

## Players' Search For Two Leading Roles Continues

A China Lake Players spokesman stated that the roles of the Prince and the Princess in their upcoming one-act production for the Bakersfield One-Act Drama Festival, "The Ugly Duckling," by A. A. Milne, still need to be cast.

All persons interested in trying out for either of these roles is asked to come to 405 McIntire St., Monday, March 29, or Tuesday, March 30, between the hours of 8 p.m. to 9:30 p.m.

Chuck Wilcox, who recently won the "Best Supporting Actor's" trophy for the year 1970, will direct the play.

This will be the local areas only entry in the One-Act Drama Festival, which is held yearly at Harvey Auditorium in Bakersfield.



**NEW FEDCO MANAGER—** Neal H. "Robby" Robertson is the new manager of the FEDCO service station at NWC. Robby, a native of Archer City, Texas, was stationed with VX-5 and took his retirement at NWC. He and his wife, Martha have five children: Brenda, 18; Danny, 11; Jimmy, 10; Jeanette, 8; and Stanley, 5. Just prior to his retirement, Robby worked at Desert Motors, in Ridgecrest, under Project Transition.

## Valley Fever . . .

(Continued from Page 1) and attempt to identify desert areas and possible other sources from which they may have contracted the disease. A final goal of this research would be development of a fungicide to neutralize the spore-bearing soil.

This planned investigation will be largely under the direction of Dr. Pierre St. Amand, Head of the Earth and Planetary Science Division. He will be assisted by Dr. Richard Clark of that division, Gerald Whitnack, an analytical chemist in Code 605, and others as appropriate. Dr. Hampson will also collaborate in the study.

Following the seminar, the local and visiting medical officers exchanged views on the most effective methods for treating valley fever.

## 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  
(GP) - ALL AGES ADMITTED  
Parental Guidance Suggested  
(R) - RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian

**FRI 26 MARCH**  
"BURN!" (112 Min)  
Marlon Brando

(Adventure) Professional opportunist is hired to foment a Caribbean revolution to forestall a sugar monopoly and he succeeds only to be hired ten years later, ironically, to destroy the very movement that he previously had created. (GP)

Short: "Ants in the Pantry" (7 Min)  
**SAT 27 MARCH**

—MATINEE—  
"MY SIDE OF THE MOUNTAIN" (100 Min)  
Theo' Bikel

1:00 p.m.  
Shorts: "The Little House" (7 Min)

—EVENING—  
"GUNS OF THE MAGNIFICENT SEVEN" (106)

George Kennedy, James Whitmore  
7:30 p.m.

(Western) They aim to kill—not to please! Kennedy picks up Yul Brynner's role as he rounds up a gang to free a Mexican peasant revolt leader from jail. A W-I-L-D Adventure! (G)

**SUN 28 MARCH**

"THE ARISTOCATS" (37 Min)  
Disney Feature Cartoon  
1:00 p.m. and 7:30 p.m.

(Cartoon) When a wealthy dowager vows to leave her vast fortune to her cats the butler decides to get rid of them. But he didn't reckon with Tom O'Malley, a roving alley cat, and his pals. (G)

Short: "Country Coyote Goes Hollywood" (37 Min)  
**NOTE: SPECIAL MATINEE**

**MON 29 MARCH**  
CHINA LAKE CONCERT ASSOCIATION  
BALLET CELESTE 8 p.m.

**TUES and WED 30-31 MARCH**  
"LITTLE FAUSS & BIG HALSY" (99 Min)  
Robert Redford, Michael Pollard

7:30 p.m.  
(Action-Drama) Cycloracing enthusiasts tour the Western circuit as their opposing personalities are laid bare on the screen. A study of human domination as they live the free life with danger, duels and the dirt track. (R)

Short: "Gee Whizz-z" (7 Min)  
(Readrunner)

**THURS and FRI 1-2 APRIL**  
"THE DEVIL'S BRIGADE" (130 Min)  
William Holden, Cliff Robertson,

Vince Edwards  
7:30 p.m.  
(War Drama) Special Forces unit is created from Canadian and U.S. armies and a rivalry develops that aids in their ferocity as they head up the Cassin campaign. (G)



**BALLET TO PERFORM HERE—Daniel Copich soars over the heads of Kimberly Graves and LaAura Brunnel in "Creole Trio," one of the selections which will be presented by San Francisco's "Ballet Celeste" at the Center Theatre, March 29 at 8 p.m. The Ballet Celeste appeared at NWC in January, 1970, when they performed the Nutcracker Suite. In addition to the Creole Trio, the group will perform "Les Sylphides," "Les Patineurs," "The Black Swan Pas des Deux" from Swan Lake, and "The Grand Pas de Quarte." Tickets for this return engagement are priced at \$1.50 and \$3, and may be purchased from the Center Pharmacy, Loewen's Music Store, and the The Gift Mart.**

## 'Gold Rush Days' Celebration Planned As Costume Affair

The first annual celebration of "Gold Rush Days" will be held in the Indian Wells Valley April 22-25 to emphasize costuming, entertainment and the general atmosphere of the area during the 1849 to 1900 period.

According to the Ridgecrest Chamber of Commerce, the event will be an "1849 Mardi Gras," with a Western flavor. "Everything possible will be done to get the whole population of the Indian Wells Valley into the spirit, and into costume," a CoC spokesman said.

The ultimate aim is to make the streets of Ridgecrest look like a day out of the past.

Each day of the celebration, officials will roam the streets awarding gift certificates to persons in deserving costumes. The gift certificates are redeemable at the store specified on the certificate.

Each participating merchant will keep a box in his store to collect names for a contest. The prizes to be won from each box will be offered by each particular store. Names deposited in the box during the week will be the names of persons who registered while in costume.

The contests will be held Saturday night, April 24, and Sunday evening, April 25, and all prize-winners will be selected at that time.

In addition "Strike-It-Rich" buttons will be on sale before and throughout the celebration. These buttons will be numbered and from time to time a contest will be held, netting the lucky number holders additional prizes.

Free entertainment is planned for the four-day event. The entertainment will be moved to a new location each evening. A melodrama will be presented on a mobile stage in one of the parking lots of the business district, and on another night, barbershop singing will be offered along with community singing in which the audience will receive awards of \$1.25, \$2.50 and \$5 for use in participating stores in Ridgecrest.

The Kern County Park will be the site of Sunday's festivities and will take the form of an old-fashioned picnic with participants bringing their own lunches. Participation events are planned for the afternoon with time allowed for the contests for the store prizes and for the final costume contest.

From \_\_\_\_\_

TO \_\_\_\_\_

PLACE  
STAMP  
HERE



**FOGGY CLOUD—**That could be the name of this photograph, but it is the name of a Fog-dispersal program now being conducted jointly by the Naval Weapons Center and various other federal and civilian agencies. (Details of the program are described on pages 4 and 5). Above, during one of the tests conducted at McKinleyville, Calif., an

Army CH-54 SKYCRANE helicopter is shown dispersing a portion of a shallow fog layer with its downwash. Other tests conducted over the past three years have included seeding layers of Fog with hygroscopic particles which extract water vapor resulting in a "drying" of the atmosphere. —Photo by Marty Shelton



Vol. XXVI No. 12

Naval Weapons Center, China Lake, California

Mar. 26, 1971

## Mar. 21-27 Declared POW/MIA Week

The President of the United States has proclaimed the week of March 21-27 as a national week of concern for prisoners of war and those missing in action in Southeast Asia. The President's proclamation is supported by a joint congressional resolution calling for support and concern for the prisoners of war and missing in action and protesting the inhumane treatment of these men and their families.

Seven years ago this week, the first US prisoner still being held by the enemy was captured in Vietnam. There are presently 372 Navy-Marine Corps prisoners and missing in Southeast Asia.

In a message to all hands from the Honorable John Chafee, Secretary of the Navy, the Secretary expressed his wholehearted support by calling on all Navy and Marine Corps commands to provide support to civic groups engaged in activities in support of the prisoners.

"These men and their families deserve our highest consideration and support. Let us pause this week to honor them and pray for their safe return and for the well-being of their families," he said in the recent message.

The plight of American prisoners held by enemy forces in both North and South Vietnam has been well documented. Likewise, the anguish of the prisoners' families and the

families of the more than 1,000 Americans listed as missing in action has been for many years the concern of millions of persons throughout the world.

In 1957, representatives of North Vietnam agreed to adhere to the 1949 Geneva Convention relative to the treatment of prisoners of war. Articles of the Convention include:

Prompt identification of prisoners, Adequate diet and medical care for prisoners, Communication with other prisoners and their families at home, Prompt repatriation of seriously wounded and ill prisoners, and

(Continued on Page 3)



**WEEK OF CONCERN FOR POW-MIA—**In conjunction with the President's proclamation for the week of March 21-27 to be observed as a National Week of Concern for POW-MIA, Dick Mello (c) and Mrs. William Beasley, members of the local civic group active on behalf of the POW-MIA, presented Capt. A. E. May, Deputy commander, with a bumper sticker that calls attention to the efforts in behalf of our POW-MIA. To support this cause, the local committee will distribute literature, bumper stickers, and letter seals this week at the Bank of America on Friday, and in front of the Shopping Bag Market on Friday and Saturday when donations in support of the POW-MIA cause will be accepted.

# John McKenna NWC Bluejacket

## Ohio Native Chosen For His Outstanding Attention To Duty

AT-1 John J. McKenna, Avionics Shop night supervisor at VX-5, has been selected "Bluejacket of the Month" for March. McKenna, who has been in the Navy for 11 years, is a native of Akron, Ohio, but now calls Norfolk, Nebraska his home town.

Selected for his "outstanding" duty performance, as well as his appearance and military bearing, McKenna was pleasantly surprised at his "good fortune."

"I really like it here," he stated in an interview. "The area and its climate, the duty, and my neighbors and friends, make NWC a fine place to live and work."

McKenna met his wife in Norfolk, after his discharge from the Navy in 1961. He had a friend who lived in Norfolk, so he and the friend went there to seek employment. Sheila Marie was working as a waitress and following their marriage, John re-entered the service.

The couple have two children, Melinda Ann, 6, and Patrick John, 4.

### Trip to Bakersfield

As a result of his selection, McKenna and his wife will be hosted to an expense-paid weekend to Bakersfield by the Greater Bakersfield Chamber of Commerce. The couple will stay at the Imperial 400 Motel, and will take their meals at Sambo's on Union Avenue.

In addition, prior to leaving the local area, the McKenna's will be given a new Ford from Doug Butler at Desert Motors, to use on the fun-filled weekend.

Once in Bakersfield, the March Bluejacket will be given free gift certificates from Bakersfield merchants, and a hospitality packet containing discount coupons from other merchants in the local area.

Also, he will be interviewed on KERO-TV for re-broadcast on a



AT-1 John McKenna

later news program.

McKenna has many interests, including: the study of Naval warships; photography; small arms; woodwork; Aerospace technology; and staying abreast of current events. He is an avid reader and said the mailman is "glad to get by my place, as we usually get a load of magazines."

Sheila has recently taken up sewing and plans on making clothes for herself and the children, but strictly as a hobby, the March Bluejacket pointed out.

While with VP-10, stationed at Brunswick, Maine, McKenna pulled some very interesting duty which included anti-submarine surveillance, ice surveillance, shipping surveillance, and in the line of duty made many trips to Newfoundland, Iceland, the Azores and Bermuda. While with VP-10 he was an airborne Radio Operator and Airborne Sonics Operator.

The McKennas reside at 113 Carricart, in Wherry Housing.

### Met This Week

## MESWG Seminar Meets To Discuss Valley Fever

A seminar sponsored by the NWC Medical, Engineering and Scientific Working Group (MESWG) was held last Monday to discuss the feasibility of local research on valley fever (coccidioidomycosis), a disease endemic to this area. Joining selected MESWG members in the seminar were medical officers from Edwards AFB and NAS, Lemoore. Other visitors included Dr. Bruce Chandler of the Drummond Medical Group, Dr. C. Ross Hampson, Kern County bacteriologist and Mrs. Anna Marie Gordon, Kern County public health nurse.

Dr. Hampson, an authority on valley fever, led off the seminar with an illustrated talk on the nature of the disease, its prevalence, known "hot spots" where the disease-causing fungus thrives, etc. In subsequent discussion, it was agreed that the incidence of the disease (an average of 200 reported cases per year in Kern County) and its

severity warrant a Center-supported effort to combat it. It was pointed out that during World War II, when troops maneuvered throughout the California desert area, valley fever was a significant military problem.

The approach considered most practical would involve chemical analysis of the soil known to contain the offending spores. This analysis would attempt to identify the common soil characteristics which cause the spore to thrive in the "hot spots." The physicians at the seminar also agreed to screen patients with valley fever whom they see over the next six months

(Continued on Page 8)

|                             |   |
|-----------------------------|---|
| <b>Inside . . .</b>         |   |
| Cum Laude Singers . . . . . | 2 |
| Navy Relief Pins . . . . .  | 3 |
| Sports . . . . .            | 6 |
| EM Club Opens . . . . .     | 7 |



**CHOIR CANTATA—**The Protestant Choir of the All Faith Chapel rehearses "The Seven Last Words of Christ," by Theodore Dubois, to be

performed Wednesday, March 31 at the main chapel. The congregation invites all NWC residents to attend. —Photo by PH3 Tony Curiale



**LENGTH OF SERVICE AWARD**—In recognition of his 30 years of Federal Service, Frank W. Easter (r) of the Fuze Dept. Planning Staff, accompanied by his wife, was presented a pin by B. F. Husten, Head, Fuze Dept., during ceremonies held in the department office this week. Easter has been in missile fuze research at the Corona Annex for the past 13 years; he worked 9 years at Point Mugu; also he has worked at Bremerton and Long Beach Navy Ship Yards; and was working at Pearl Harbor on December 7, 1941—the day it was attacked, starting World War II. Easter has a BS in Electrical Engineering from Colorado University, and has done graduate work at UCLA in space technology and advanced electronics. A long-time member of IEEE, he also belongs to the Society of American Value Engineers (SAVE). —Photo by Ronald Gray Mills, USN

## 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 2049. Current applications (SF-171) or Standard Form 172 should be submitted bringing your work history up to date if one has not been submitted within the last 6 months. The fact that positions are advertised in this column does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and must reflect previous supervisor. Selection shall be made without discrimination for any nonmerit reason.

**Supply Clerk (Card Punch)**, GS-2005-3 or 4, Code 2591—Operates key punch machine, maintains files, processes incoming documents, and types correspondence, reports and other documents for the branch. Assists in Telmat operation. Minimum Qualification Requirements: One year of office or clerical experience for the GS-3 plus one year of experience in supply or a related field for the GS-4. Job Relevant Criteria: Should be a qualified typist and must be capable of operating a key punch machine. Promotion Potential: GS-3 to GS-4.

**Clerk Typist**, GS-322-3 or 4, Code 252—Personal and telephone contacts with representatives of business and industry, collection and presentation of data concerning contracts and related areas, typing of correspondence and preparation of charts and graphs. Minimum Qualification Requirements: For the GS-3 level, one year of clerical experience which included a significant amount of typing; for the GS-4, two years. Job Relevant Criteria: Knowledge of graphs and charts as methods of presentation is desirable; must be a qualified typist. Promotion Potential: GS-3 to GS-4.

File applications for above with Naomi Campbell, Bldg. 34, Rm. 206, Ext. 2118. **Supervisory Supply Clerk**, GS-2005-5, 25753—In a supervisory capacity, insures prompt processing of receipt documents and delivery of material to meet established schedules. Trains subordinates in processing of documents and in key punch operations and procedures. Minimum Qualification Requirements: One year of general clerical or office experience plus two years of specialized experience in supply work or closely related activities. Job Relevant Criteria: Must have working knowledge of the key punch machine. Clerk-Dmt, GS-314-5, 6002—Provides clerical support to the Research Department administrative staff. Duties include typing budgetary information, technical correspondence forms, reports from tapes, acting as alternate control point for classified documents, maintains department files and records. Minimum Qualification Requirements: Three years of appropriate experience, which included use of the dictating machine. Job Relevant Criteria: Familiarity with scientific terminology is desirable. File applications for above with Naomi Campbell, Bldg. 34, Rm. 206, ext. 3118. Mail & File Clerk GS-305-4 PD No. 7155019 Code 5500—Position is located in the Department Office of the Engineering Dept. Incumbent is responsible for processing and routing of official and unofficial incoming mail and arranging and controlling of incoming and outgoing messages, classified documents and (Continued on Page 7)



**SHOOT'N STARS! SKY DIVING?**—Whatever—our mummies and daddies are going! Are yours? Interested? Ask a WACOM member. (Do not call the Rocketeer.) Remember—60-71 May 8.

## Cum Laude Singers Here For Chapel Gospel Rock Concert

A group of 23 high school and college students will sing at the Protestant Chapel service Sunday, March 28, at 10 a.m. Calling themselves the Cum Laude Singers, they are a Gospel-Folk, Gospel-Rock group who have specialized in contemporary worship music. Jane Andringa, pianist for the group, arranged all their music, which is intended to convey in a new and different way, the message of Christ and His Love.

The Cum Laude Singers come from the Bellflower-Artesia area, near Los Angeles, and have sung at the Long Beach Auditorium, a number of hotels in the Long Beach area, and in almost all of the military bases in Southern California. Recently they recorded an album for Ralph Carmichael and light records titled "Talk About His Love."

On Saturday evening, March 27, they will sing for a chapel family covered dish dinner, slated to begin at 6 p.m. Accompaniment is composed of two guitars, drums and piano. Persons interested in attending the covered dish dinner may call the Chapel office for further information.

All services are open to the public.

### Inventory Date

#### Moved To April 1

The date for the inventory planned for the Commissary Store has been changed to April 1, instead of March 29, as originally announced. The Commissary Store will close for inventory on April 1, and will open for business as usual April 2.



The Cum Laude Singers

## PROMOTIONAL OPPORTUNITIES

(Continued from Page 2)

Instructions. Qualification Requirements: 2 years of progressively responsible experience in mail and file work or in related areas, 6 months at GS-3 level or 1 year at GS-2 level. Job Relevant Criteria: Ability to exercise initiative and judgement in application of pertinent regulations, procedures, and instructions; experience in handling classified material; experience in routing mail, searching files, and classifying or cross-referencing files material. Fact, courtesy and capacity for effective public contact is essential. Typing ability is desired. Advancement Potential: GS-5 upon demonstrated ability to perform all duties of position with minimum supervision.

File applications for above with Joan MacIntosh, Code 457, ext. 2371. **Budget Officer**, GS-540-13 or 14, Code 172—The incumbent of this position is Head of the Programs and Budget Staff. Is responsible for the planning, implementing, and monitoring of, as well as advising on, the Station's utilization of resources, i.e., manpower, facilities, funding. Minimum Qualifications: 3 years general and 3 years specialized as stated in X-118.

**Management Analysis Officer**, GS-343-13 or 14, Code 172—The incumbent of this position is Head, Management Division. Is primarily responsible for providing Center management with management staff services which include staff advice, consultation and assistance in general management matters. Minimum Qualifications: 3 years general and 3 years specialized as stated in X-118. File applications for above with Mary Morrison, Bldg. 34, Rm. 210, Phone 2032.

**Motion Picture Production Specialist**, GS-1071-5 or 7 (Code 7523)—This position is located in the Film Projects Branch of the Technical Information Department. The primary function of the Branch is production of technical film reports in support of Naval Weapons Center programs and activities. The incumbent will edit film and all types of sound tracks into completed motion pictures—both "A" and "B" type productions. Will assist cameramen, do stock footage library reports, will insure sound recording and transfer quality and other miscellaneous duties. Minimum Qualifications: GS-5, 3 years and GS-7, 4 years. Job Relevant Criteria: A formal education in film production is desirable. File Application with Mary Morrison, Bldg. 34, Rm. 210, Phone 2032.

**Clerk-Typist**, GS-322-2, 3 or 4, Code 4002—This is a trainee job leading to Department Personnel Clerk. The Department Personnel Clerk prepares all requests for Personnel Action, Clearance, Reentry, Awards, and Promotions. Processes new and terminating employees. Prepares personnel reports, charts and tables on the continuing and ad hoc basis. Maintains liaison between Division offices, Department office and Personnel Department. Works with training requests, does filing and record keeping. Minimum Qualification Requirements: GS-3, completion of High School and passed Civil Service Test; GS-3, 1 year general experience; GS-4, 2 years general experience and 1 year specialized in accordance with Handbook X-118. Advancement Potential: This position has advancement potential to GS-4 based on incumbent's ability to fulfill job requirements. File applications for above with June Chipp, Bldg. 34, Rm. 204, Phone 2674.

**Laborer (Heavy)**, Code 4552, (3 vacancies), WG-03—Performs any one or a combination of a large variety of unskilled or low skilled tasks requiring predominantly physical exertion of a heavy or arduous type. Qualifications: J-Element Standards. Must possess (or obtain) valid Navy Driver's License up to 2½ ton. Job Relevant Criteria: Should be able to use single hand tools and be familiar with trade terminology and equipment. Promotion Potential: Could lead to Ordnance Learner, WG-04. File above applications with Pat Gaunt, Bldg. 34, Room 202, Phone 2723.

THE NAVAL WEAPONS CENTER, CHINA LAKE, CALIFORNIA ANNOUNCES A COMPETITIVE PROMOTION EXAMINATION FOR FOREMAN (METAL WORKING SHOPS), WS-38950-10. APPLICANTS MUST FILE CARD FORM NAVEXOS-4155AB, STANDARD FORM 172, AND SUPPLEMENTAL WAGE GRADE SUPERVISORY INFORMATION SHEET WITH THE SPECIAL EXAMINER, CODE 452, CHINA LAKE, CALIFORNIA TO BE RECEIVED OR POSTMARKED BY APRIL 12, 1971. FORMS MAY BE OBTAINED FROM THE PERSONNEL BLDG., ROOM 100, CHINA LAKE, CALIFORNIA.

### Queries On Housing

Questionnaires for the Center's annual Housing Requirements Survey have been mailed to a limited number of civilians and military personnel. The data collected through the survey is used to establish and support our needs for private housing. Time schedules are such that it will be necessary for these forms to be completed and returned by 5 April. Your cooperation in insuring prompt return will be appreciated.

## Employee In the Spotlight



Martin S. Denkin

Martin S. Denkin, Youth Activities Director at NWC, has been chosen this week's Employee in the Spotlight. Since coming to his present assignment in April, 1969, Denkin has initiated many changes in the structure of the Youth Center. At present, 955 youths are card-carrying members of the Youth Center program, an increase of more than 500 since his arrival. "When I reported here the kids had one room and no outside equipment," Denkin said. "There were approximately 400 children who took part in the youth activities, and this was a 'registration' basis."

Since that time the Youth Center basketball program has been expanded as has the girls' softball program.

Denkin has been instrumental in beginning a regional boxing program, sponsorship of pop concerts by the Youth Center, and was a co-founder of the Reality Program with Tom Boggs.

Last Year Denkin managed the Youth Center-sponsored Angels baseball team which won the Pony League title, and was the All Star team manager which took the Area Championship.

A graduate of Los Angeles State College, Denkin has been a California resident for 18 years. He was the Athletic Director and Assistant Executive Director for the

Eastside Boys Club in Los Angeles for eight years, where he co-ordinated Youth Activities as a Community Relations Officer.

One of the boys Denkin worked with during that period was Ruben Navarro, who Denkin now co-manages.

"Through recreation it is possible to 'bridge' the generation gap and become closer to the youth of our area," Denkin said. "This is one of the things I hope to accomplish here. I feel this is best done in a one-on-one situation, and this is the thought which guides me in my work."

Denkin, his wife Rachel, son David and daughter Jackie reside at 307-A Tyler, on the Center.

## School District Summer Program

Applications are currently being accepted from persons interested in employment as teachers and as aides in the summer program. This program will be conducted from June 28 through July 30 by the China Lake Joint School District. Applications can be obtained at the China Lake Joint School District Office, located on the Murray School campus.

Teachers not holding regular credentials cannot be considered this year unless provision is made by the State Board of Education specifically authorizing such service. To date no indication has been received that this permission

will be granted.

In filling the teacher aide positions, first consideration will be given to college and high school students who have worked in the program before, according to Andrew Petach, Principal of the Summer Program. Consideration is next given to college students, high school seniors and high school juniors.

The 1971 Summer Program will be open to all students of the Rand, Trona, Indian Wells Valley and China Lake School Districts presently enrolled in Kindergarten through grade 7. Registration materials will be distributed soon



**THIS WON'T HURT A BIT**—Capt. Thomas D. Stephenson, NWC Dental Officer, prepares to inject DTI R. J. Denbrook with six more years of Naval service. Denbrook, a 16-year veteran, was re-enlisted by Capt. Stephenson in ceremonies attended by his wife, Sharon Kay, and four children: Denise, 10, Roy, Jr., 9, Douglas, 7, and Theresa, 4. Denbrook will soon depart NWC for Camp Pendleton.

## The Rocketeer

Official Weekly Publication  
Naval Weapons Center

China Lake, California  
RADM. W. J. Moran, USN  
NWC Commander

H. G. Wilson  
Technical Director

K. H. Robinson  
Head, Technical Information Department

William P. Valente, Jr.  
Editor

Jack C. Lindsey  
Staff Writer

Lucille Edwards  
Editorial Assistant

PHCS C. E. Bruce, PH1 D. C. Manderscheid,  
PH2 Delmar E. Hart, PH3 Anthony Curiale,  
PH3 Ronald G. Mills,  
Staff Photographers

**DEADLINES:**  
News Stories ..... Tuesday, 4:30 p.m.  
Photographs ..... Tuesday, 11:30 a.m.  
The Rocketeer receives American Forces Press Service material. All are official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NavExos P-35, revised July 1958. Office at Nimitz and Lauritsen.  
Phones ..... 3354, 3355, 2347



**Protestant (All-Faith Chapel)**—  
Morning Worship—10:00 a.m.  
Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant.

**Roman Catholic (All-Faith Chapel)**—  
Holy Mass—5:00 p.m., Saturday (Fulfills Sunday obligation); 7, 8:30 and 11:15 a.m. Sunday.

Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. First Saturday, 8:30 a.m.

Confessions—4 to 5 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.

## Pony League To Hold Tryouts For 14-Year-Olds

The NWC Pony League will hold tryouts for 14-year-olds on Saturday, March 27, on the Pony League diamond.

Boys whose birthdates are between August 1, 1956 and July 31, 1957, are league-age 14. Boys whose last names start with A through M will try out at 8 a.m., and boys whose last names start with N through Z will try out at 10 a.m.

A special registration for all boys ages 13 through 17 will also be held in conjunction with the tryouts. President "Robbie" Robinson urges all boys eligible to register as the Colt League registration is lagging.

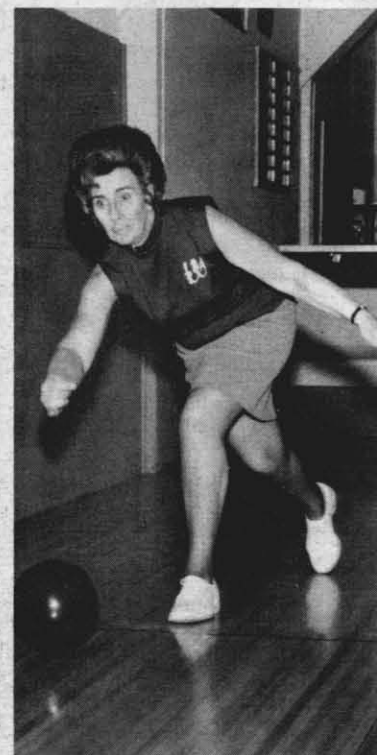
Boys who do not try out will not be eligible to play during the regular season, Robbie cautioned, so boys unable to try out at the scheduled time should contact player agent Del Mathis, 375-9027, to arrange for an alternate try out time.

## Final Registration For Little League Slated Tomorrow

The final registration date for the China Lake Little League will be held Saturday, March 27, from 9 a.m. until Noon at Diamond 4 (across from the bowling alley). All boys ages 8 to 12 who have not already signed up are asked to do so at this time.

In addition, Dick Hughes, president of the Little League, has announced that boys, ages 10 to 12, who were unable to attend tryouts for the Major League, will be able to do so on Saturday.

## CARE USE EASTER SEALS



**TO HOLD CLINIC—Helen Duval**, California Women's Bowling Association (CWBA) field representative, will visit NWC April 4 to hold instruction clinics at the China Lake Bowl and at the Ridgecrest Bowl. All men, women and children interested in bowling are invited to attend. Times will be announced. The holder of a 200 average and winner of many titles, Mrs. Duval's visit was arranged by the local Women's Bowling Association.



**NEW GREEN FEES—China Lake Golf Club** pro Paul Someson and pro shop attendant Vicki Gerhart post new rates for the golf course, including a non-consecutive month membership for individuals and families. Green fee and membership rates are as follows:

| Green Fees                | Weekdays      | Sat., Sun. & Holidays |
|---------------------------|---------------|-----------------------|
| Active Enlisted           | 75 cents      | \$1                   |
| Officers, civilian guests | \$2 9 holes   | \$3 9 holes           |
|                           | \$3 18 holes  | \$5 18 holes          |
| Membership                | Single        | Family                |
| Annual monthly            | \$12          | \$17                  |
| Non-Consecutive Monthly   | \$16          | \$23                  |
| Active Duty, Enlisted     | \$2 per month |                       |

## Kern County Board Of Trade Pays Visit To Local Area

The Naval Weapons Center, among other areas of Indian Wells Valley, was visited by the Kern County Board of Trade on Wednesday, March 24 when the county economic board convened in the adjacent city of Ridgecrest this week. The special visit of the Board of Trade to the Valley was hosted by the Ridgecrest Chamber of Commerce.

### NWC Participation

J. H. McGlothlin, NWC Public Affairs Officer, accompanied Ridgecrest city officials in meeting the visitors at the Inyokern Airport and remained with them throughout their day-long visit.

Representing the Center, Capt. A. E. May, NWC Deputy Commander, and Dr. Walter B. LaBerge, NWC Deputy Technical Director, attended a civic luncheon with the board members and local Chamber officials at the Hideaway in Ridgecrest.

Following the luncheon a special program was presented to the visitors at NWC's Michelson Laboratory. They were officially welcomed to the Center by Capt. May and then shown films on "Laboratories of the Naval Weapons Center"; "Bits and Chips", a film concerning the Machine Shop; films and slides of the Indian Wells Valley community.

Wade W. Allen, Community Relations Assistant for the Center,

assisted in coordinating the visit with Ridgecrest officials and accompanied them on their visit to Michelson Laboratory, their inspection of the new East Kern community college site, and on tours of the various industrial, commercial and residential developments in the local area.

In addition to the Board of Trade, members of the Kern County Board of Supervisors, led by Chairman LeRoy Jackson, and other county officials participated in the meetings.

## Aetna Agent At Community Center March 30, 31

The Aetna Insurance Representative, Mr. Howard Keenan, will be at the Community Center next Tuesday and Wednesday, March 30 and 31, from 9 a.m. until 4 p.m. on Tuesday and from 9 a.m. until 3 p.m. on Wednesday.

## Jolly Roger News

Bob Furey, manager of the Jolly Roger, has announced that the "Chain of Fools" will return to the EM Club this weekend, Friday and Saturday, March 26 and 27.

Music for dancing will be from 9 p.m. until 1:30 a.m., both nights. All members and their guests are cordially invited to attend.



## R.C. Jones Hits 679 As Allied Sets Record

R. C. Jones, anchor-man for the Allied Automatic vending squad, rolled two games of 245 and a 679 series to lead his team to a new three-game high at Hall Memorial Lanes. The Allied keggers put together games of 1077, 934 and 1018 for a 3029 series, high for the year, in the Premier League.

John Ito, another member of the team, rolled 202 and 238, posting a series score of 632. Other members of the team assisted in the scoring: Craig Rae had 200 and 213; Byron Nelson rolled a 225 as did John Dowd.

The standings of the Premier League were shuffled a bit last Monday. Allied and B&F Liquor (who won three games) moved a mere one-half point ahead of NAF, and Mercury Movers slipped by Dean's Pro Shop and back into eighth place.

There were many 600-plus series rolled: Bill King, 214-213-212 (a stairstep) and a 639; Chuck Cut-singer, 215 and 218 for 627; Ralph Brewer, 224 and 208, 627; Dick Furstenberg 222-200 for 621; Jack Herbstreit, 216 and 610; Floyd Maxwell, 226 and 605; Tom Short, 205 and 215, 603; and Earle Roby, 227 and 601.

Dick Bauers rolled 237; Robbie Fuller, 221; Dean Lippincott, 218; Ken Dalpiaz, 213.

Friday Mixed 4-Some  
Maggie Branson, secretary of

the league, reported some very high scores bowled in the past two weeks. On March 12 Jack Lindsey pounded out a 203-245-233 for a 681 series. Chuck Cut-singer had 206-226-207 for a 639. Other big games on that night included: Lorraine Johnson, 210; Willie Johnson, 208; Bob Vorwerk, 220; Jack Leininger, 203 and 233; Floyd Maxwell, 229; Ray Freascher, 221 and Jack Brown, 222.

On March 19 Dean Lippincott fashioned a 669 on games of 212-212 and 245. Thad Brightwell had a 608 and Dick Tolkmitt scored a 606. Darlene Herbstreit hit 603 which included games of 202 and 203 and Maggie Branson rolled a 224 series.

Patty Maxwell had a nice 222 game, and a 552 series. Maggie Branson hit 572 and Willie Johnson 525.

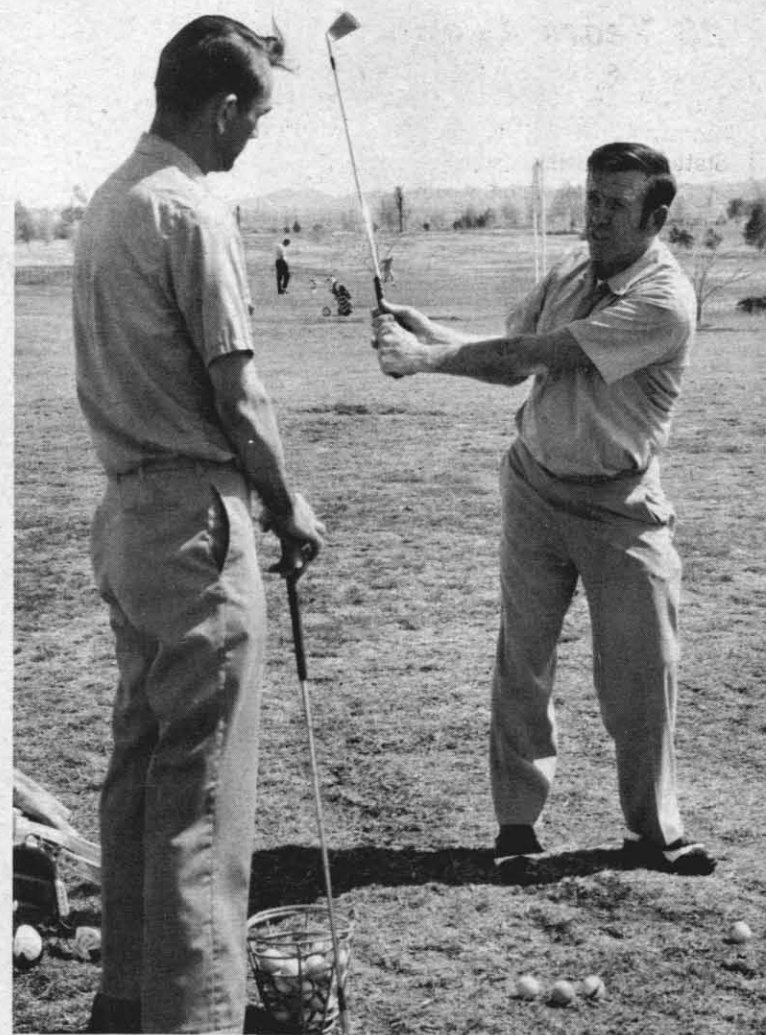
Floyd Maxwell rolled a 223, D. Noland, 210, Allen Smith 214, Jack Lindsey, 231, and Ernie Bevis 239.

### Women's Scratch

Sue Haack recorded a 571, followed by Pat Stone with 538 and Erma Erickson with 537. Rosie Pelley was one pin behind with 536. Sue had a 237 game in her trio and Miss Stone a 218. Willie Johnson rolled a 217, Wanda Billings a 211 and Rosie got a 205. Erma had a 204.

### Ding-a-Ling's

Adeline Bensene was high with 511 and Diane Blose rolled a 201.



**SPRING CLASSIC ON ITS WAY—Jim Kincheloe**, last year's runner-up in the Dewing Spring Classic, gives an impromptu lesson to Norman Parks in preparation for this year's Classic, April 7-9. The tournament schedule calls for four foursomes to tee off at 7:30 a.m. each day, with the rest of the players in a shotgun start at 12:30 p.m. Non-tournament golfers will be allowed to play in the morning, but must be off the course by noon. All military personnel at NWC are eligible to play in the Classic.

## GOT A MINUTE?



**AMERICAN SERVICEMEN RETURNED FROM NORTH VIETNAM PRISONS HAVE REPORTED INHUMAN TREATMENT BY THEIR RED CAPTORS. HANOI WON'T TELL US THE NAMES OR THE NUMBERS OF OTHER AMERICANS STILL LANGUISHING IN THEIR PRISONS. PRISONERS PROBABLY THINK WE'VE FORGOTTEN THEM. IF YOU HAVEN'T, HERE'S A WAY TO HELP: WRITE A LETTER!**

## POW/MIA Week . . .

(Continued from Page 1)

Protection from abuse and reprisals.

For the most part, North Vietnam has not abided by these articles. Recently, however, an effective letter writing campaign seems to have had some effect in establishing contact with, and providing some comfort for, these unfortunate men, many of whom are being held virtually incommunicado, with little or no contact with their families or the outside world.

It has been disclosed that fully 75 per cent of all mail received from prisoners in North Vietnam has arrived since October, 1969, although more than 200 prisoners have been held captive for longer than four years. There has been no word at all concerning another 1,000 men listed as missing in action. The increase in mail was coincident with intensified letter-writing and other activities by wives of both prisoners and those missing in action, including appeals to government leaders, throughout the world.

Anyone can try to help these men by writing, unofficially, to one or more agencies concerned with their welfare. One of the best such activities is the National League of Families of American Prisoners in Southeast Asia.

Persons wanting to make a more direct appeal may consider writing directly to the Office of the President, Democratic Republic of Vietnam, Hanoi, North Vietnam.

In all cases, letters should be confined to remarks concerning the humanitarian treatment of prisoners.

Other agencies and publications to which persons may write include:

**UNITED NATIONS**  
Secretary General U Thant  
United Nations Headquarters  
New York, N. Y. 10017

### CAMBODIA

Mr. Thay Sok  
Charge d' Affaires  
Embassy of Cambodia  
4500 16th St., N.W.  
Washington, D.C. 20011

Agence Khmere Presse  
Ministry of Information  
Phnom Penh, Cambodia

Le Depeche Du Cambodge  
Phnom Penh, Cambodia

### FRANCE

His Excellency  
Charles Lucet  
Embassy of France  
2535 Belmont Road, N.W.  
Washington, D.C. 20008

Delegation of the  
Democratic Republic of Vietnam  
8, Avenue General Leclerc  
94 Choisy-Le-Roi  
Paris, France

Madame Nguyen Thi Binh  
Representative of the  
Provisional Government of  
South Vietnam  
49 Avenue Cambaceres  
Vierrieres - Le Buissons  
91 Essone  
Paris, France

### INDIA

His Excellency  
Nawab Ali Yavar Jung  
Embassy of India  
2107 Massachusetts Ave., N.W.  
Washington, D.C. 20008

### LAOS

Prince Souphanouvong  
c-o M. Sot Pethrasi  
Neo Lao Hak Sat  
Representative  
Vientiane, Laos

### SWEDEN

The Honorable Torsten Nilsson  
Minister of Foreign Affairs  
Stockholm, Sweden

His Excellency Hubert de Besche  
Embassy of Sweden  
2249 R St., N.W.  
Washington D.C. 20008

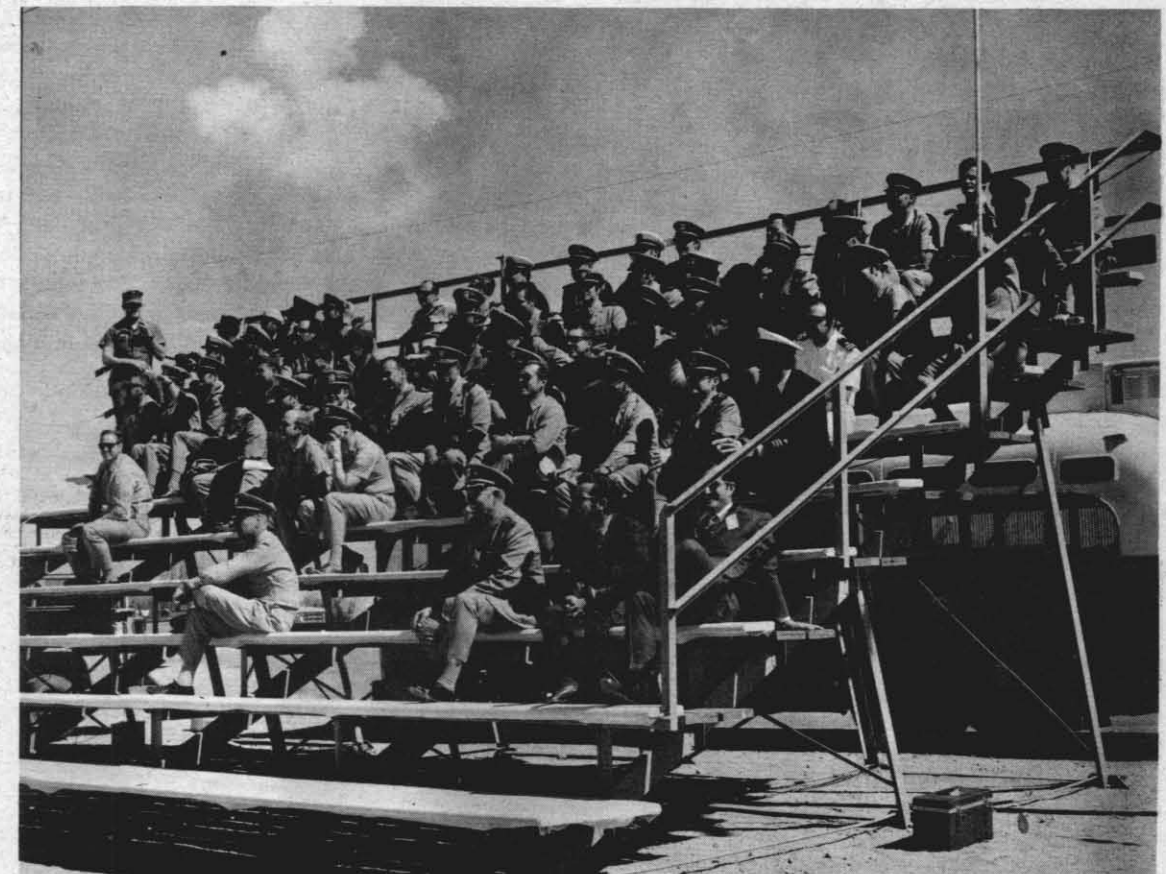
### U.S.S.R

The Honorable Andrei Gromyko  
Minister of Foreign Affairs  
Moscow, U.S.S.R

His Excellency Anatoliy F. Dobrynin  
Embassy of the  
Union of Soviet Socialist Republics  
1125 16th St., N.W.  
Washington, D.C. 22236



**PREPARE FOR WILDFLOWER SHOW—Mrs. Ruth Moran, Mrs. Clare Hunter, Mrs. Polly Zimmer and Mrs. Ditty Riggs** prepare a dried Wildflower Show, May 1 and 2 at the Community Center. A branding iron, spurs and a copper kettle complement the arrangement, completing the theme "The Old West Revisited."



**FIELD TRIP—Navy and Marine Corps Reserve officers** are shown at Charlie Range where they witnessed a weapons delivery demonstration. The officers were at NWC as part of a field trip during

a two week law seminar sponsored by the Commander, Amphibious Force, U.S. Pacific Fleet, in San Diego. During their visit here they also received a briefing on current NWC projects.



**NAVY RELIEF VOLUNTEERS AWARDED PINS—Capt. A. E. May, Deputy Commander of NWC**, presented pins to Navy Relief volunteers (l-r) Mrs. Barbara Schell, Mrs. Barbara Rinehart, and Mrs. Sandra Bozony for 100 hours each of volunteer service devoted to Navy Relief, and to

Mrs. Joan Ellefson for 1,000 hours of Navy Relief service. Mrs. Jean May, Chairman of Volunteer Women of Navy Relief, also attended the ceremonies held in the Deputy Commander's office this week.

—Photo by PH3 Ronald Gray Mills, USN

# Fog-Dispersal Program 'Foggy Cloud'

## NWC Joins With Other Agencies To Combat Effects Of Warm Fog

The deleterious effects of "Fog" on military as well as civil activities are well known. Delays in arrivals and departures as well as frequent reroutings of scheduled airline flights are not only inconvenient but also expensive, and result in annual financial losses that run into the millions of dollars. Traffic jams and multi-vehicle accidents on our nation's highways have frequently occurred, and military air base and shipping activities have been seriously hampered as a result of this phenomenon. Indeed, fog-related losses, including personal injury and death, have been staggering! Unless the problem of reducing the effects of fog is soon solved, losses can be expected to maintain pace with the ever-increasing activity in areas of transportation and logistics.

At the Naval Weapons Center, a continuing series of experiments in warm fog dispersal is in the process of being conducted under the direction of Dr. Pierre St. Amand, Head of the Research Department's Earth and Planetary Sciences Division, and Project Director Dr. Richard Clark.

Known as Project "Foggy Cloud," the approach has been to seed various layers of warm fog with hygroscopic agents and to measure the relative effects.

The experiments have been conducted over the past three years, during the fog seasons, at the Arcata-Eureka airport at McKinleyville, California, which has a high incidence of dense fog during the summer and fall months of the year. The projects were named Foggy Cloud I, II, and III respectively and were conducted jointly, or in collaboration, with various other military and civilian agencies, namely: the Army's Atmospheric Sciences Laboratory, White Sands Missile Range, New Mexico; the Navy Weather Research Facility, Norfolk, Va.; the Air Force Cambridge Research Laboratory, Bedford Mass.; Cornell University Aeronautical Laboratory; local units of the FAA and Bureau of Standards, Arcata; and the Department of Aviation, Humboldt County.

Foggy Cloud I was a "screening phase." During this period many materials and seeding techniques were employed in an effort to isolate the most promising. The project has progressed from this early stage through the on-site development of a most promising dispersal agent, in September 1968, and the technique which best complements the agent effectiveness, in September 1969.

The fog dispersal agent developed is a solution of ammonium nitrate, urea and water. Ammonium nitrate and urea are fertilizers commonly used in agriculture. This solution has been laboratory tested and its extreme hygroscopic nature confirmed. In corrosive tests it was found, in general, to be less corrosive than sea water. Since its development in 1968, this solution has been the agent of choice for all NWC project fog-dispersal testing.

### Progress Noted

During the early course of testing in Foggy Cloud II, summer

1969, nearly all seeding was accomplished at or near the tops of fogs and several flight patterns were still being examined. Late in the project season, findings indicated that while measurable effects were noted in many cases, operationally significant clearings were achieved only on fogs no greater than 500 feet thick. It was also noted that rapid, repeated treatments to the same fog volume increased the degree of clearing. These findings led to the technique of seeding, in the fog, at an altitude no greater than 500 feet above fog base. Subsequent on-top seeding was accomplished only if the fog thickness was 500 feet or less. In addition, a "dog bone" flight pattern (so named for its appearance on a radar plot as a straight line with hooks on each end) was found to be most effective for rapid, repeated treatment.

The success of an experiment is dependent upon precise operational procedures. In general, these procedures are as follows:

1. A pre-operations briefing is held about two hours before sunrise.

2. Ground-based observers, data collectors and support personnel are deployed and commence assigned tasks.

3. Two light aircraft, one equipped with special meteorological instrumentation (minilab plane), and the other with an aerial camera (photo plane) are launched and commence preseed fog sampling and photographic documentation.

4. The seeder aircraft is launched, acquired by radar, and kept under control.

5. A balloon-borne weather radiosonde is released to provide a vertical profile of fog properties and a vector wind is computed. This wind is used to determine the movement of the fog and to resolve the problem of targeting. Targeting is necessary in order to place the treated fog volume over the airport at the desired time.

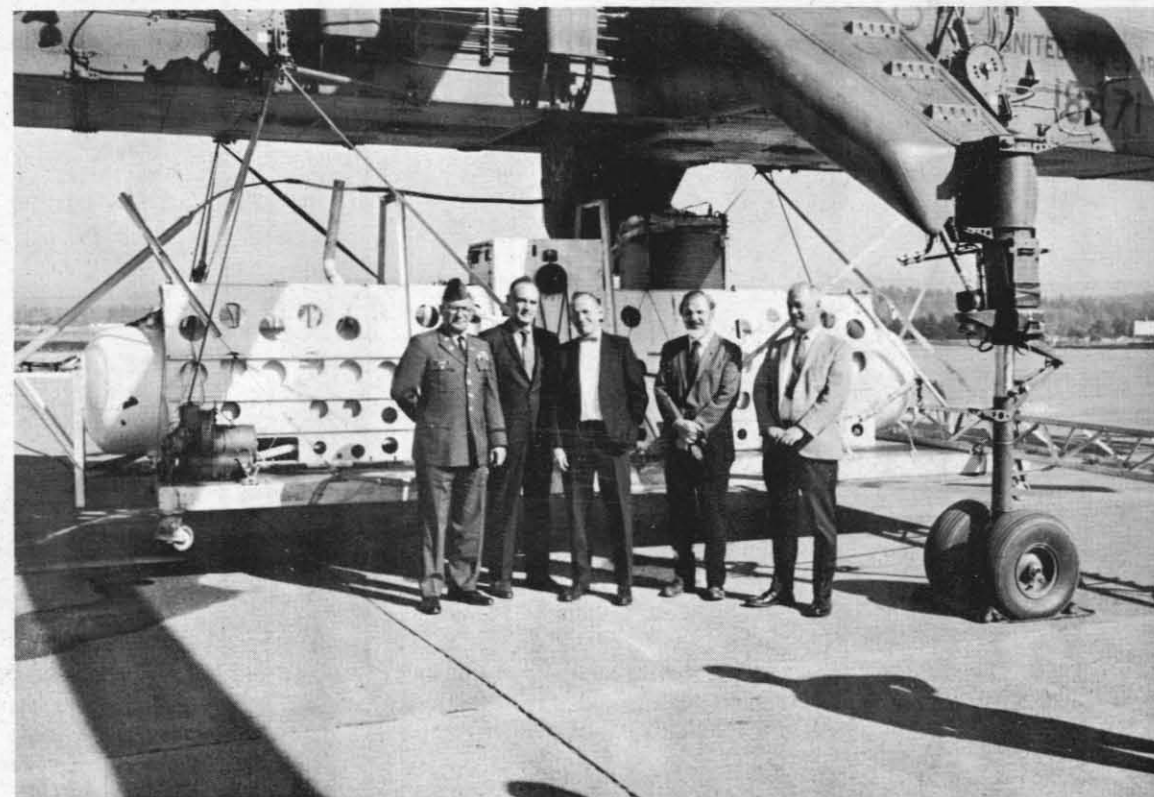
6. Near sunrise, the seeder aircraft (under radar control) begins seeding. Duration of seeding time may vary but averages about 30 minutes. During this time eight to ten successive treatments to the approaching fog volume are accomplished.

7. Data collection continues for one hour after the end of seeding, at which time all aircraft return to base.

8. A post-operations debriefing is held.

To date, over a hundred fog-dispersal tests have been conducted during the Foggy Cloud series. As previously stated, measurable effects were noted in many cases; however, the "proof of the pudding" lies in operationally significant clearings, or the ability to improve fog conditions at an airport to permit normal flight operations. Using this criteria, the present Foggy Cloud "state of the art" indicates promise of high effectiveness.

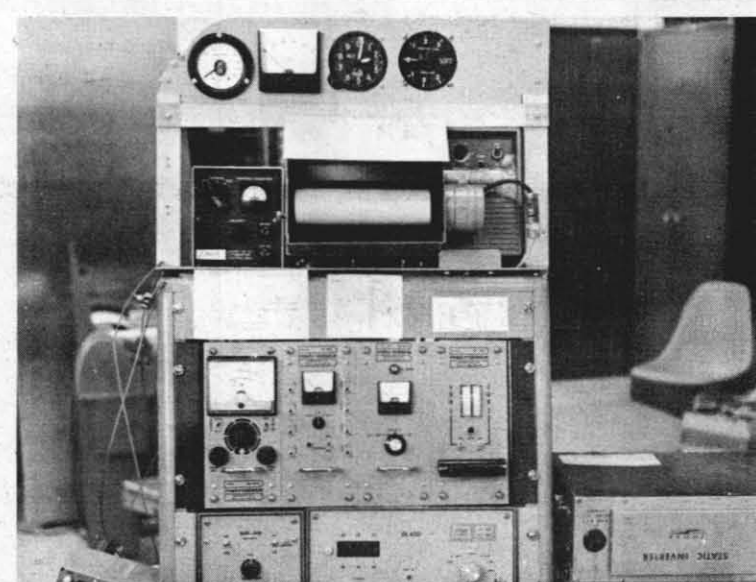
In addition to actual fog-dispersal tests, a near equal number of support tests have been carried out. Support tests were accomplished to provide background knowledge necessary



**JOINT EFFORT**—Project FOGGY CLOUD has been a joint effort in collaboration with other federal and civilian agencies. In addition to the NWC's work, effort has been expended by the Army's Atmospheric Sciences Laboratory, White Sands, N. M.; Dr. Vincent Hanoman, U.S. Army Scientific Advisory Committee; Alex Blometh, Head of the Atmospheric Physics division at the White Sands Missile Range; Dr. Pierre St. Amand, Head, Earth and Planetary Sciences division, NWC; and Dr. Richard Clark, NWC, Project Director.

Army CH-54 SKYCRANE helicopter used in the tests. Left to right they are: Col. Richard Chabot, C. O. and Director of the Army's Atmospheric Sciences Laboratory, White Sands, N. M.; Dr. Vincent Hanoman, U.S. Army Scientific Advisory Committee; Alex Blometh, Head of the Atmospheric Physics division at the White Sands Missile Range; Dr. Pierre St. Amand, Head, Earth and Planetary Sciences division, NWC; and Dr. Richard Clark, NWC, Project Director.

—NWC Photo



**FLYING LAB**—A Cessna 337 was equipped with a Mini-lab (inset) for measuring various atmospheric parameters such as temperature, dew-point, liquid water content and altitude of a target fog environment.

to sound test planning. While much has been learned, unexplored areas and ideas still exist.

During the latter portion of Foggy Cloud III, 1970, a series of tests using an Army CH-54 "Skycrane" helicopter were planned jointly with the Army's Atmospheric Sciences Laboratory, White Sands Missile Range. Due to inadequate fog conditions planned tests were incomplete; however, it was demonstrated that a helicopter of this type can disperse relatively shallow (200-300 ft.

thick) fogs at an airport with its downwash only. It is hoped that planned tests can be continued in the near future.

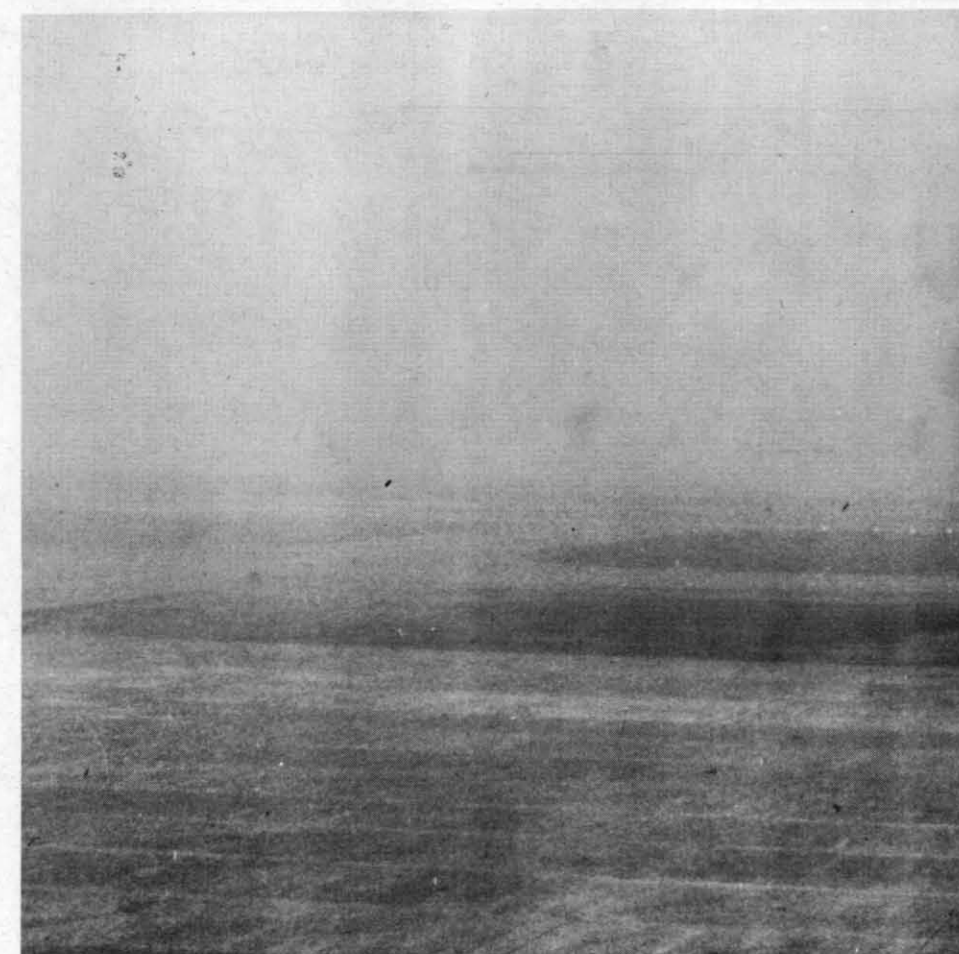
Future plans for Foggy Cloud (Foggy Cloud IV) include continuing the fixed-wing fog-dispersal testing at Arcata during the upcoming months of August and September. Efforts will be directed toward further improvement of targeting techniques and increased operational effectiveness.

An innovation, again being

planned jointly with the Atmospheric Sciences Laboratory, will see a set of experiments employing a manned, hot-air balloon. These experiments will measure the effects of injecting electrostatically charged particles into a fog.

As many as 200 personnel from NWC have had some role in the execution of Project Foggy Cloud. Current active NWC participants are as follows:

(Continued on Page 8)

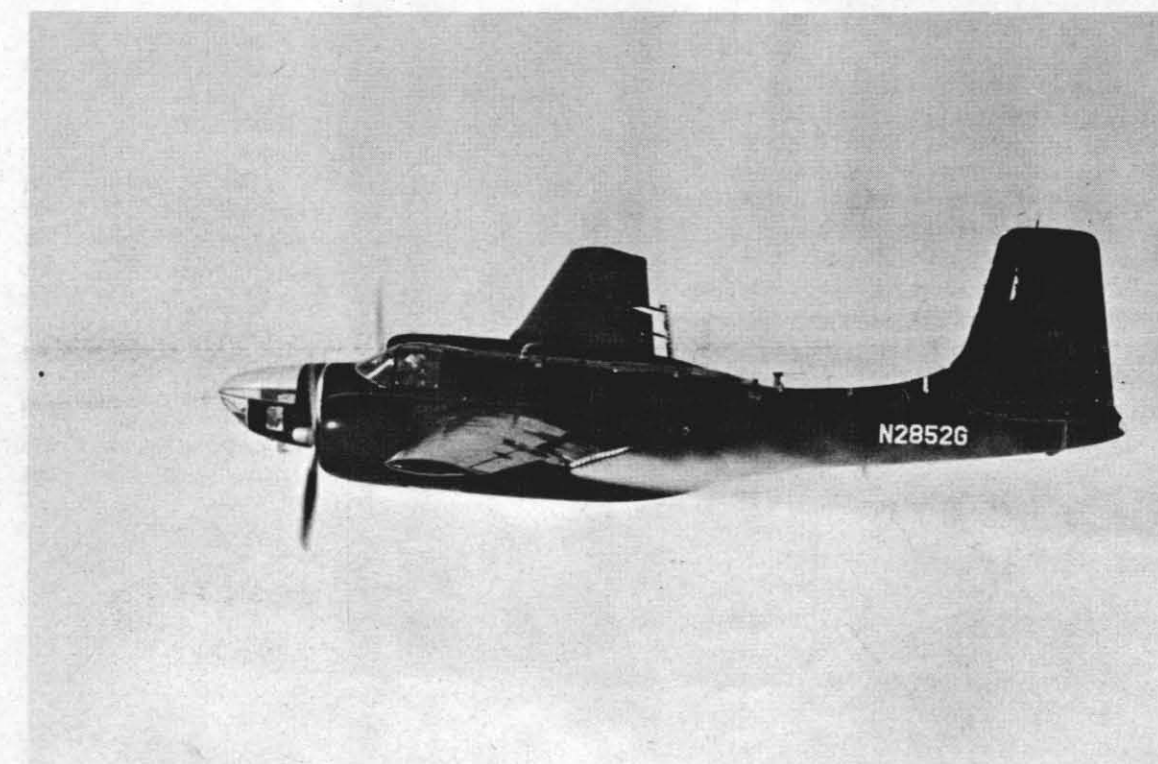


**TYPICAL FOG-CLEARING SEQUENCE**—The photo at left is the usual environment for FOGGY CLOUD testing. When this ground-level shot was taken, the airport was closed with a ceiling of less than 100 feet and visibility was less than one-quarter mile. At right, the same area was photographed twenty minutes later, following "seeding" by project



aircraft. Conditions improved to a ceiling of 300 feet and visibility was increased to 1 mile. This test was conducted in the Arcata-Eureka area at the McKinleyville, California, airport on September 28, 1970.

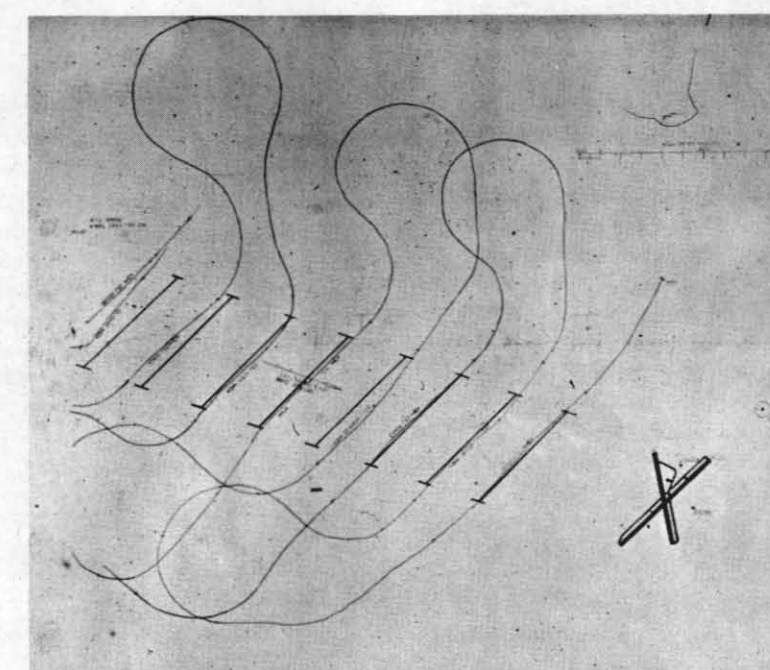
—NWC Photo



**SEEDER AIRCRAFT**—The above World War II vintage modified B-26 was used as one of the "Seeder" aircraft in Project FOGGY CLOUD experiments. The plane is specially equipped with

a 1,000 gallon agent-dispersal tank. A modified DC-7 equipped with a 3,000-gallon tank was also used.

—Aircraft photos by Marty Shelton



**SEEDING TECHNIQUE**—After a great deal of experimentation, a "dog bone" flight pattern (so named because of its appearance on a radar plot as a straight line with hooks on each end) was found to be the most effective technique for rapid, repeated treatment. The technique is used at an altitude no greater than 500 feet.

## Scientific Facts Basic To 'Foggy Cloud'

### Warm and Cold Fogs

Fog can be simply defined as a cloud, based at the earth's surface, consisting of suspended, minute drops of water in a saturated atmosphere. If the temperature is above freezing fogs are termed "warm." If the temperature is below freezing fogs are called supercooled or "cold." Operational dissipation of cold fog has been a reality for several years. This type of fog can be "snowed out" with the injection of dry ice, silver iodide or propane. Ninety-five per cent of the fogs in the inhabited area of the earth are warm fogs.

### Approach

Project testing to date has, for the most part, consisted of measuring the effects caused by spraying various hygroscopic agents into fogs. Hygroscopic means having an affinity for water. Common table salt is an excellent example. These hygroscopic particles absorb water vapor from the fog atmosphere and grow to a large enough size to begin falling. This extrusion of water vapor effects a drying of the fog atmosphere with a subsequent evaporation of the liquid fog drops. As these particles continue to fall through the fog, growth is further increased by the collection of droplets in their path. This "sweep-out" results in a light rain or drizzle at the surface, followed by improved visibility.