



ARBOR DAY PLANTING—Members of the Flower Power Junior Garden Club water a 9-ft. California Sycamore tree that the club recently planted at the new playground area in Desert Park. They are, left to right: Phillip Hewett, Lori Ray and Robin Burton. The tree was purchased with the prize money that the Junior Garden Club and the Oasis Garden Club won at the Desert Empire District Flower Show held at the Community Center last October. Club members will water the tree until the automatic watering system is completed. —Photo by PH2 M. F. Krause

SHOWBOAT

MOVIE RATINGS FOR PARENTS AND YOUNG PEOPLE

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

X NO ONE UNDER 17 ADMITTED
(Age limit may vary in certain areas)

ALL G, GP and R FILMS RECEIVE THE SEAL OF THE MOTION PICTURE CODE OF SELF-REGULATION

FRIDAY **APRIL 3**
"THE LAST ADVENTURE" (102 Min.)
Alain Delon, Lino Ventura, Joanna Shimkus
7:00 P.M.

(Adventure/Drama) Three adventurers in France whose lives had met with failure go on a treasure hunt in Africa for a gold cargo lost in a sunken airplane of a rich white settler. (GP)

Short: "Deep Sea Hunt" (9 Min.)

SATURDAY **APRIL 4**
—MATINEE—
"BILLY" (87 Min.)
Patty Duke
1:00 P.M.

Shorts: "Chips Ahoy" (7 Min.)
"Frank & Jesse James" (13 Min.)

—EVENING—
"THE CRAZY WORLD OF LAUREL, HARDY & W. C. FIELDS" (143 Min.)
Classic Laugh-Fest
7:00 P.M.

(Comedy) The rosiest of motion pictures—the perfect family film! Slap-stick of the 20's with the greatest comedy-team and deviser of gags and laughs Stan Laurel and Oliver Hardy... and the all-time classic comedian W. C. Fields. DON'T MISS! (G)

SUNDAY-MONDAY **APRIL 5-6**
"BATTLE OF THE BULGE" (140 Min.)
Henry Fonda, Robert Ryan
7:00 P.M.

(War/Drama) Suspicions of a Lt. Col. that something is being planned by the Germans in Ardennes Forest, are overruled by high command and then come the Tiger tanks and infiltration. (M)

TUESDAY-WEDNESDAY **APRIL 7-8**
"SWEET CHARITY" (151 Min.)
Shirley Maclaine, Sammy Davis, Jr., Ricardo Montalban
7:00 P.M.

THURSDAY-FRIDAY **APRIL 9-10**
"IMPOSSIBLE YEARS" (97 Min.)
David Niven, Lola Albright
7:00 P.M.

(Comedy) The funniest film ever made of an authority on the raising of children, who can't raise his own teenage daughter. Her wacky boy friends, the hippies cyclist, the poolside party are all a riot of laughs! (G)

Short: "Lucky Pink" (10 Min.)

Full Slate of Fun and Dancing At Jolly Roger

According to Jim Moore, Assistant Manager of the EM Club, the Jolly Roger will have dancing both Friday and Saturday, April 3 and 4. On Friday night, the "Third Surprise" will play for clubgoers, and on Saturday evening "Third Street Shop" returns to the local scene.

Hours for the entertainment both nights are 9 p.m. until 1:30 a.m. Bob Furey, Manager of the Jolly Roger, invites all members and guests to come out and enjoy an evening of fun and dancing.



WEINBERG LEAVES NWC—Mike Weinberg, right, manager of the Club Chaparral since November, 1968, hands over the keys of the local nitery to his assistant manager, Joe Sheets, who will assume the duties of manager. Sheets and Weinberg were both assistant managers of the Club until Weinberg was promoted to manager, and had worked together since August, 1968. Sheets has announced that a group named "Hard Luck Incorp." will play for a dance Friday and Saturday, April 3 and 4, from 9 p.m. until 1:30 a.m. both nights. The new manager cordially invites all members and guests to attend and to get acquainted with him and his staff. —Photo by PH3 M. V. Dias

Youth Center To Sponsor Dance And Concert at Community Center

The China Lake Youth Center will sponsor a combination concert and dance on April 3, from 8 p.m. to 12:30 a.m. at the Community Center.

The nationally known "Drifters", noted for their celebrated hit "Under the Boardwalk", will be in concert with the "Everyday People" group which plays everything from hard rock to blues.

Dances are open to all teenage NWC dependents and their guests between the ages of 13 and 20. General admission is \$2.00 and Teen Club members will pay \$1.

Square Dance Club
The forming of a teen age square dance club was celebrated with a recent graduation dance. Cdr. Sheldon Bates, Head, Command Administration Dept., presented the diplomas. Jay Oliver, president of the High Desert Square Dan-

cers Association and Mrs. Oliver, parents of the graduates, and members of the Cactus Squares and the Jim Dandies Square Dance Clubs attended the graduation.

Bruce Zagala is president of the Square Dance Club, which has been named the "Tumbleweed Twirlers". Other officers are: Denise Duncan, vice president; Anita Vang, secretary; Steven Sidnev, treasurer; and Jerry Butler, refreshment chairman. Bill Grady is caller-instructor and Lucille Grady, Dick and Nancy Butler, and Ellen Cott are adult advisors. Marty Denkin is Youth Director and Carol Hape is Program Director.

The Square Dance Club meets at the Community Center on Tuesdays from 6:30 to 8:30 p.m., and the public is invited to visit the dancers.

From _____

TO _____

PLACE STAMP HERE



Vol. XXIV, No. 13 Naval Weapons Center, China Lake, California Fri., April 3, 1970

Second Installment

Merit Promotion Plan Described

As of February 4, 1970, Capt. M. R. Etheridge, NWC Commander, formally approved the Center's new Merit Promotion Plan which is designed to assure open and equitable competition of employees and the selection of the most able person to fill vacant positions.

The following material is the second segment in a series of three on the subject that began in last week's issue of the Rocketeer. The material will be concluded in the April 10 Rocketeer publication.

A minimum area of consideration may be partially extended if, in doing so, the area of search is guaranteed to be intensive. For the following positions, the minimum area of consideration as described above can be considered intensive even when it may fail to produce three or more highly qualified applicants: clerical positions, GS-4 and below; scientific and engineering positions, GS-9 and below; technician positions, GS-7 and below; administrative positions, GS-9 and below and ungraded positions at or below the journeyman level.

The NWC Commander can limit the area of consideration to the minimum area of consideration for specific durations of time to facilitate placement actions as a result of externally imposed requirements such as manpower ceiling cuts and major budgetary cuts that may necessitate a reduction in force.

For position vacancies at grade GS-14 and above, and for Group Superintendent positions, the minimum area of consideration will be Navy wide.

Locating Candidates

All positions will be publicized in either the Rocketeer's "Promotional Opportunities" column or by appropriate announcements posted on official bulletin boards. Such advertisements will cover at least the Center and will remain open for a minimum of one week.

Each advertisement will contain the following information: position title, series, grade, PD number and organizational location; description of the duties to be performed; minimum qualification requirements; job relevant criteria and/or selective placement criteria; advancement potential if any; and how to apply.

The following methods of locating qualified applicants must be used: Under utilization file referrals; Reemployment Priority List, Centralized Referral System and employees who failed to receive proper consideration in prior merit promotion; qualified employees absent on military furlough, or with reemployment rights will be referred for promotional vacancy consideration; late applications will be accepted from employees on leave status or official travel during the entire period of vacancy publicity up to one week after their return or the date of selection, whichever is sooner; and the Voluntary Application File will be maintained as a device to consider qualified

Navy employees who have filed applications for consideration for that type and level of vacancy. Such applicants will be expected and permitted to update their Voluntary Application File application annually. Applicants who do not confirm their continued interest by updating their applications annually will be assumed to be no longer available and their applications returned to them.)

Other means of advisement, such as described under "Area of Consideration" may be used to supplement the above method of locating candidates. In addition, management referrals of names can be made to guarantee that every effort has been made to obtain the best qualified applicants available.

Determining Eligibility

In addition to meeting minimum qualification requirements, certain positions require selective factors that are essential to performance in the position to be filled. If pertinent, these selective factors may be used in determining basic eligibility. If rated ineligible on a selective factor, the employee must be notified as to the specific factors he lacks.

The Federal Personnel Manual provides examples as guides to appropriate selective factors. On initial assignment to graded positions listed in X-11-8, Part II, Section IV, employees must first pass the appropriate written test as required by the Civil Service Commission Standards.

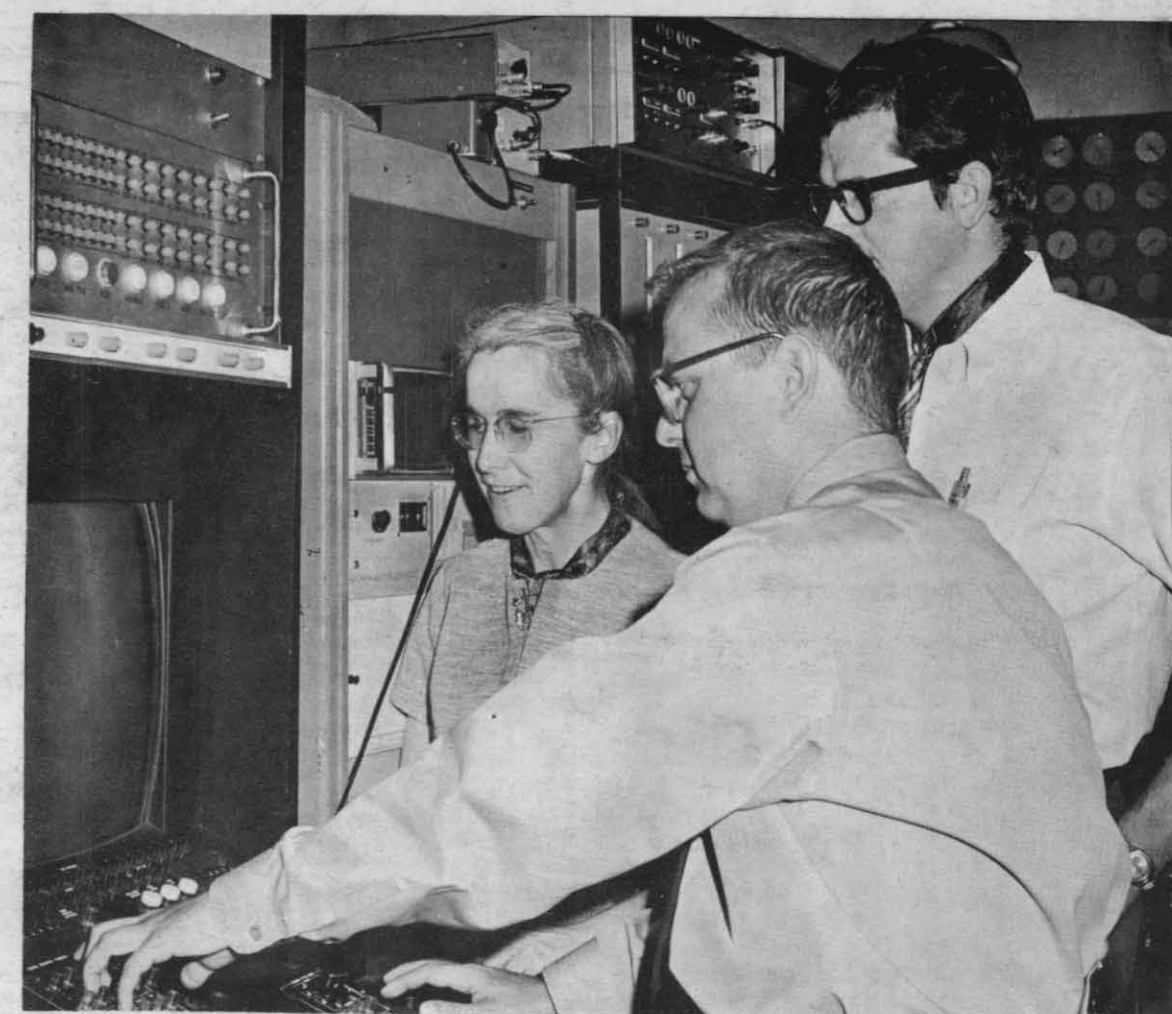
The selection standards cannot be modified after the promotion procedure is underway unless an inappropriate standard has been used through error or the Commission has issued a revised standard.

Distinguishing Applicants

Generally, individuals who meet the minimum qualification requirements for a position also possess the basic skills, knowledge and abilities to perform the duties of the position.

It is necessary to distinguish among the eligible applicants to assure that the best qualified applicants available are referred for final selection.

Therefore, groupings among the eligible candidates will, as minimum, be based upon: job relevant elements; supervisory appraisals of current performance related to the position to be filled; awards related to the position to be filled (the quality of the awards - that is - measures of the candidates initiative, resourcefulness or planning ability - as compared to sheer number (Continued on Page 7)



OPMS COORDINATORS—Bill Knight, principal Center employee involved in the Operator Performance Measurement System (OPMS), demonstrates its use to Amy Griffin, Head, Applied Cybernetics Branch, Systems Development Department, as operator FTMC Jon Gilbert, (Code 3042) reacts to situations being presented him on the multi-track radar console. —Photo by PH3 L. H. Detweiler

Man-Machine Relationship Studied

Computer-based instruction can be adapted to the types of performance training called for in modern weapon systems. That is the basic hypothesis put forth by personnel of the Applied Cybernetics Branch of the Systems Development Department.

In pursuit of this idea, the branch has been experimenting with a computer-based system that is designed to measure and study operator performance associated with newly-designed weapon systems, by simulating the characteristics of the new system through the use of a computer program.

Called the Operator Performance Measurement System (OPMS), the overall purpose of this concept is to gather data on the human factors aspect of the man-machine relationship of the new design.

The system provides a means of studying operator performance in a simulated weapons system environment, and helps to establish guide-lines for the establishment of computer-based instruction programs that will eventually be used to train future operators of a given weapons system.

The work is being performed under the direction of Amy Griffin, Head of the Applied Cybernetics Branch of the Systems Development Department. The computer programs which are used in the tests are being written by Mitgo Electronic Corporation under the supervision of Mathematician Bill Knight, who is the principal Center employee involved in the OPMS program.

The system is currently being used to assist in the development of the Improved Point Defense Tactical Acquisition System (IPD/TAS); the NATO Seaparrow (NSSMS); and the Advanced Surface (ASMS) Missile Systems, as it applies to the design requirements relative to human op-

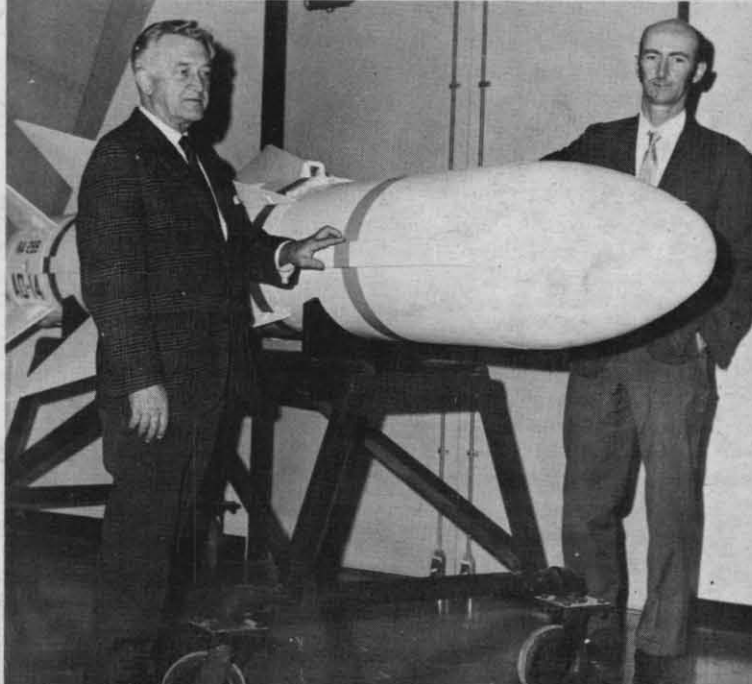
eration and computer program requirements. Basically a research approach, the work is directed toward the problems associated with the whole area of computer-based instruction; as well as the solution of design problems that are immediately indigenous to particular man-machine relationships that are built into the system.

The ideal result of this effort is the eventual development of an automated system that would be capable of providing the user with an automated instructional aid; and later, as a proficiency tester and/or change aid. Carefully controlled experi-

ments and check-out programs will be conducted at NWC's G-1 Range radar building using the multi-track radar console at that facility. The console is interfaced with UNIVAC 1218 and 1219 computers; a general-purpose display console connected to a VARIAN DATA 620/i computer; and a radar simulator with two CRT type displays and paper-tape input.

Cybernetics personnel set up the original tests on a tape programmed through the UNIVAC 1108 computer. This program, which provides simulated realistic problems to the equipment operator in the form of mean-

(Continued on Page 3)



CONDOR MISSILE—The first powered launch of the Navy's new Condor air-to-surface guided missile was successfully completed here on Tuesday, March 31. All test objectives were met in Tuesday's launch. The development of the Condor Weapon System has involved 10 Navy laboratories and field stations, the North American Rockwell Corporation, and many subsystem suppliers. With DDR&E approval to begin Contract Definition in 1964, Jack Crawford, (r) Head, Development Division 1, Aviation Ordnance Department, was designated by NAVAIR as the Field Activities Program Manager. H. G. (Hack) Wilson, Acting Technical Director, discusses the latest Condor developments with Crawford. —Photo by PH2 D. E. Hart

CROSSWORD PUZZLE

ACROSS

5-Scarf
6-Discard
1-Rear of ship
4-Exists
6-Nerve networks
11-Southeast
Asian capital
13-Puffs up
15-Pair (abbr.)
16-Indisposition to action
18-Note of scale
19-Pronoun
21-Frophet
22-Placed
24-Danish island
26-Inlets
28-Insect
29-Complaint
31-Mark left by wound
33-Senior (abbr.)
34-Withered
36-Cravats
38-Conjunction
40-Part of face
42-Fall into disuse
45-Resort
47-Let is stand
49-Toll
50-Strikes
52-Verve
54-Note of scale
55-Teutonic deity
56-Locks of hair
59-Chinese mile
61-Hot desert wind
63-Clothesmakers
65-Drinks heavily
66-Latin conjunction
67-Native metal

DOWN

1-Snake
2-Man of the soil
3-Note of scale
4-Electrified particles

ARA LAVA STOA
GET ATES EARL
RAT PERPETUAL
AMASS SENT
CE PEN LATE
ASK HIS PETAL
LI AIT WAS IL
STATE BAT ELA
OESE AAR AL
LAST DIALS
SPRIGHTLY TIL
ERIE ELSE ERA
REAR SETS DAM

11 12 13 14
15 16 17 18
19 20 21 22 23
24 25 26 27 28
29 30 31 32 33
34 35 36 37
38 39 40 41 42 43 44
45 46 47 48 49
50 51 52 53 54
55 56 57 58 59 60
61 62 63 64
65 66 67

Distr. by United Feature Syndicate, Inc. 22

CHAPLAIN'S MESSAGE

"Searching!!"

By Guest Columnist
LCDr. Nisson E. Shulman, CHC, USNR-R

There is in every man a compulsion to find meaning in his life, and a dread of finding his life meaningless.

Lack of meaning expresses itself both in boredom and in distress. In our time, more so than in any other of our memory, we hear the despairing cry that life has lost its meaning.

Sometimes we wear masks to cover up our frustration. We cover up our disappointments by a search for power, a search for money, a search for pleasure.

Sometimes we make excuses for our condition, blaming our environment, blaming the complicated nature of today's automated society, saying that these have de-humanized man.

It is a dangerous misconception to assume that man needs equilibrium, that he needs a tensionless state. What he actually needs is the striving and the struggling for some goal worthy of him.

It is a historical wonder that a small Jewish family was able to survive as slaves in totalitarian Egypt for hundreds of years; that they were able to continue as a separate group, until they finally emerged and found their freedom as a new nation.

The key to this puzzle of history... the secret of their remarkable survival... is that their life had deep meaning. They had a tradition that taught them to prepare for freedom, and that they would then begin to fulfill a great destiny.

(Editor's note: LCDr. Shulman is a reserve Chaplain in the Third Naval District. He is also Rabbi at the Congregation Sons of Israel located at 155 Elliott Avenue, Yonkers, N.Y.)

CENTER LIBRARY LISTS NEW BOOKS

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

FICTION

- Durrell—Nunquam.
Fast—The General Zapped an Angel.
Forbes—Tramp in Armor.
Harrington — The Last Doorbell.
Martin—Heartsblood.
Segal—Love Story.

NON-FICTION

- Angelou—I Know Why the Caged Bird Sings.
Bethel—Inside Baseball.
Clarke—Man Is the Prey.

- Barnett—Peace & War in the Modern Age.
Cohen—The Communism of Mao Tse-tung.
Graham—Since Silent Spring.
Green—The Smugglers.
Kerr—The Graham Kerr Cookbook.
Morath—In Russia.
Pourade—The Call to California.
Savage—Pastels for Beginners.
Salisbury—The 900 Days.
Scheffer—The Year of the Whale.
Perry—The Panay Incident.

PROMOTIONAL OPPORTUNITIES

Employees are encouraged to apply for the positions listed below. Current applications (SF-171) or Standard Form 58 bringing your work history up-to-date should be forwarded as described below.

The vacancies listed below are effective from 3 April to 10 April, 1970.

Management Technician, GS-344-6/7 - Forms Management Office, Office Services Division, Administration Department, Naval Weapons Center Corona Annex, Corona, California 91720.

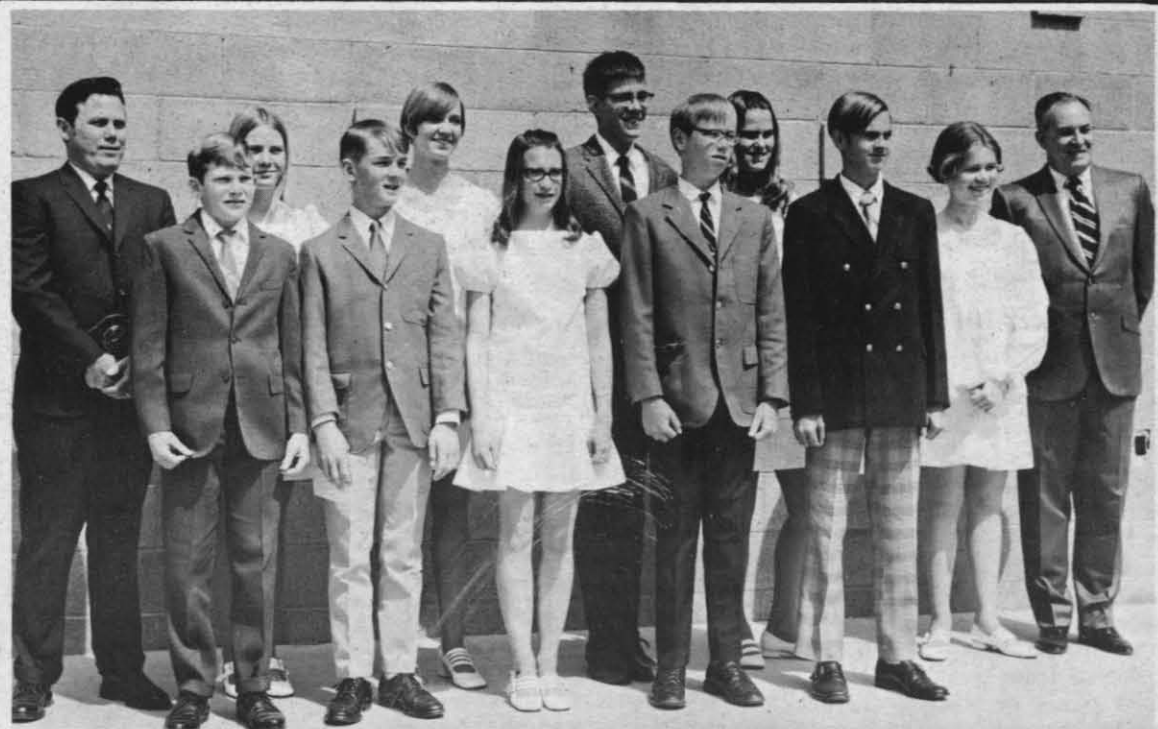
Interested applicants please contact Dorothy Smith, Ext. 4410, Corona. Clerk-Typist, GS-322-3/4—Electromechanical Division, Fuze Department, Naval Weapons Center, Corona Annex, Corona, California 91720.



CUBS ON TOUR—Cub Scouts of Dens 1, 2, 4 and 5 from Pack 291 toured the Naval Air Facility last week to become acquainted with the air arm of the U.S. Navy.

Community Bulletin Board for Announcements Erected at Circle

Those who noticed the "Happy Easter" greetings at the traffic circle last week, also noticed that a community bulletin board has been erected.



CHAPEL CONFIRMATION CLASS — Easter Sunday worship services at the All Faith Chapel at the Center included the Service of Confirmation for those who have completed the Chaplain's class of instruction in the Christian faith and who have been baptized.

are (l-r): James Netzer, Nancy Finnegan, Jonathan Love, Inger Karlstrom, Rebecca McBride, Robert Henry, Todd Sorbo, Jean Chatterton, James Backman, and Linda Karlstrom; far right, Chaplain Harold A. MacNeill, NWC Chaplain who conducted the confirmation. The confirmation meditation was given by Chaplain Gordon Read.

C. L. Community Council Members To Meet Residents

Residents of the Naval Weapons Center are invited to meet their Community Council representatives on Tuesday and Wednesday of next week between 7 p.m. and 9 p.m. at private homes located within the respective precincts.

According to a League of Women Voters spokesman, the Councilmen will take part in a get-acquainted coffee at each home according to the following schedule:

Tuesday, April 7, 7-9 p.m.—Councilman George A. Ness, Precincts 1 and 10, the home of Mr. and Mrs. Donald Cruise, 704-A Kearsarge; Ted Bergman, Precinct 2, at the home of Mr. and Mrs. C. Douglas Lind, 213-B Wasp Road; Kenneth Austerman, Precinct 3, at the China Lake Players Hut on MacIntire Street; Robert Young, Precinct 5, the home of Mr. and Mrs. Dan D'Anza, 315-B Tyler; Jack Dragovich, Precinct 6, at the home of Mr. and Mrs. Earl W. Anderson, 113-A Entwistle; James Mendonca, Precinct 8, the home of Mr. and Mrs. Gary Babcock, 49-A Stroop; and Phillip Gill, Precinct 9, at his own home, 233 Segundo in Desert Park.

Wednesday, April 8—Councilwoman Ruth Schuyler, Precinct 7, will be the host at her own home, 70-A Franklin, as will Councilwoman Wardna Abernathy, Precinct 4, at 304-A Langley.

Slides of Eclipse To Be Shown

Colored slides of the total eclipse of the sun on March 7 taken in Mexico by members of the China Lake Astronomical Society, will be shown Monday, April 6, beginning at 7:30 p.m. at the clubhouse, 401 McIntire Street.

Also to be shown and discussed at this meeting are photographs of Comet Bennett, now visible above the eastern horizon in the early morning sky.

Dr. St. Amand Guest Speaker at RESA Dinner

The Scientific Research Society of America (RESA) will hold its annual spring dinner meeting on Tuesday, 14 April, at the Commissioned Officers' Mess.

The speaker will be Dr. Pierre St. Amand, Head of the Earth and Planetary Services Division at NWC. Dr. St. Amand will speak on "Some Recent Applications of Weather Modification to Human Affairs."

The newly elected officers of the local chapter will be presented at the dinner, and high school students participating in the Work Experience Program are to be invited as guests.

The dinner will start at 7 p.m. and will be preceded by a no-host social hour commencing at 6 p.m.



LOCAL ROA NOW CHARTERED — Capt. M. R. Etheridge, NWC Commander, presents a National Charter from the Retired Officers Association, to S. H. Herzog, Capt. USNR (Ret.) for the Indian Wells Valley Retired Officers Assn. Chapter.

Second Installment Explains More of Merit Promotion Plan

(Continued from Page 1) should be considered; and training, self-development and outside activities which relate to the potential effective performance in the position to be filled.

Other factors such as written tests, quality and length of experience and supervisory appraisals of potential may be used, when appropriate, in ranking eligibles for a given position.

Ranking

Ranking of eligible candidates will be made into two categories - qualified and highly qualified. If there are more than five highly qualified applicants, a further grouping of best qualified will be made from the highly qualified and referred to the selecting official.

Each eligible candidate will be categorized into the qualified and highly qualified group using each of the major job related factors described above. Identical rankings among the highly qualified may be broken (if necessary) by further breakdowns of the job related factors, length of qualifying experience and length of service in that order.

The selecting official will normally select from the group referred to him.

After appropriate consideration of the referred candidates, the supervisor may make a selection or return the certificate for further recruitment. If the certificate is returned without a selection, the supervisor will note the basis for its return (i.e. position cancelled, area of consideration to be expanded).

If the supervisor/selecting official has a relative among the applicants that have been rated as qualified, he shall excuse himself from the selection process and his immediate supervisor or a selecting official designated by his immediate supervisor shall become the selecting official.

Record Maintained

For a period of two years after the selection, the Personnel Department will maintain the following information for each promotion action

Spring Fashions To Be Displayed At WACOM Show

WACOM's annual spring fashion show will feature today's wonder fabrics for travel wardrobes at the April 14 buffet luncheon at 12:30 p.m. in the Commissioned Officers' Mess.

Ida Davis and Doris Valitckha, co-chairmen of the "Flights into Fashion" showing, aim to guide today's woman in choosing appropriate and carefree travel wardrobes. Selections are from the spring collection at Mary Sue's Dress Shop and Cornelius' Shoe Store.

Delta Air Lines will enhance the travel mood with favors and a table decor of airline napkins, mini airplanes and cookbooks, travel posters, matches, and tips to travelers.

Topping this last program of the year will be the drawing of five door prizes. The first prize is a red, white and blue, two-piece, Butte knit ensemble of dress and jacket; a daron Tami blue and white slack set; one pair of shoes, a necklace, scarf, and a purse. The other four prizes will consist of garment and flight bags. Additional tickets on the drawing may be obtained preceding the luncheon.

Election of the 1970-71 WACOM board of directors will take place immediately following the luncheon and preceding the fashion show.

Contributors planning to attend the fashion show luncheon are: Mary Cornelius; Mary Sue Hough; Donna Rinehart; Danny Dandurand of the local airline traffic office (JAMTO); and Don Creighton, military and government representative of Delta Air Lines, Inc.

National Award Presented To Corona Firemen

For the sixth time since 1961 the Fire Fighting Branch at the Naval Weapons Center Corona Annex has earned an honorable mention in the National Fire Protection Association Contest. It covers the year 1969.

NWC competes in Group III for small Navy installations. The Grand Award in the Navy category was won by the Navy Consolidated Fire Department, Pearl Harbor.

The National Fire Protection Association is a world-wide organization whose sole objective is to advance, by science and education, the protection of lives and property from fire. The contest is sponsored to "provide recognition for positive efforts in the field of fire prevention."

In addition to their primary responsibility, the NWC firemen under Chief J. L. Rabbour, have mutual aid agreements with four neighbors: the cities of Norco and Corona, the State Forestry Station, and the California Rehabilitation Center.



HOW SWEET IT IS—Nancy Byrd, 4, appears enchanted with one of the first blooms of spring, reminding Center residents of the 24th Annual Wildflower Festival at the Community Center April 25 and 26.

Equipment Change

According to Bill Hattabaugh of the FM Committee of the Community Council, an equipment change has been made in order to improve the quality of the stereo signal received in the valley from Station KKOP-FM.

Groves School Parents Plan Rummage Sale

Parents of Groves Street School children will hold a rummage sale on Saturday, April 25, to raise funds for landscaping of the school grounds.

Ruth Rosas, publicity chairman for the group, invites the community to join them in this effort with their contributions of small household appliances, clothing, etc. Donations of items may be left at the school, or arrangements can be made to have articles picked up by phoning 446-6878.

The rummage sale will be held in the school auditorium from 9 a.m. until all items are sold.

The Rocketeer

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

Capt. M. R. Etheridge, USN NWC Commander

"J." Bibby Public Affairs Officer

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

William P. Valentein, Jr. Editor

Jack C. Lindsey Staff Writer

Lucille Edwards Editorial Assistant

John Scott Sports

PH1 Gary D. Bird, PH2 Delmar E. Hart, PH2 Michael F. Krause, PH3 Maurice Dias, PH3 L. H. Derweiler, PHAN Ronald H. 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 in compliance with NavExos P-35, revised July 1958. Office at Nimitz and Lauritsen.

Phones 71354, 71655, 72082



DIVINE SERVICES

Protestant (All-Faith Chapel)—Morning Worship—10:00 a.m. Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant. Thursday—Service at 5:00 p.m. (Organ Prelude at 4:45 p.m.)

Roman Catholic (All-Faith Chapel)—Holy Mass—7, 8:30 and 11:15 a.m. Sunday.

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

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

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

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

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



Brightwell Rolls 640; Kirkpatrick's Hit 1045

Thad Brightwell put together games of 212-213-215 for a 640 series to lead the scoring in the Premier League this past Monday night.

Ken Dalpiaz had a 210 and 205, ending in a 611 total, to take second. Jack Brown, bowling for Kirkpatrick's Carpets, had games of 215 and 200 enroute to a 614 series. Kirkpatrick's shot the season's high team game with a 1045 effort.

Jim Ball rolled a 609 series on the strength of a 215 and a 201. High game for the night was rolled by Jack Lindsey, who tallied 245. Dean Lippincott had games of 242 and 223 to make his night's work worthwhile.

Other good scores during the evening: Fred Dalpiaz, 228; Dan Branson, 221; By Nelson, 220; Jim Kincheloe, 218-201; Ray Freascher, 217; Bobby Lockwood, 217; R. C. Jones, 215; Gillespie, 215; Joe Kokosenski, 215; Dick Furstenberg, 211-206; and Maury Coleman, 211.

Ridgecrest Lanes had a 2939, including games of 1002 and 1003, and Mercury Movers shot a nice 1012 game.

Standings follow at the end of the page.

Friday Mixed 4-Some
Jack Herbstreit was the high male bowler with a 616 series, including games of 199-213-204. He was followed closely by Doug Driscoll, who rolled lines of 225-181-201 for a 607 series. Jim Ball made the column again, rolling 201-217-182 for an even 600 series.

Bob Vorwerk had a 233 single game to take the honors

in that category. He was followed by George Bowles, who shot a 223.

Maggie Branson led the ladies' scoring with a 584 series. Other 500 totals for the ladies: Doris Boyack, 543; Royce Dowd (222) 545; Patti Maxwell, 561; Carolyn Smith (201) 541; Neola Crimmins, (202) 537; Shirley Hartman, 525; Cynthia Schoenhals, 516; Jeanne Pfau, 512; and Vivian Dalpiaz, 508. Barbara Manning had a 202 game.

Military Ball & Chain
A. C. Winslow and Flo Albright were the two big shooters in the league on March 25. Winslow had a 223 game and a 552 series. Flo shot a 189 enroute to a 511 series.

The Rustlers had high team game, an 852 effort, while the Unaccountables rolled a 2161 series.

Supply Dept. Mixed
Hal Moore rolled a 215 and a 614 to take the male honors March 29. Bob Green also had a 215 game. Bonnie Harkey led the ladies in three-game scoring with a 493 series, while Marbara McGeath had a 206 single game.

Women's Wed. Nite
Maryls Bowles led the scoring with a 516 series, followed closely by Sue Lewis' 513 and Lela Herigstad's 512.

| | Won | Lost |
|---------------|-------|-------|
| Boyd's Auto | 330 | 230 |
| Ace TV | 324 | 236 |
| R. C. Jones | 314 | 246 |
| AV Trophy | 308.5 | 251.5 |
| C. L. Navy | 307 | 253 |
| Tom's Place | 273.5 | 288.5 |
| Mercury | 264 | 296 |
| Starlite | 272 | 298 |
| Kirkpatrick's | 239.5 | 320.5 |
| Team No. 10 | 187.5 | 372.5 |



JUNIOR GOLFERS—Winners of the Junior Golf Tournament sport their trophies following a presentation ceremony held in the Golf Shack March 25. Kneeling in front, left to right, are John Kleine, who took the putting trophy, and Billy Doremus, who won the Best Sportsmanship Award. In the back row, left to right, are: John Snopkowski who shot an 88 to take low gross honors, and who also won the driving contest; Jim Runchey, winner of the low net award with a 75; Mike Sinott, second in the driving contest; and Jim Annos, second in the Best Sportsmanship.

Little League Tryouts Slated For April 4, 11 and 18 on Diamond 4

Little League tryouts for boys between the ages of 10 and 12 who wish to play on a Major League team this year will be held on two consecutive Saturdays, April 4 and April 11, at Diamond No. 4 on the Center.

Tryouts have been divided into age groups, with 10-year olds boys meeting at 8 a.m. on both mornings; 11 year olds at 10 a.m., and 12 year olds at 1 p.m. Boys who played on

major league teams last year do not need to attend these sessions.

Due to a lack of advance registrations, a Little League spokesman has announced that sign-ups will be held on the two tryout dates for those boys wishing to play in Little League baseball this season.

Parents are reminded to bring proof of age and a registration fee of \$8. Boys previously registered, but whose age has not been verified, are also asked to bring their birth certificates to the tryouts.

Anyone desiring further information is asked to call Bill Lalor, NWC Ext. 2579.

Intramural Golf Team Sign-ups To Close on May 1

Spring is in the air and so is intramural golf. The 1970 intramural golf season is slated to begin play May 12, and the deadline for team entries is 4:30 p.m., May 1.

The rules call for four golfers on each team, with a list of two alternates to be included on the roster. USGA rules, with local modifications, will be in effect for the matches.

Entries are limited to male members of the China Lake Golf Club, and once the season begins, teams will play a full handicap, single round robin of nine-hole matches on Tuesday evenings.

SPECIAL SERVICES CALENDAR

- April 3—Youth Center Dance (Drifters and Everyday People)
- April 4—Tennis Clinic (Tennis Courts)
- April 4—Dewing Classic (Golf Course)
- April 25-26—Wildflower Show
- May 1—Intramural Softball and Golf Signup Deadline

John Snopkowski Shoots 88 for Low Gross Crown

John Snopkowski took almost every trophy in sight at the Junior Golf Tournament held last week at the China Lake Golf Club.

Snopkowski won the low gross championship; topped the field in the special driving and chipping contests; and tied for first in the putting contest.

Snopkowski's 88 was good for the low gross championship, barely edging Jim Carmody's 89 and Keith Adicoff's 90.

Jim Runchey took the low net title with a 75, while John Kleine Jr. tied Snopkowski in the putting contest. Runner-up in the driving contest was Mike Sinott. Billy Doremus and Jim Annos were awarded the sportsmanship trophies.

The 18-hour medal play tournament was the climax of the three-day event, which began with a 2-hour clinic on Tuesday, the contests Wednesday, and the tournament Thursday.

Twenty golfers participated in the tournament directed by golf pro Paul Someson.

All-Stars Meet L.A. Boys Club

The Youth Basketball League All Stars get a chance to show their stuff tomorrow, when they take on the All Stars from the East Side Boys Club of Los Angeles, in the Center gym, beginning at 6 p.m.

The China Lake All Star teams in the Pee Wee, Midget, and Junior divisions will play games against Boys Club teams of the same ages.

A standing room only crowd was on hand Saturday as the East held on to defeat the West, 60-54, in the Junior Division All Star Game.

The East led by as much as 20 points at one time, but the West sliced the East advantage and even took the lead, 50-48.

The taller East squad came back on the outside shooting of Mike Peacock, the ball handling of Billy Campbell, and the rebounding of John Crump to earn the six-point victory.

Tennis Clinic Will Begin at Center Courts

Tennis season unofficially begins tomorrow morning with the start of the China Lake Tennis Club's annual tennis clinic.

The clinic's program of six 1½ hour lessons will get under way at 8 a.m. at the Center tennis courts. Registration fee for the lessons is \$3, and the club will supply tennis balls and some rackets.

Classes will be taught at all levels from beginner to advanced. Minimum age for the lessons is eight years old. All persons participating must wear tennis shoes.

When a girl puts on perfume before a date, it's the most dangerous form of chemical warfare.



TECHNOLOGY BRIEFING — Dr. John S. Foster, Jr. (l), Director of Defense, Research and Engineering, visited the Naval Weapons Center on Monday, March 30, and was given a series of demonstrations and briefings of new technology. At the Radar Tower, atop the north end of Michelson Laboratory, Phil Arnold of the Weapons Development Dept. describes an advanced infrared sensor used on the night attack development program. Dr. Foster has been acquainted with the technological advancements of the Center for some time, having been a member of the NWC Advisory Board from 1958 to 1961.

Military Parade Is Feature of 55th Orange Show

The 55th National Orange Show in San Bernardino will present a colorful military parade on Sunday, April 5, as part of its American Legion-Armed Forces Day observation. The parade will pay tribute to members of the nation's armed forces and to veterans of all wars.

Seven divisions of parading units will feature hundreds of marching men from Army, Navy, Marine Corps and Air Force units and bands, in addition to American Legion and veteran-sponsored drum and bugle corps, drill teams, musical groups, color guards, majorettes and baton twirling units.

Thousands of persons will view the parade which leaves Sixth and E Streets at 11:30 a.m. and proceeds south on E to the National Orange Show grounds, where it will swing down the colorfully bedecked Sycamore Lane by the reviewing stand filled with national and state American Legion officers, military leaders, government officials and dignitaries from Washington, D.C.

Congressman Jerry L. Pettis and the commanding officers of six nearby military bases will be in the reviewing stand.

Military Day
Sunday, April 12, will be Military Day at the National Orange Show. Bob Hope will be the featured entertainer, and will appear during the evening program at 7:30 on the NOS stage.

Military personnel in uniform will be admitted free to the Orange Show grounds, and everyone will be admitted without charge to the auditorium where the Bob Hope show will be presented. Seating for the show will be available at 50 cents a seat, on a first come, first served basis.

Regular grounds admission will be charged for those not in uniform.



IT'S NOW CAPTAIN PARODE—During ceremonies held in the office of Capt. M. R. Etheridge, NWC Commander, last week, Cdr. H. D. Parode was promoted to the rank of Captain. Assisting in the ceremonies were Mrs. Parode, son Steven, 6, and Andrea, 5. Capt. Parode is Plans and Operations Officer and Assistant Technical Officer for Air Weapons Systems. Capt. Parode was commissioned in June 1950. He reported aboard the Center in October 1968.

OPMS Studied at NWC . . .

(Continued from Page 1)
ingful display information, is fed into the radar console.

The tests are currently being run against Navy fire-control personnel, under the supervision of LCdr. John Millikan of NAF, who has long experience in the fleet with the operation of similar equipment.

The operator's reactions with respect to the manner in which he responds to simulated conditions, are recorded as a function of the 1108 program and then carefully studied. Subsequent recommendations are thus based on empirical as well as post-processed information.

Future tests will be conducted using civilian as well as military specialists. Work with OPMS has

shown conclusively that meaningful data on the human factors aspect of the man-machine relationship inherent in the design of weapons systems has resulted in better effectiveness of the system.

Research will continue to be performed that is consistent with the overall aims and objectives of this goal.

Newcomers Club To Meet Tuesday

The regular monthly meeting of the Indian Wells Valley Newcomers Club will be held at 9:30 a.m., Tuesday, April 7, at the Ridgecrest City Park, advises Nan Sally, publicity chairman.

Help Line Volunteer Course To Be Offered Starting April 7

The next Help Line volunteer training course will begin on April 7 and will meet for eight evenings, each Tuesday and Thursday, from 7:45 p.m. until 9:45 p.m.

A dramatic film entitled "A Cry For Help" will be presented at the first class. The film depicts the cases of a number of suicidal individuals and tells how their problems were either helped or made worse, depending on how each situation was handled by the police, doctors, friends or relatives involved.

Dr. Douglas C. Lind, Head of Code 45's Explosives Research Branch, who will conduct the course, will provide an in-depth discussion of suicide prevention following the film. He will present information on what kinds of people are most apt to be suicidal and on what alternative solutions can be offered to those who are so desperate that

they are considering taking their own life.

Succeeding classes will deal with such problems as alcoholism, drug abuse, unwed pregnancy and mental illness, all very common in this area, as they are in the nation. Techniques of listening and of communicating over the phone will be stressed throughout all of the classes.

Those who complete the course will join the 50 men and women who presently take turns manning the Help Line telephone, 446-5531, every day between 6 p.m. and Midnight. The course is free, and those who begin it are not obligated to serve as volunteer workers if they decide that this type of activity does not suit them.

Persons interested in attending the course are asked to call Dr. Lind at 446-4387, or the Help Line Secretary, Mrs. John Strang, at 446-22-61 for additional information.

Class in Ballroom Dancing Is Offered by Special Services

A class in basic ballroom dance techniques beginning April 6 will be conducted by Ken and Judy Austerman in the Panamint Room of the Community Center.

The class, which will convene at 8 p.m., is sponsored by Special Services and is open to all Valley residents over the age of 16.

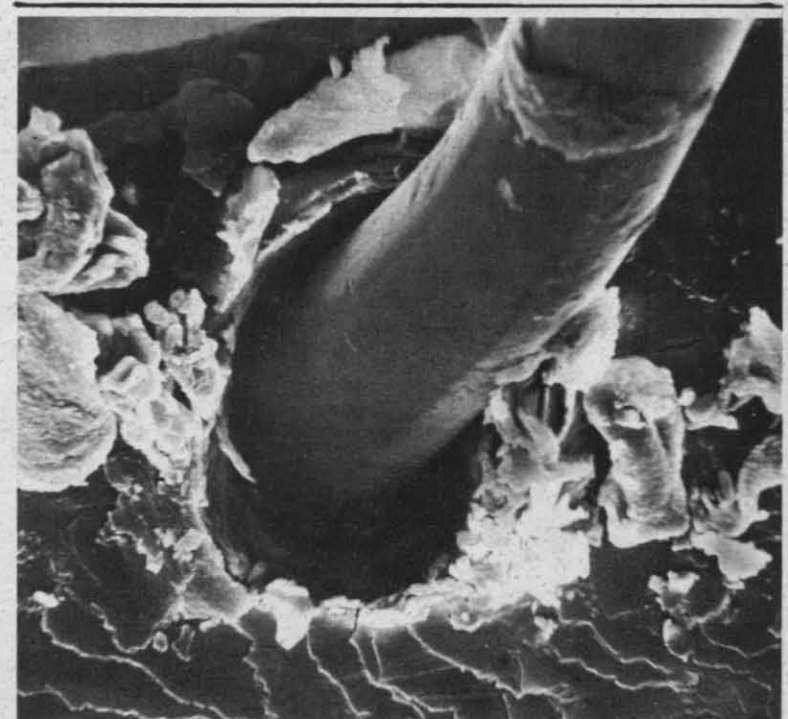
The class is being offered primarily to help those people who lack self-confidence and poise on the dance floor. Much emphasis will be placed on rhythm, leading, following, and styling in using combinations of four or five basic steps in the Fox Trot, Waltz, cha-cha, Rhumba, and, if time permits, the Tango.

"We will be stressing that a strict adherence to the exact footwork of the steps is not necessary so long as the

gentleman's lead (and rhythm) is strong enough to allow him to use some imagination. After all, dancing is a form of recreation for most people and as such should not be work," explained the instructors.

April 3 is the deadline for registration for this course, which will consist of 8 two-hour sessions that will end on May 25. For further information and to sign up, contact Ann Seitz at the Community Center, NWC Ext. 20-10.

Blue Cross Ins. Agent At Community Center Wednesday, April 8

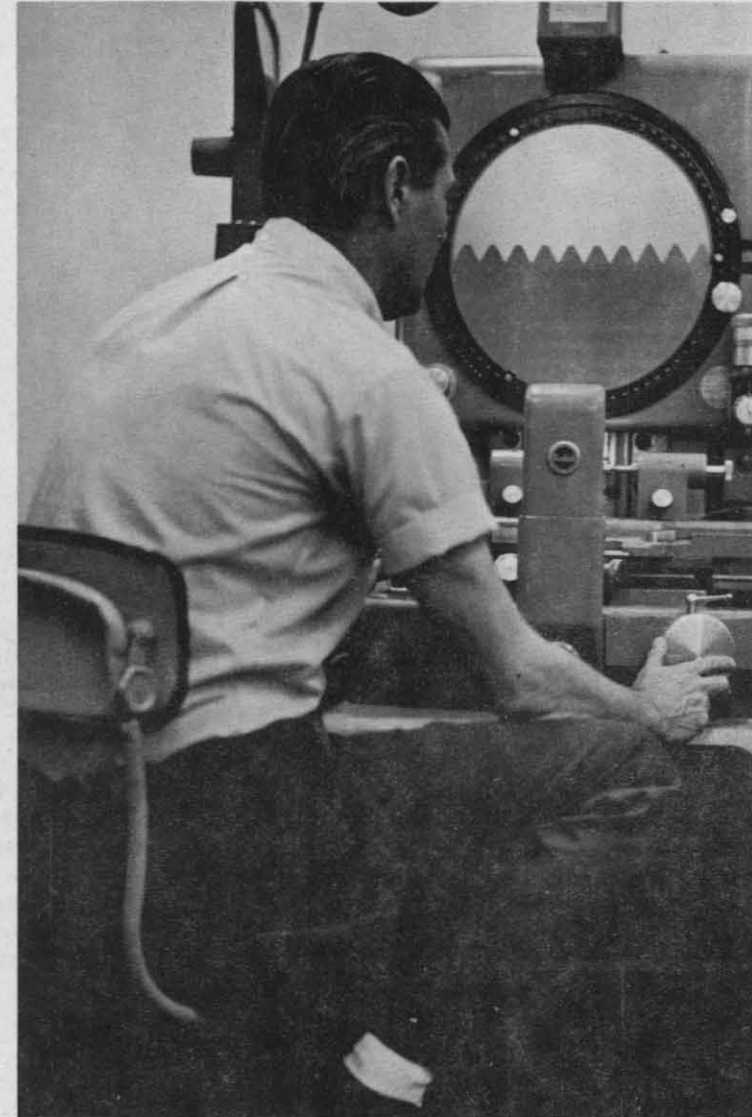
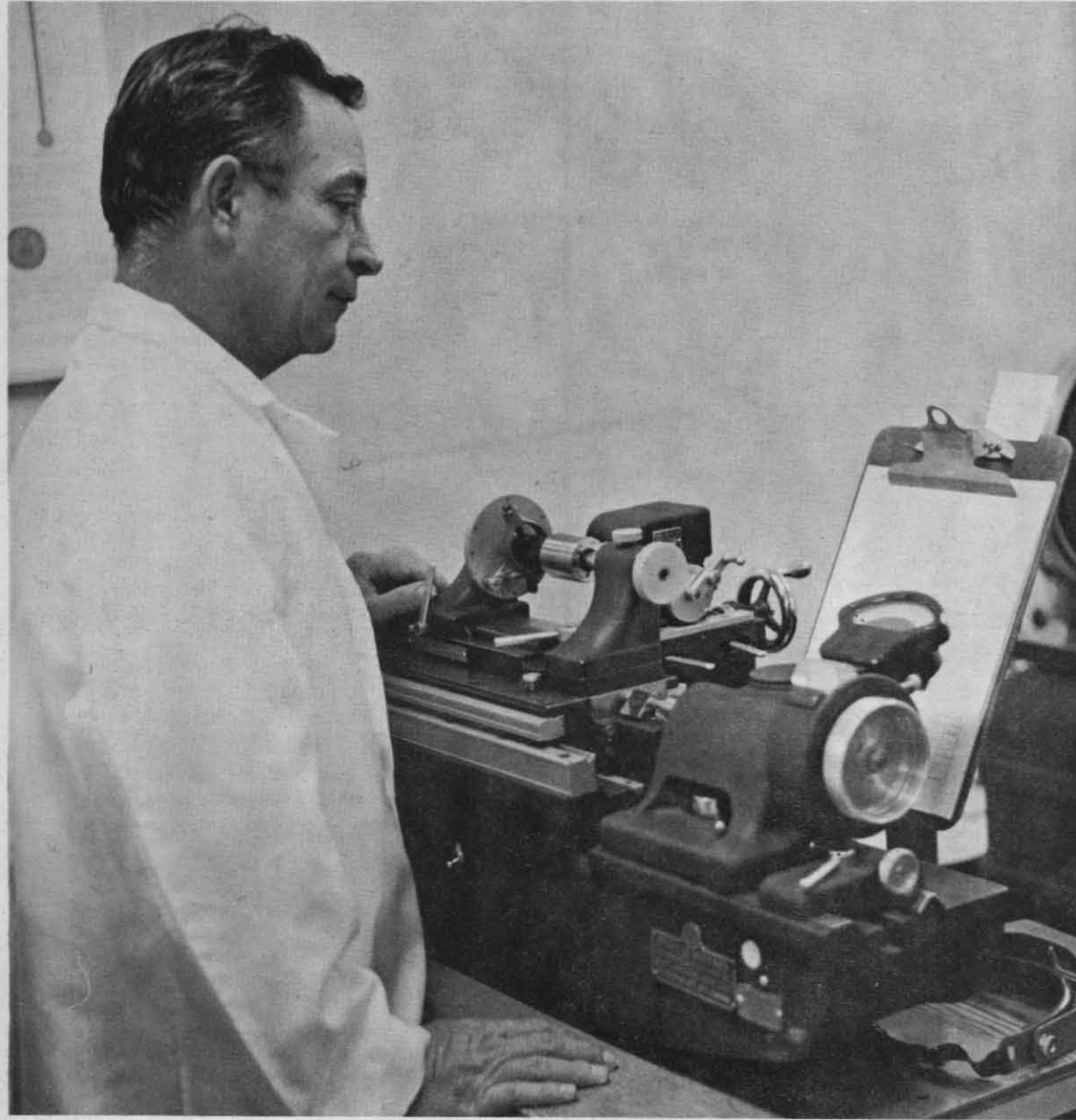


CLOSE TOLERANCE WORK—The above picture demonstrates in a very dramatic manner the type of close tolerance work often done at the Naval Weapons Center. Larry Thurm, an Instrument Maker General in the Gyro Shop, plucked a hair from his forearm, which was .002 in diameter, and drilled a .001 size hole through it by running his drilling machine at a high rate of speed and using a feed adjustment of .0005. Then Thurm threaded the hair with a piece of .002 steel wire. The result, shown above, was photographed in the Scanning Electron Microscope at 2,000 magnification.



CITY TOURNEY WINNERS — First-place finishers in the recently conducted Men's City Bowling Tournament line up at the China Lake Bowl for a victory photo. They are, front row: "The Loners," who won the team event, including, l to r, Jim Wolfe, Jack Brown, Allen Smith, Chuck Cutsinger and Ralph Brewer. Back row, l to r, Harry Hudson, All Events champ; Aaron Kane and Doug Driscoll, who took the Doubles crown, and Fred Dalpiaz, winner of the men's Singles event. —Photo by PH2 D. E. Hart

Mechanical Standards Gage Lab Performs Vital Function At NWC



ABOVE—Bill Griffith operates a Kodak Comparator, used for measuring various configurations not obtainable by normal inspection procedures.

TOP LEFT—Bobby Kochman operates a Lead Tester, which is used for testing thread gages in the realm of 100 millionths inches tolerance.

BELOW LEFT—Bill Griffith examines the finish on a metal ball using a Profilometer, which measures surface roughness or topography from 0 to 3000 RMS.

PHOTOGRAPHY BY
PH2 D. E. HART



HOWARD GRANT calibrates a torque-wrench with a torque tester which measures from 0 to 1980-inch pounds.



STAN BJORK calibrates gage blocks with a Micro AC machine, which measures lengths within 1 millionth of an inch. Bill Kummings, Head of the Quality Assurance Branch, Engineering Department, watches the operation.

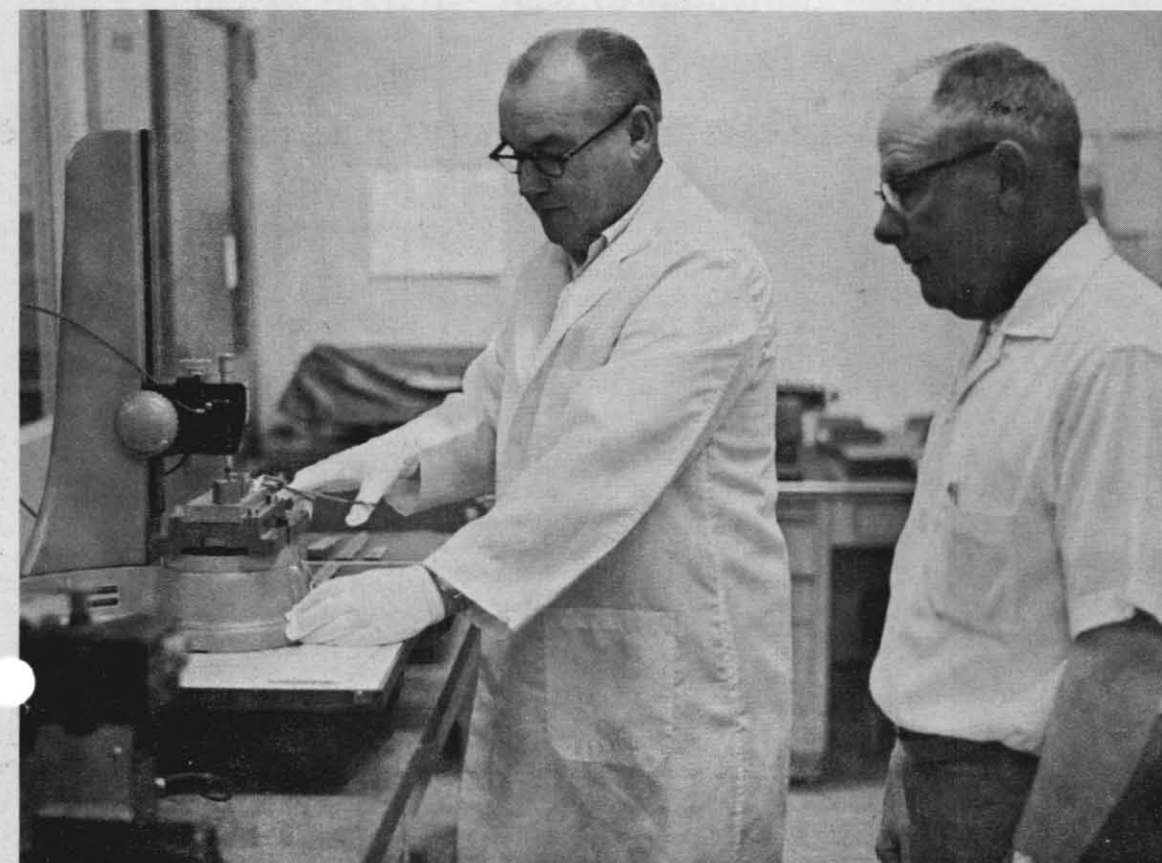


ENOCH NICHOLSON measures a hole pattern on a metal part by using a Cordax 3-dimensional measuring machine. The machine has an accuracy of .0002 inches tolerance.

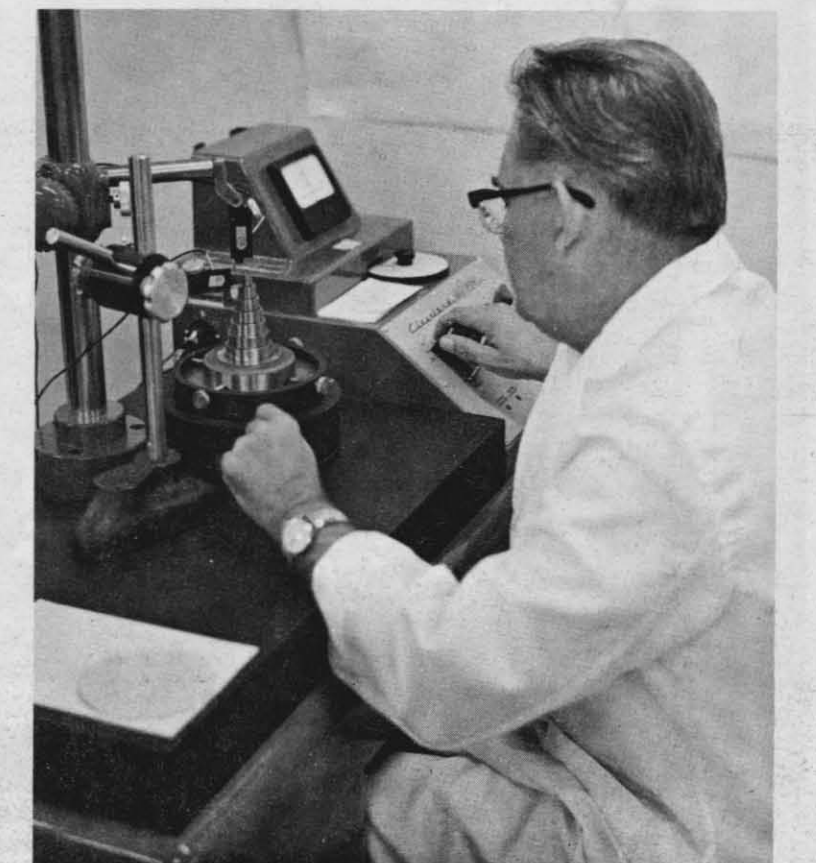
Working to specifications established by the National Bureau of Standards, personnel of the Mechanical Standards Gage Lab frequently perform measurements within 10 millionths of an inch tolerance.

The Lab, a part of the Quality Assurance Branch, NWC Engineering Department, has been located in Michelson Laboratory since 1948. Since that time they have constantly maintained and updated their equipment to keep abreast of the needs of the Naval Weapons Center.

Some of the devices found in the Lab include: Lead Testers; a Kodak Comparator; an Indiron machine; a Profilometer; the Leitz Optical Dividing Head; torque testers; and a Micro AC machine. The services of these machines, and others, are available to NWC personnel and may be utilized by calling either Stanley Saurey, Supervisor of the Gage Lab, or Stanley Bjork, Tool and Gage Inspector, at NWC Ext. 3396.



HOWARD GRANT checks a hole on an angular dimension using the Leitz Optical Dividing Head. Stan Saurey, a supervisor in the Calibration Lab, surveys the operation.



JOHN RAMBO sets the dial on an Indiron machine. This machine checks for roundness within 5 millionths tolerance.