Quality Assurance Division.

The facility consists of three balloons, two 50-ft. diameter, one 60-ft. diameter; two tether

systems, one for land impact and one for water impact tests; complete remote control launching and retrieving; and fail-safe emergency features.

Lopez pointed out the main advantages of using a hot-air balloon, as that of providing a low-cost launch platform for quick turn-around repeated experimental tests, in addition, with operations remotely controlled a high degree of safety is obtained with experimental ordnance testing. Also, with a relatively small impact area, instrumentation difficulties are minimized.

Series Begins on Ranges Of Electronic Systems Dept.

(Ed. Note—Beginning today with the first of two articles, The ROCKETEER will cover the scope of activities and capabilities of the ranges of the Electronic Systems Department, headed by Leroy Riggs. Today's installment deals with the Antenna Range and the RF Measurements Facility, headed by Russell M. Lambert.)

Today, increasing emphasis is being placed on all aspects of electronic warfare due to the threat to U.S. ships and aircraft by enemy-directed missiles and guns. In further emphasizing its role in the development of defense suppression weapons and technology, a part of the Naval Weapons Center effort is concentrated on reducing the effectiveness of enemy radar by the following means:

- 1) Research and development of advanced missile guidance systems to home on enemy radar installations;
- 2) Development of radar detection equipment; and
- 3) Research on critical electronic components and systems.

To enhance this research and development effort, the RF Development Division, headed by Bob Corzine, has as part of its organization a highly complex RF Measurement Facility (Lambert's group). This is the most complete and sophisticated measurement facility in the country. It is used primarily for characterizing microwave antenna systems, sub-systems and components with particular emphasis on the avionics and guidance portions of both active and passive weapons systems.

Consultation services are provided by A. J. Mendonca and G. R. McChesney for test proposal preparation, measurement feasibility studies and test fixture designs.

Background
The RF Measurement Facility evolved from an elementary RF (radio frequency) measurement capability with simple instrumentation to the present facility consisting of three anechoic chambers, an antenna (Continued on Page 5)

The use of balloons in weapons test work has its limitation, Lopez acknowledged. Windy days make testing impossible, while extremely hot days greatly reduce the lifting capability of a hot-air balloon. The present facility has limits of 800 feet maximum altitude and 200 lb. maximum payload.

The balloon facility was used extensively in the development of the CBU-55, the first fuel-air explosive weapon system used in Vietnam. At present, the balloon facility is utilized in support of various fuel-air explosive programs, among them SLU-FAE, surface launched rocket assisted; MAD-FAE, mass-delivery by helicopter; and FAE II, technology advancement project.

Personnel of the Ballistics Test Branch plan and carry out the test and evaluation work using the balloon facility. They are Roy Johanboeke, branch head; Ed Regan, area supervisor; Bert Andraesen, fire control officer, and Frank Amparano, key ordnance man for the facility.

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DDC TERMINAL CHECKED OUT—Hubert E. Sauter (center), deputy administrator of the Defense Documentation Center at Alexandria, Va., paid a recent visit to China Lake for the purpose of looking over the DDC terminal, which is set up in the Center's Technical Library. Sauter is shown with C. E. Van Hagan (at right), head of the Technical Information Department, and Snowden LaFon, head of TID's technical Library Division, with whom he discussed the local DDC terminal (one of two such Navy facilities on the West Coast) and its operation.



VOCATIONAL CONSULTANT VISITS NWC—Janice Kay, at left, a vocational consultant with the Career Development Service in Oakland, was here last week to conduct a 3-day seminar entitled Self-Directed Career Development for Women. Mrs. Kay, who while here was also the speaker at a luncheon meeting of the American Society for Public Administration, is shown talking over matters of mutual interest with Eleanor Johnsen, an administrative assistant in Central Staff, whose collateral duty is Federal Women's Coordinator for NWC. —Photo by PHAA Shellie K. Reed

PROMOTIONAL OPPORTUNITIES

Applications for positions listed in this column will be accepted from current NWC employees and should be filed with the persons named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment Division, Code 452, Extension 2649. Current applications (SF-171) or Standard Form 1972 should be submitted bringing your work history up to date if one has not been submitted within the last 6 months. The fact that positions are advertised in this column does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and most recent previous supervisor. Selection shall be made without discrimination for any nonmerit reason.

Clerk-Typist, GS-322-4, PD No. 7350019, Code 5044 — This position is located in Development Division 11 of the Fuze Department. Duties include typing reports, manuscripts, correspondence and procurement actions, arranging travel itineraries, making reservations and typing travel orders, receiving visitors and telephone calls; and receiving and distributing mail. Minimum Qualification Requirements: as defined in CSC Handbook X-118. Job Relevant Criteria: Must be qualified typist.

File applications for the above with Charlotte Sieckowski, Bldg. 34, Rm. 204, Ph. 3118.

Electronics Engineer GS-855-12 or 13, or Physicist, GS-1318-12 or 13, PD No. 7240143, Code 4023 — Design, analyze, synthesize, and evaluate simulation programs of missile flights. Analyzes electrical, electronic, mechanical, and aerodynamic systems and subsystems and their functions. Designs and directs the conduct of simulation programs for digital and analog computers. Maintains technical liaison with scientists and engineers at NWC, as well as industrial, educational, and other military installations. Job Relevant Criteria: Must have a comprehensive knowledge of electronic instrumentation data processing and simulation techniques. Experience in electronic circuitry design for missile guidance and control systems. Thorough knowledge of digital and analog computers and computer simulation of electro-mechanical-aerodynamic systems. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

Clerk-Typist (Typing), GS-322-3 or 4, PD No. 7240037, Code 4023 — This position is located in the Control Systems Branch, Weapons Development Department. Incumbent provides clerical assistance to branch personnel and supervisors. Prepares technical notes, reports and correspondence from handwritten and rough draft copy or machine-dictated notes. Receives telephone calls and official visitors, answers non-technical questions involving branch operations, makes travel arrangements, keeps meeting and travel calendars, assembles material for meetings, prepares stub requisitions, keeps active files of correspondence and project documents. Job Relevant Criteria: Demonstrated telephone reception skills, experience typing administrative and technical subject matter. Knowledge of NWC correspondence, travel, timekeeping, and supply procedures is required. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

Editorial Clerk (Typing), GS-1082-4 or 5, PD No. 7140147-1, Code 4013 — This position is located in the Technical Services Division of the Weapons Development Department. Incumbent reviews technical reports for



GOSPEL MUSIC PROGRAM SET — A male quartet, the Covenant Gospellers, and Charles Magnuson, a well-known pianist (at right), will present a program of gospel music on Sunday, starting at 4 p.m., at the NWC All Faith Chapel. The quartet members are recognized for their albums of recordings, some of which have been singled as tops in the religious field in a given year, as well as for their performances on both radio and television. Magnuson has, for a number of years, been the pianist for the "Baptist Laymen's Hours," an internationally known radio program, and is recognized as one of the finest pianists in Christian circles today. No admission will be charged for the gospel music concert. Instead, a free will offering will be received to help cover expenses of such a program.

Lecture To Be Presented About Collecting, Preserving Flowers

A Maturango Museum-sponsored lecture on "Preserving and Collecting Flowers" will be presented next Friday, April 6, starting at 7:30 p.m. at the Richmond School auditorium.

The speaker will be Joseph M. Keefe, an instructor in plant biology at Cerro Coso College, who will exhibit samples of his floral collections and also will show film slides.

No admission will be charged to this program, which will be open to all interested persons. Keefe is a graduate of the University of California at Santa Barbara with both a bachelor's and a master's degree in botany. He has done extensive collecting of

plant specimens, both for scientific reasons and for artistic purposes in the U.S., Mexico and western Canada for the UCSB herbarium (plant museum) and is now busy starting a local herbarium.

From June to December of last year, he went on an extensive trip for the purpose of adding to his plant collection. His travels took him to South America, the Galapagos, Easter Island, Polynesia, New Guinea, Australia, to Madagascar and its joining islands, as well as to parts of Africa.

Social Security

A representative of the Social Security office in Lancaster will pay another in his regular series of monthly visits to China Lake next Wednesday, April 4.

Persons wishing to obtain a Social Security number or apply for Social Security benefits can do so at the Community Center between 8:30 and 11 a.m.

publication for correctness of spelling, punctuation, accepted English usage and adherence to an established style and format. Lays out individual pages for an entire publication and types copy using various types of composing machines. Job Relevant Criteria: Familiarity with the NWC Editorial Style Guide and experience in the composition and layout of technical equations, figures, and diagrams. (Continued on Page 7)

Library Lists New Books

LIBRARY HOURS: MONDAY-FRIDAY: 2-9 p.m. SATURDAY: 10 a.m.-4 p.m.

Readers are reminded that all employees, regardless of residence are most welcome to use the Center Library.

FICTION

- Brand — Clung. Burland — The Sailor and the Fox. Busch — Takeover. Franklin — Murder Trap. Freeman — Goodbye to Old Friends. Holmes — Two From Gallie. Kosinski — Desert Trail. McBain — Let's Hear It for the Deaf Man. Read — Tyler's Row. Segal — Fairy Tales. Stern — You Don't Need an Enemy. Young — Winter of the Coup. NON-FICTION Atkins — Dr. Atkins' Diet Revolution. Beer — The Second Wife.

- Cobb — Dream House Encyclopedia. Costello — The Desert World. Faulk — Tombstone. Fischer — Bobby Fischer's Chess Games. Fitzgerald — Fire in the Lake. Kishen — Wise Guy, Solomon. McKuen — Caught in the Quiet. Moores — Finding Your Way in the Outdoors. Moorcraft — Must the Sea Die. Rockefeller — Second American Revolution. Rostow — Peace in the Balance. St. Clair — Psychic World of California. Sand — The Everglades Today. Smith — Getting Out. Thorwald — The Patients.

Help Crippled Kids Buy Easter Seals

The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake Lake, California

RAdm. Henry Suerstedt, Jr. NWC Commander

H. G. Wilson Technical Director

C. E. Van Hagan Head, Technical Information Department



DIVINE SERVICES

PROTESTANT Sunday Worship Service 1015 Sunday School—All Ages 0900 Wednesday Noon Bible Study 1130 Sunday School Classes are held in Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite the Center Restaurant. Communion Service First Sunday of the month.

ROMAN CATHOLIC

MASS Saturday 1700 fulfillts Sunday obligation Sunday 0700 0830 1130

BLESSED SACRAMENT CHAPEL

MASS Daily except Saturday 1135 Daily during Lent 1435 First Friday only 1135 1700

CONFESSIONS

Saturday 1545 to 1645 Sunday 0800 to 0825

CCD CLASSES

Sunday Kindergarten thru 6th grades 1015 Wednesday Seventh and 8th grades 1900

Above classes are held in Chapel Annexes across from Center Restaurant. As announced. Ninth thru 12th grades "In Home" Discussion Groups Monthly Youth Rallies Contact Chaplain's Office for specifics.

JEWISH SERVICES

EAST WING - ALL FAITH CHAPEL Friday 1st and 3rd ONLY Sabbath Services 2000 Saturday Sabbath School 0900

UNITARIANS

CHAPEL ANNEX 95

Phones 3354, 3355, 2347 Sunday Services 1930

Opportunities...

(Continued from Page 2)

tables. Experience in the operation of the MTST and IBM composer is desirable. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

File applications for the above with Elizabeth Sodergren, Bldg. 34, Rm. 206, Ph. 2676.

Procurement Clerk (Typing), GS-1164-4, Pos. No. 7025014, Code 2522 — Types, assembles, and distributes purchase orders, delivery orders and other paperwork involved in small purchase and government contracts. Furnishes information regarding procurement status to customers and vendors; receives salesmen; maintains files and records pertaining to procurement. Minimum Qualification Requirements: One year of general experience and one year of specialized supply experience. Job Relevant Criteria: Experience which demonstrates a knowledge of how the following forms should be typed and distributed: purchase orders, delivery orders, requisitions, stub requisitions and blanket purchase agreements. Ability to utilize existing files to determine current status of a procurement transaction. Understanding of the proper procedures a customer should follow in submitting a requisition. Advancement Potential: Procurement Clerk, GS-5 and Purchasing Agent, GS-5 and GS-6.

File applications for above with Claire Lewis, Bldg. 34, Rm. 202, Ph. 2723.

Supervisory Electronics Engineer, GS-855-13, PD No. 6955036, Code 5225 — The incumbent is the Head, Microelectronics Branch, Electromechanical Division, Engineering Department, and has supervisory responsibility for 12 to 15 engineers and technicians working primarily in the development and fabrication of microelectronic circuits and components for Center programs. The branch head will plan and supervise the work of the branch and, in addition, will spend a portion of his time contributing to the conduct of the technical work of the branch. Minimum Qualification Requirements: As defined in Handbook X-118. Job Relevant Criteria: Supervisory ability, preferably in an R&D environment. Background and experience in microelectronic theory and application.

Ability to understand and apply to the technical requirements of a wide range of development programs (e.g. electro optical, microwave, IR signal processing). Coursework, variety of work experience. Supervisory General Engineer, GS-801-13, PD No. 7357006, Code 5722 — The incumbent is the branch head, Training Branch, Ground Operations Division, Engineering Department. The mission of the branch is the planning and conduct of track tests including the responsibility for planning, design and fabrication of track test vehicles, instrumentation, and planning of track range facilities. The incumbent plans and manages the work effort of the branch and assists center project engineers and program managers to plan their test programs to make maximum use of the track test facilities. Minimum Qualification Requirements: As defined in Handbook X-118. Job Relevant Criteria: Ability to supervise. Knowledge of range instrumentation including timing, telemetry and electronic data reduction equipment. Some knowledge of mechanical design theory and practice. Knowledge of safety aspects of handling and firing of ordnance.

File applications for above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.

Clerk-Typist GS-322-3/4, PD No. 7330038, Code 3045 — incumbent serves as secretary to the branch head and performs the clerical and typing duties for the branch members. Duties include typing from rough drafts, letters, memorandums, work assignments, contracts, work requests, travel orders, and reports. Minimum Qualifications Requirements: As outlined in X-118. Job Relevant Criteria: Must be a qualified typist capable of typing official correspondence. Ability to work independently. Must be tactful and accurate in obtaining and providing information.

Contact Administrator GS-1102-13 PD No. 7330039, Code 3021 — Position is that of branch head, located in Program Management Branch, AGILE Development Division. Responsible for system conception formulation, schedules and cost estimating, budget formulation and financial management reporting and documentation, contracting and liaison. Minimum Qualifications Requirements: As outlined in X-118. Job Relevant Criteria: Well rounded background in planning, development cycle and acquisition of weapons systems. Background in procurement management with respect to long range planning and acquisition. Familiarity with technical equipment, systems, and services. Understanding of current management techniques. Experience with changing DOD acquisition policies.

File applications for above with Dora Childers, Code 457, Rm. 210, Ph. 2032.

Harold's Night Set

Harold's Night, an annual event sponsored by the Chief Petty Officers' Wives Club, will be held Saturday at the CPO Club, beginning at 8 p.m.

Door prizes, including a weekend for two persons in Las Vegas, will be awarded. All members of the CPO Club and their guests are welcome to attend.



WORK COMPLETED — Two workmen of the Pacific Gas and Electric Co. remove the asphalt curb at the China Lake Rotary Club's heliport site (across the street from the Ridgecrest Community Hospital) prior to the pouring of an automobile driveway from the highway to the fence. The work, which was performed last Friday afternoon (March 23) was the finishing touch to Phase 1 of the heliport. Dan Butler, a spokesman for the Rotary Club, stated that a dust palliative, which will aid in controlling the dust during helicopter take offs and landings, has been donated by the Golden Bear Oil Co. in Bakersfield, and will be applied soon.

HAPPENINGS AROUND NWC

Kern County 4-H clubs have been asked by the Muscular Dystrophy Associations of America, Inc., to help in the fight against this crippling disease by sponsoring a Tag Day to benefit victims of this illness.

The China Lake Chaparral 4-H Club will hold its tag day tomorrow and members of the club will station themselves at the Shopping Bag Market, in Bennington Plaza, to receive donations.

Money raised by this event will be used to support research projects that are currently underway in a search to find a cure for muscular dystrophy, and also to buy equipment and provide medical services for patients in

Kern County. Local 4-Hers will appreciate the cooperation and generosity of the community during this worthwhile project.

AAUW Plans Potluck

The American Association of University Women (AAUW) will sponsor a potluck luncheon on Saturday at the United Methodist Church, 639 Norma St., Ridgecrest, beginning at 12:30 p.m.

The Desert Gospel Singers will supply vocal entertainment, and a program, featuring four speakers from the California Correctional Institution at Tehachapi, will be presented.

Further information can be obtained by calling Barbara Meggers, at 446-2160.

Movie on 'Big Eye'

A film about the operation of the world's third largest telescope will be presented during the April meeting of the China Lake Astronomical Society.

The meeting, which is open to interested persons, will be held on Monday night, starting at 7:30, at 401-A McIntire St., China Lake.

"To the Ends of Time" is the title of this 27-minute color movie about the 107-in. telescope at McDonald Observatory in Texas.

This large telescope is used with a laser range finder for daily shootings that enable measurements of the distance to the moon to be ascertained within a few feet — thanks to several special reflectors that were left on the moon by U.S. astronauts and bounce the light back to the earth.

GED Tests Slated

Cerro Coso Community College will conduct a series of General Educational Development Tests (GED) in the Business Skills Center at the college on Friday and Saturday, April 6 and 7.

Hours of the tests are from 8:30 a.m. to 3:30 p.m. on Friday, and 8:30 a.m. to 12:30 p.m. on Saturday.

Further information may be obtained by calling Barbara Guzman, the counseling secretary, at 375-1548.

Employee In The Spotlight



Maurice J. Curtis

"If a young fellow just entering Civil Service was to ask my advice, I'd tell him 'Move around. Don't stay in the same place.' That way he'd get to know the Center, how it operates. And also, he'd get to meet a lot of people, and they would get to know his abilities."

Maurice J. Curtis, a staff engineer for the Engineering Department, was reviewing his 28 years at the Naval Weapons Center. "I've seen this place grow and expand," he said. "I've been predicting for years that this Center would tighten up, and it's beginning to do just that. A young professional today has got to be loose if he's going to get anywhere."

Maurice came to China Lake in April 1945. He began as a materials engineer with the Science Department and has stayed right with that organization, which is now known as the Engineering Department, through the years.

Saw Lab Take Shape

"I watched Michelson Lab take shape and helped to set up the Materials Lab inside the building," he explained. Maurice served as head of the Materials Lab until the early 1960s when he became the associate head of the Engineering Department's Quality Engineering Division.

In 1965, he was elevated to his present job.

"I have worked with just about every program on the base at one time or another," Maurice pointed out. "At least, all those that had something to do with materials," he added.

In 1968, he became the technical coordinator for the Solid State Lab.

"I traveled all over, looking at similar labs in private industry, as I helped to design our lab and I wanted to see what others had done," Maurice said. "I decided to profit by the mistake of others. As a result, we have the finest Solid State Lab that I know of," he continued.

Maurice received a Superior Accomplishment award for the work that he performed on this lab.

Began as Chemist

Maurice began his work life as a chemist. He was born in Reno, Nev., but moved to the San Francisco Bay Area while still a child.

He was graduated from Richmond High School, in Richmond, then entered the University of California at Berkeley, where he earned a BS degree in chemistry.

Standard Oil in Richmond became the starting point for Maurice. He switched to PABCO Paints, in Oakland, after a year and then joined the materials engineering staff of the National Motor Bearings Co., also in Oakland.

"When Pearl Harbor was bombed I went to work for the Naval Air Station at Alameda as a materials engineer and stayed there until the war was nearly over," Maurice said. He came to China Lake in April 1945 to work for Harvey Richardson and is a bona-fide NOTS pioneer.

"In the early days I served on the Employees' Welfare Association (the forerunner of the present Community Council), and later I did join the Community Council," Maurice said. In addition, he has served on the NWC Rating Panel

for Professionals, the Recruitment Panel and he also has been treasurer and vice-president of the American Society of Non-Destructive Testing. The highlight of belonging to that group came in the early '60s when he served as the national president.

Maurice is a Toastmaster and pointed out that belonging to that organization has aided him in his work. He is also a past member of the American Society for Public Administration and the American Ordnance Association.

He met his wife, Betty, while they were both on a skiing excursion in the Donner Summit area prior to World War II. "We were both members of the Sierra Club (they are life members) and we were skiing enthusiasts before it was the thing to do," he explained.

They carried on a cross-town romance for a number of years. (Betty was employed in San Francisco with General Electric Co.) and were finally married in September 1944.

Has Three Children

The couple has three children — Lanse, 26, who is attending San Bernardino State College where he is studying psychology; Nancy, 27, who holds a master's degree from UC Riverside and who is teaching in intensive care nursing at Reseda, Calif.

All three of the Curtis children are graduates of Burroughs High School.

Maurice will retire today, ending more than 31 years of Federal service. He and Betty plan to leave the area next week for an extensive stay on the European continent.

"We will spend about a month in England and Scotland, then we will pick up a car in Sweden and tour Europe for five or six months," Maurice said.

His principal hobby is photography and he plans to see all the more interesting sights off the beaten tourist path. They both enjoy traveling and a couple of years ago they spent two months in Europe. "This will be different," Maurice said. "We're going to take our time and see some of the countries we've always been interested in, such as Yugoslavia, Greece and Portugal," he added.

Following this lengthy trip, Mr. and Mrs. Curtis will return to China Lake and make their home in the Indian Wells Valley.



NEW OFFICERS — The China Lake Branch of the Navy Wives Club of America installed a new slate of officers during a ceremony held at the East Wing of the All Faith Chapel. Officers for the coming year, pictured above, are (l.-r.): Vel Boyd, recording secretary; Jane Holtmann, corresponding secretary; Barbara McKee, treasurer; Yvonne Brode, president; Gay Gandolfo, parliamentarian; Margaret Jackman, chaplain, and Bobbie Hurley, vice president. Present for the occasion were Cdr. Larry Gire, Executive Officer of NAF, who was the installing officer, and special guests of honor from the National Navy Wives Club of America. They were Joyce Smith, southwest regional president; Nadina Brown, national membership chairman; Berta Grocket, southern California area council president, and JoAnne Nelson, past national president. Also present were Mrs. D. W. Alderton, wife of the NWC Deputy Commander, and Mrs. Robert S. Moore, wife of the Commanding Officer of the Naval Air Facility.

Branson Bowls 290 Game To Set Association High

Dan Branson, who has been bowling in the local area ever since he was a child (he was born in Randsburg), started off the first game in the Premier League last Monday night with a 3-10 split, which he converted.

He then struck the next 11 times up to record a 290 game — the highest sanctioned game ever bowled in the history of the Ridgecrest/China Lake Men's Bowling Association.

There was excitement galore in that opening game last Monday as RC Jones posted strikes his first nine frames, finally finishing with a 275 game. Neither man, however, recorded a 700 series. Jones finished with 644 pins and Branson notched a 642 set.

Jeff Mattick bowled single game totals of 236 and 226 to wind up with a 640 series, and Keith Morgan was close with 211-203-224 and 638. Dan Ryan shot 228 and 218 tallies, finishing with a 633 series, and Dwight Bartlett recorded a 601 total on games of 200 and 213. George Bowles tallied 600 with

single efforts of 224 and 203. Champ Pearman blasted a 247 single.

The race for the title is going down to the wire again this year. The Loewen's TV keggers will match up with Western Columbia in the position night on Monday, and one of the teams must win two games to sew up the crown. Loewen's is presently one-half game ahead of Western Columbia.

Women's Scratch

Jeanne Crom led the scoring last Monday with games of 201 and 211, finishing with a 558 series. Charlotte DeMarco ran a close second with 556 pins, and Leslie French recorded a 548 set. Maggie Branson was also close, hitting 540, and Sue Emde rode to a 533 series on the strength of a 207 single game.

MarLyn Heeke notched a 522 set and Mary Olsen tallied 511.

Team No. 1 is currently in first place, only 2½ games ahead of the Crestline five and the Frisbees keggers. AV is 3 games back, with just six weeks of play remaining in this league.

Leo Rickmers Tapped To Handle Publicist Chores

Leo B. Rickmers, Jr., an associate field service representative (aeronautics designer) for the Ling, Temco and Vought Aerospace Corp., has taken over the duties of NWC Special Services' publicist.

Rickmers will be covering the happenings of the Special Services-sponsored events at the Center and

student at the University of Texas, at Arlington, Rickmers competed on baseball, basketball, football and track teams.

Rickmers has been at China Lake for the past year. He is a frequent spectator at sporting events on the Center and enjoys playing golf.

He is married to his high school sweetheart, Carolyn, whom he met when they were both members of a Junior Achievement group in high school.

The couple has two children—Brian, 5, and Stephanie, 2.

Rickmers replaces J.B. Hunt as the Special Services publicist. Any help that the community can give to him will be greatly appreciated, Rickmers stated.

Pony/Colt League Needs Help For Coming Season

There are several exciting, interesting and meaningful jobs open to residents of the Naval Weapons Center that apparently no one wants. The work week is only four days long, and the hours are short. No week-end work is required.

These jobs only last six weeks or so, but the rewards can be great. Coaches and managers are needed by the China Lake-Ridgecrest Pony/Colt League. Interested applicants may apply by calling either Dick Drake, NWC ext. 3407, or Joan Fava, 446-2664.

Men's, Women's Golf Tournaments Set

Two golf tournaments will be played in April at the China Lake golf course. The first on the schedule is the Commander's Trophy, slated for April 7 and 8 by the Men's Golf Club.

The China Lake Women's Golf Association will hold its annual Invitational Golf Tournament on Wednesday, April 11.

Entry fee in the Commander's Trophy is \$5 and a sign-up sheet will be located in the clubhouse until entries close on April 4 at 5 p.m.

Chris Peterson, vice-president of the club, stated that free liquid refreshments will be available for golfers entered in this event.

Carol Gove is handling registrations for the women's tournament. An entry fee of \$15 for the 18-hole affair will be charged. "This will include carts, lunch and green fees," Mrs. Gove said.

Maximum handicap for the women's invitational is 36 strokes. All those interested should sign-up at the golf course, or contact Mrs. Gove at 446-3326.



HUSKIES GAIN PLAYOFF BERTH—Mike Wirtz (31), who scored 11 points, dunks another basket in a losing effort as the league-leading Spartans of the Intermediate Division of the Youth Basketball League dropped a thriller, 25-23, in overtime, to the Huskies, setting up a playoff game. The title-decider will take place at 4:45 p.m. today in the Center gymnasium. Huskies cagers attempting to block Wirtz are Ron Scheer (14) and Jamie Bowen (4). Gary Gaut (33), of the Spartans, is seen in the background.

Youth Cage Action Winding Down

In Intermediate Division action of the China Lake Youth Basketball League last Friday (March 23), the Spartans dropped the Bears, 19-6. Danny Drake's 14 points paced the Bruins to a 38-12 scalping of the Indians in the second game.

Junior Division play on the same day began with a blast as the Rockets trimmed the Cavaliers, 21-19, and the Suns outshined the Sonics, 49-27, in spite of Tommy Annos' 14 points in a losing effort. Saturday's Intermediate Division cage play was highlighted

Over-Hill Gang Shoots Straight; Wraps Up Rocking Chair Division

The Over-the-Hill Gang proved to be anything but over the hill by swamping the Red Devils, 64-28, in Tuesday night's China Lake Intramural Basketball League action. This win clinched first place for the Gang in Division C.

Also on Tuesday night, the Tweets finished the season undefeated in Division B-2 as they struggled to a 54-45 win over an



RECORD BREAKERS — Four members of the IWV Swim Team rest at poolside in the Center gymnasium where they each shattered records during time trials held last Saturday. They are (l.-r.): Dicky Dye, who broke records in the 50-yd. backstroke (:35.0) and butterfly (:33.8); Susan Goettig, who established a new time (1:12.0) in the 100-yd. backstroke; Vicki Rungo, who set a :37.0 time in the 50-yd. butterfly, and Ricky DeMarco, the new record holder in the 50-yd. breaststroke (:37.0). Two other swimmers who also set new times, but were not available for the photograph, are John Kleinschmidt, who swam the 100-yd. freestyle in 53.5 sec., and Mike Hamm, who churned the 100-yd. backstroke in 1:04.6. Carol Chatterton, who coaches the team, said that many of the records that were broken had been standing for years.



By Jack Lindsey
The three fellows who I play golf with every weekend are a dedicated lot. Our foursome is very intent on scoring well, and in beating one another, and the competition at times is rather fierce.

We're not especially "good" golfers—I'm a 16 handicapper and the others are either 15s or 14s. What is strange, however, about the group can best be related in a graphic description of play that happened last Saturday.

Ray Marsh hit a shot off into the desert on an especially important hole. "Oh, darn," he muttered. "Golly, I'm in trouble," he added disgustedly.

Glenn Shoblom, who had hit a rather nice tee shot, stood over the ball on his second shot and promptly topped it. The ball rolled about 50 feet down the fairway. "Son-of-a-gun," Glenn said, pounding his club into the ground. "I topped the doggone thing," he finished.

My chip shot on the same hole flew across the green and landed in the sand trap on the other side. "Well, heck, I've put the danged ball into the blasted sand trap," I muttered.

Sound strange? You bet! We three fellows used to turn the air pretty blue when we hit shots like that, but not anymore.

The reason for our nicely-nicely expletives stood over his putt, concentrated, and then pulled the putt off-line, giving himself a double bogey. "Gee whiz, I missed that doggone putt," said the Rev. Murray Boyd, as he leaned over and took the gimme.

Playing with a preacher has certainly refined our game. We still score badly, but at least now we're pretty sure that God is not punishing us.

Top Area Cagers To Appear In All-Star Game

If basketball fans in the local area missed the NCAA/NIT finals this past week, they are asked not to despair. The Naval Weapons Center has its own version of the Wizard of Westwood.

Bill Nicol and Marty Denkin, the Geniuses of the Gym, have planned an All-Star game on Saturday, April 7, which will feature the classiest players of Divisions A and B in the China Lake Intramural Basketball League.

Representatives of Division B will begin the action at 11 a.m., followed by the Division A encounter at 1 p.m.

Some of the notables who will play in the local All Star game include Gordy Irvin, Ron Black, Greg Moore, and many others.

Elementary School Students Rate High in State Tests

Information indicating a high level of achievement on the part of China Lake Elementary School District students who were involved in the state-mandated testing program for the 1970-71 school year was presented by Dr. Sol Spears, district superintendent, in a recent report to the district's board of trustees.

China Lake students in grades one, two and three were tested on their reading ability, while those in the sixth grade were tested not only on reading, but also on language, spelling and mathematics.

For the first time, an attempt was made by state school officials to predict each school district's test scores — based upon a knowledge of certain social and economic characteristics in each district, Dr. Spears noted.

The predicted scores were provided to serve as a "norm" or "expectancy" figure against which the actual scores could be evaluated, and it was felt, Dr. Spears said, that the relationship of the predicted scores to the actual performance by the students would be a more useful indicator of the effectiveness of an individual school district's program, than the test scores themselves.

On the cooperative primary reading test, which was taken by first, second and third graders, the results achieved, compared with the state's predictions for youngsters of the China Lake School District, are as follows:

First Grade — actual score, 90 per cent; predicted score, between 52 and 76 per cent.

Second Grade — actual score, 89 per cent; predicted score, between 57 and 78 per cent.

Third Grade — actual score, 84 per cent; predicted score, between 64 and 82 per cent.

On the cooperative test of basic

skills given sixth graders, China Lake students achieved a score of 86 per cent, as compared to a state-predicted score between 64 and 82 per cent.

In language, sixth graders at China Lake scored 87 per cent, compared to a prediction of between 60 and 82 per cent, while in spelling their actual score was 78 per cent, compared to a prediction of 58 to 79 per cent.

In mathematics, sixth graders from China Lake schools achieved a score of 86 per cent. The state-predicted score ranged from 59 to 82 per cent.

With the exception of the sixth graders' score for spelling, students at China Lake scored in each instance above the state-predicted marks, and the spelling score for sixth graders (at 78 per cent) was just one point under the top level of the state's prediction.

"By comparing our scores to the predictions, we can see that in the areas tested by the state, our students are achieving in a superior manner and our program must be considered to be one of great strength in the academic areas tested," Dr. Spears said.

"Much credit must accrue to the professional staff of the China Lake School District, for they are providing a superior program for our students. They deserve great credit for this fine showing," Dr. Spears concluded.

Talk Slated On Flight Systems' Equipment Tests

A technical lecture on the subject of developing realistic environmental qualification tests for flight systems equipment has been scheduled next Thursday, April 5, starting at 9:30 a.m. in Conference Room A of Michelson Laboratories.

The speaker will be Air Force Capt. Peter A. Homol, who is assigned to the Combined Environments Group of the Air Force Flight Dynamics Laboratory at Wright-Patterson AFB in Dayton, Ohio.

A recent study of equipment failures in operational aircraft showed that most of the environmentally induced failures were caused by combinations of temperature, altitude and humidity.

In addition, the study revealed that existing test specifications are incapable of properly qualifying equipment, and do not realistically simulate the environmental levels in operational aircraft.

In his talk here next Thursday, Capt. Homol will describe the development of test criteria and a model test facility designed to realistically simulate the operational environment of aircraft.

In addition, information on how such a facility can be adapted to temperature and altitude testing of externally carried aircraft stores also will be presented.

Prior to joining the Air Force, Capt. Homol taught in the Physics Department at Ohio State University for three years, and is currently completing his doctoral requirements in physics. He has applied the results of environmental studies to several Air Force weapon systems.



DON'T SQUASH THE SQUABS. Employees in the Charlie Range tower step gingerly when they go in and out of the door on the third deck. The reason for this unusual behavior is pictured above. About a month ago, the men of Code 5713 noticed a pair of pigeons diligently constructing a nest on a metal trough, behind an old radio console that was leaning against the wall on the third deck. Two weeks ago, this pair of healthy squabs was hatched. Tom Doyle, who works in the tower, says the men frequently feed the parents, who are quite tame.



PROCLAMATION SIGNED—Looking on as Charles L. Keene, Jr., master of the Indian Wells Valley Masonic Lodge, affixes his signature to a Public Schools Month proclamation are Rear Admiral Henry Suerstedt, Jr., (at left), NWC Commander, and Kenneth Smith, mayor of the City of Ridgecrest. Both Adm. Suerstedt and Mayor Smith also signed the proclamation, which stresses the integral part that public schools play in the American way of life.

Area Schools Slate Open House Programs in April

A series of open house programs at public schools in the China Lake-Ridgecrest area have been scheduled throughout April, which has been designated Public Schools month.

In cooperation with the Indian Wells Valley Masonic Lodge, a proclamation focussing attention on the part that public schools play in the American way of life was signed this past week by Rear Admiral Henry Suerstedt, Jr., Commander of the Naval Weapons Center; Kenneth Smith, mayor of Ridgecrest, and Charles L. Keene, Jr., master of the local Masonic Lodge.

This special opportunity for parents and other interested persons to visit schools at China Lake during open house programs from 6 to 8 p.m. will begin on Tuesday, April 3, when the welcome mat will be out at the Murray School Annex.

At other China Lake elementary schools, the open house dates are: April 9, Richmond School; April 10, Pierce School; and Murray School, April 11.

At Groves School, plans call for open house activities each day of the week from April 23 through 27.

Special Day Set For Military At Orange Show

A special appearance by Bob Hope and a giant American Legion-Armed Forces parade will highlight "Military Appreciation Day" at the 58th National Orange Show on Sunday, April 1, in San Bernardino.

The serviceman's favorite comedian will perform an evening show at 7:30 in Swing Auditorium as part of the free stage entertainment to be presented by the Orange Show during its 11-day run.

Some 6,000 persons will take part in the parade, which kicks off from Sixth and E streets in downtown San Bernardino at 11:30 a.m. The units will proceed south on E St. to the exposition grounds.

Servicemen and women in uniform will be admitted free to the grounds the entire day.

The National Orange Show will be held in San Bernardino from March 29 to April 8.

WATS Lines To Be Discontinued

The Wide Area Telephone Service (WATS) will be discontinued, effective April 1, as the first step in the mechanization of the Naval Weapons Center's telephone system.

All official calls to areas previously served by the WATS lines must be placed commercially utilizing special billing numbers assigned to the Center's department heads.

Employees placing such calls are reminded to maintain a record of the calls in order to facilitate checking the monthly toll bill.

'Change of Life' Lecture Slated

A lecture on menopause in relation to everyday living will be presented at 7:30 p.m. Tuesday in the Community Center by Dr. Raymond Avuil, a member of the Southern Inyo Medical Group in Lone Pine.

The lecture is open to all interested women. Further information can be obtained by calling Donna Imer at 446-3741.

Talk Re-Scheduled By IWV Bicycle Club

A talk about the care and repair of de-railers, originally scheduled on March 20, will be presented instead at next Tuesday night's meeting of the Indian Wells Valley Bicycle Club.

The speaker will be Jerry Inman, and the meeting, which is open to all interested persons, will be held in Room N-57 at Burroughs High School. The starting time is 7:30 p.m.



SOLD, TO THAT GENTLEMAN! — Tex Hammond, an auctioneer, from the Defense Surplus Sales Office in San Diego, points to a successful bidder during the recently conducted sale of surplus government property held at NWC. The sale brought in \$11,535 for 137 different lots. The final item of the day, a stake truck in excellent condition, went for the highest bid of the day — \$1,050. More than 180 persons registered for the sale, including bidders from Arizona and northern California. —Photo by PHAA Shellie K. Reed

Ex-POW Visits Center...

(Continued from Page 1)
 their support on the home front. During the luncheon, Lt. Rehmann was the recipient of an NWC plaque that was presented to him as a memento of his visit to China Lake by H.G. Wilson, NWC Technical Director.

Lt. Rehmann's visit here was climaxed by a brief appearance at Burroughs High School, where he showed his adeptness at responding to students' questions with a touch of levity—despite the seriousness of the information he had to convey.

The ex-POW expressed his surprise at today's long hair trend among this nation's youth, came out solidly in favor of the pride he feels everyone should have in serving their country, and when queried responded firmly that he believed no funds should go for the reconstruction of North Vietnam until the North Vietnamese have provided the most complete information possible about servicemen on the missing-in-action

list and also have shown a willingness to cut off the sending of supplies to Laos and Cambodia. While sticking with the agreement made with other POWs not to discuss actual prison camp conditions during their confinement until the time when all prisoners have been released, Lt. Rehmann made it plain to his high school audience that the food he and other POWs received left much room for improvement.

Currently an out-patient at the Balboa Naval Hospital in San Diego, Lt. Rehmann will be granted 90 days convalescent leave following his discharge from the hospital. At the moment, however, he's undecided about his future plans.

Photos by
PHAA Shellie Reed



POW MEETS NAVAL OFFICERS — An hour-long rap session in the ready room at the Naval Air Facility provided an opportunity for many questions asked by officers assigned to the Naval Weapons Center to be answered by Lt. David G. Rehmann, who spent six years as a prisoner of war in North Vietnam.

WWII POWs To Hold Reunion In Sacramento

The Sacramento Inn at Sacramento, Calif., will be the setting April 5 through 8 for the second annual meeting of a group of ex-prisoners of war who were among the defenders of Bataan and Corregidor in the Philippine Islands at the outset of U.S. involvement in World War II.

A western states chapter of the American Defenders of Bataan and Corregidor was formed a year ago at a meeting held in Sparks, Nev., by some 40 eligible survivors.

Officers of this select group, including Ralph Levenberg, a former Air Force major (now retired), are attempting to reach others who shared their wartime experiences and invite them to attend next week's reunion in Sacramento.

Readers of The ROCKETEER can obtain additional information by contacting Levenberg, associate director of the NWC Security Department, at 452-B Essex Circle, China Lake, phone 446-6062.



WELCOME EXTENDED—Lcdr. Barry Kunkel, duty officer at NAF when the aircraft bringing Lt. David Rehmann here for a brief visit arrived, warmly welcomed the ex-POW.



BRIEF VISIT ENDS—Ready to board a plane for his return to the Balboa Naval Hospital in San Diego, Lt. David Rehmann flashes a happy smile. He was accompanied here by Ltjg. James Nathwick, who is seen chatting with Jim McGlothlin, head of the NWC Public Affairs Office.



TWO EX-POWs MEET—Common experiences as prisoners of war were shared by Lt. David Rehmann, at left, who was returned recently from North Vietnam, and by Ralph Levenberg, a former Air Force officer, who was on Bataan and was taken prisoner by the Japanese when that Philippine peninsula fell to the Nipponese early in 1942. Levenberg, now the associate director of the NWC Security Department, was among the guests who attended a luncheon honoring Lt. Rehmann during his recent visit here.



INFORMATION GAP BRIDGED — Lt. David Rehmann (second from left), a former POW in North Vietnam, listens attentively to Cdr. Howard Alexander (on left), NWC's Assistant Technical Officer (Air) who, along with others, did their part to help bridge the information gap created by Lt. Rehmann's confinement as a prisoner of war. Others shown in this informal group are Capt. R. S. Moore (center), Commanding Officer of the Naval Air Facility; Capt. T. C. Wimberly, NWC Technical Officer, and (back to camera) Joan Taylor, Public Affairs assistant at NWC.

Varied Research Carried Out at Code 35 Ranges

(Continued from Page 1)

range, and a shielded room for measuring RF components. These five advanced RF measurement areas provide a broad and diverse measurement capability covering a frequency spectrum of 30MHz (Mega Hertz) to 40 GHz (Giga Hertz) at widely varying power levels (up to 1 Kilowatt).

The original facility, consisting of an outdoor antenna range and one anechoic chamber, was constructed for use in the Shrike development program. To meet the needs of later models of Shrike and other advanced anti-radar missile guidance programs, the existing medium size (microwave) anechoic chamber was modified extensively and construction was begun in 1965 and completed in 1966 on a large (VHF) anechoic chamber.

Later, a shielded room was added for RF component testing, and in 1971, due to increased RF measurement workload, the small utility anechoic chamber was built—mainly from surplus materials. In the last decade more than \$2 million has been invested in buildings and instrumentation.

In the past, the RF Measurement Facility was used in direct support of projects within the Electronic Systems Department, such as SHRIKE, HARM, SARM, HARPOON and ERASE. In recent months, however, due to increasingly variable requirements for this facility within the department, it has become practical, from an economic standpoint, to offer the services of the facility to groups outside the department.

Two of the recent, more interesting projects handled for other than NWC customers have been the Viking UHF Antenna tests (designed for use in the Mars probe) and another project under the sponsorship of the Army Security Agency, called TEAM-PACK.

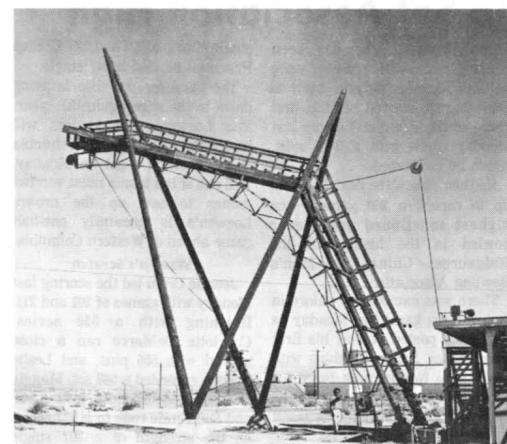
Antenna Range

This range was constructed in 1961 at the tower building in Area R to record radiation patterns of R&D-type antennas and antenna systems. This range consists of an instrumentation area, and two outdoor ranges (elevated and arch).

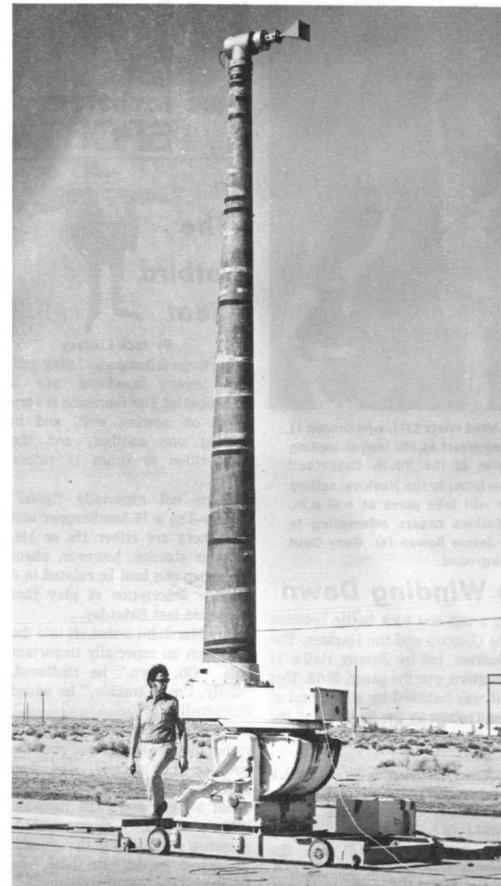
The length of the range is 200 ft. The low frequency limit is 500MHz and it will accommodate test units up to 15 ft. long and 125 lb. in weight. The major use for this range is in testing of avionics systems. M. E. Crawford operates and maintains the Antenna Range.

Microwave Anechoic Chamber

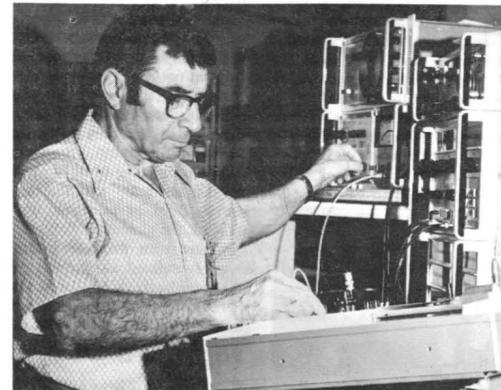
The anechoic chamber at Point Mugu was found to be inadequate for the Shrike project in 1961, hence it was decided to build one on-Center. An old spare parts building was found and refurbishing was begun in January 1962 to house the medium size anechoic chamber. Also housed within this building are 22-ft. long temperature-conditioning chambers that are capable of generating heat ranging from 100 to plus 240 deg. F. The small utility anechoic chamber and the shielded room, discussed separately, are also located in this



THE ARCH — This strange looking apparatus at the outdoor Antenna Range is used for testing vehicular mounted antennas.



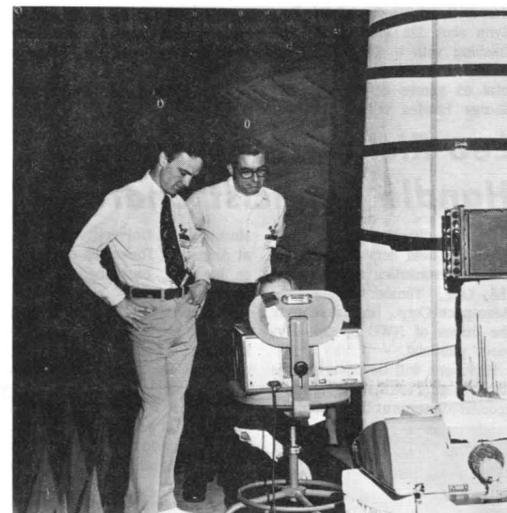
TEST TOWER — The outdoor antenna range is used for testing large pieces of equipment. With this tower, the items to be tested can be elevated as high as 27 ft. to prevent ground reflections. The azimuth elevation positioner can be lowered for ease in mounting the test item. Maximum load limit is 125 lb.



A. A. HEIL is shown performing measurements on RF components.



DICK WOOD is testing a fuze antenna on the Shrike guidance system.



AN ARMY Security Agency project, called Teampack, currently being tested here, required the low frequency characteristics of the large (VHF) chamber at NWC. Above, two of the contractors connected with the tests examine the facilities.

building. W. F. Johnson performs the tests and maintains this chamber.

The microwave chamber has a range 33 ft. in length and will accept items 7 ft. long, weighing up to 100 lb. The low frequency limit is 400MHz. This range is mainly used for testing guidance systems.

Large Anechoic Chamber

The large (VHF) anechoic chamber, maintained and operated by G. W. Gregory, is housed in a specially constructed building. The tapered chamber, 115 ft. long, consists of a pyramidal horn section which flares from a small cross section to a cuboidal region 40x40x48 ft. The range is 65 ft. long and its low frequency limit is 30MHz. Items 10 ft. in length and weighing up to 400 lb. may be tested here, thus the major use is for indoor testing of either large items, or items where low frequencies are required.

Shielded Room

The shielded room is a small 8x12x24 ft. solid, double-clad steel enclosure in the Microwave Anechoic Building. This facility offers high isolation to a wide range of electromagnetic interference for RF component testing.

Small Anechoic Chamber

In 1971, the increased RF measurement workload made necessary an additional anechoic chamber for use primarily in the X-band region. Initial test requirements were such that a small, low-cost chamber with limited instrumentation and capability was all that was needed. The new utility chamber, which was constructed in the Microwave

Anechoic Building and instrumented, mainly from surplus materials and equipment, is 20x10x8 ft. The test range is 14 ft. long, and it has a low frequency limit of 2000 MHz.

The items tested in this chamber are mainly fuze antennas where higher power readings are required to simulate actual conditions of use. Only small items, not more than 4 ft. in length and weighing not more than 50 lb., can be accommodated. R. A. Wood maintains and operates this facility.

Swept-frequency techniques are used to provide automatic recording of impedance, insertion loss, and phase shift over octave bandwidths. The accuracy of the swept-frequency measurements approaches that of a standards laboratory.

Fixed-frequency measurements can be conducted at standards laboratory accuracy. This facility is maintained and operated by A. A. Heil.

Photos by **PHAN D. M. Jenereaux**