

Youth Activities Hold Holiday Fun Program

The China Lake Youth Activities Center will sponsor a Fourth of July program at Kelly Field, beginning at 3 p.m. and lasting until 1 a.m., July 5.

Contests for Youth Center members, ages 5 through 18, will highlight the afternoon. This will be followed by a baseball game, featuring the Little League Managers, Coaches and Officials, vs. Little League 12-year-olds. The game will be held at 7 p.m., at Little League Diamond Number Four.

A fireworks display will begin at 9:15 and may be viewed from Kelly Field.

The Bloomfield Telephone, popular folk-rock group, will provide entertainment for a dance which will begin at Kelly Field at 10 p.m.

Following is a complete schedule of events for the Holiday Festival:

3 p.m. — Gates open. 3:30 p.m. — Egg-throwing Contest; 4 p.m. — Water Balloon Contest; 4:30 p.m. — Pie-eating Contest.

At 5 p.m. there will be a water melon eating contest, followed by a tug-o-war at 5:30. Then at 6 a potato-in-spoon relay race will be held.

The baseball game will take place between 7 and 9 p.m. with the fireworks display at 9:15. At 10 p.m., the Sierra Desert Gun Club will hold a drawing with proceeds going to the building fund. First prize is a rifle; second and third prizes are gift certificates.

Then at 10 the dance will begin and finish at 1 a.m.

Marty Denkin, Youth Activities Director, has stated that hot dogs, soft drinks, ice cream and pop corn will be available.

As a special treat, the staff of the Youth Center has consented to be targets at a water-filled sponge booth.

All monies received will be used by the Youth Center and the Pony/Colt League for furthering Youth Activities in the community.



ICE CREAM SOCIAL —Members of the Protestant Women of the All Faith Chapel prepare posters announcing the annual Ice Cream Social which will be held Tuesday, July 15, from 6 to 9 p.m., at the Chapel Lawn. A Navy Band from San Diego will provide music and entertainment for the occasion. From left to right, Denise Rivette,

Lorraine McClung, Merle Rivette, Virginia Murphy, chairman of the event, and Margaret Mack are shown making final preparations. Tickets, priced 50 cents for adults and 25 cents for children, and 35 cents for servicemen, can be purchased at the Chapel office or from P.W.O.C. memers. All Centerites are urged to attend this gala event.



Marty Denkin, Youth Activities Director, will coordinate a fireworks display which will be presented under the auspices of the China Lake Community Council, and funded by the Recreation Council, at 9:15 p.m., July 4. The pyrotechnic display, which will be located on Mirror Lake, will last for approximately 15 minutes.

Ken R. Foote, an employee of the Pyrotechnics Branch, Explosives and Pyrotechnics Division, will head a crew of men who will do the actual firing.

The Security and the Fire Departments will also be on hand to ensure that all safety factors are observed.

Bishop Ready For Fair

(Continued from Page 1)

es going to the top cowboys in each event.

On the concluding day of the fair, July 13, a destruction derby and a powder-puff derby will be held in Bishop.

All-Star Game

On July 18, also in Bishop, the Ridgecrest All-Stars will play the China Lake All-Stars in the Little League Arena Championship Tournament. The local squads will meet at 5:30 p.m. and Bishop will play Lone Pine in a game scheduled for 8 p.m.

The following day, the losers of the first two games will play a consolation game at 5:30 p.m. and the two winners will play at 8 p.m. for the right to represent the area in the district playoffs.

The Navy Exchange has released a schedule of proposed hours of operation during the following week. The Retail Store will be open from 1000 to 1800 on Wednesday, July 2. The Service Station, Snack Bar at NAF, the Barber Shop at NAF and the Retail Store will all be closed Friday and Saturday, July 4 and 5. The Snack Bar at the Bowling Alley and the Enlisted Men's Club will be open regular hours during the holiday.

The Blue Cross/Blue Shield Insurance representative, Norman R. Smith, will be at the Community Center next Wednesday, July 9, from 9 a.m. to 4 p.m., according to T.J. Haycock, Head, Employee Management Relations.

Public Warned To Stay Out Of Kern River

Attempts to convince the public the Kern River is one of the deadliest swimming areas in the West, is the aim of concerned public officials, forresters, landowners and law enforcement men.

The great use of the river's recreational facilities for fishing and camping poses part of the problem. As a result of its attractions, many families use the beaches and rocky sides.

Up to that point, fine. It's when they succumb to the temptation to swim that the potential danger begins.

The Kern is one of the swiftest streams in the nation (drops 91 feet per mile from Lake Isabella to the mouth of the canyon). This treacherous demon tips people out of inner tubes and dumps them into the current.

Its whirlpools suck people into the water and batter their bodies against the rocks below. Unsuspecting swimmers are caught by tree roots.

It is filled with rocks that often lie just under the surface, and with tree roots that all too often have trapped swimmers whose bodies were recovered only after the river flow was entirely stopped.

Ninety-five per cent of the drowning victims were self-proffered experts in the water.

The Kern has claimed 42 drowning victims since January of 1962, several of them this season. The course of the river drops an average of 91 feet elevation every mile, in some reaches as much as 120 feet, making it one of the fastest flowing streams in the nation.

SHOWBOAT

NEW RATING PROCEDURES

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

The rating designations are:

MPAA*

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

Parents**

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

FRIDAY JULY 4

"SUBMARINE X-1" (89 Min.)
James Caan, Rupert Davies, David Sumner

7:30 P.M.
(War/Drama) Now it's declassified, the story of the mini-sub and "Operation Jonah," the plan to sink the Lindendorf, a German battleship. (G) ** (A,Y,C)
Shorts: "In the Pink of the Night" (Pink Panther, 7 Min.)
"Sky Capers" (14 Min.)

SATURDAY JULY 5

—MATINEE—
"NAMU—KILLER WHALE" (89 Min.)
Robert Lansing

1:00 P.M.
Shorts: "Claws in the Lease" (7 Min.)
"Trader Tom" (No. 6, 13 Min.)

—EVENING—

"POINT BLANK" (92 Min.)
Lee Marvin, Angie Dickinson

7:30 P.M.
(Crime/Drama) Doublescrossed when he helps a friend with a holdup, Lee sets out for revenge on the pal who has joined the tough syndicate after stealing Lee's wife. Loaded with action, unique twists and some torrid scenes. ** (Adult)
Shorts: "Cops and Robbers" (7 Min.)
"Race with the Wind" (10 Min.)

SUNDAY-MONDAY JULY 6-7

"ANGEL IN MY POCKET" (105 Min.)
Andy Griffith, Jerry Van Dyke

7:30 P.M.
(Comedy) Ex-Marine becomes a minister and his first assignment is in a small town beset with two rich feuding families. Andy does his best and ends up in the middle of a free-for-all every time! It's total FUN! (G) ** (A,Y,C)
Shorts: "Shooting of Dan McGrew" (7 Min.)

TUESDAY-WEDNESDAY JULY 8-9

"MAYERLING" (129 Min.)
Omar Sharif, James Mason, Catherine Deneuve

7:30 P.M.
(Historical Drama) Super-production of tremendous scope tells of Emperor Franz Josef's struggle to retain hold in a rebellious era. And of Crown Prince Rudolf's scandalous romance with a young baroness. From street riots to the Prince's wild parties, this is a classic film of our time. (M) ** (A,M,Y)

THURSDAY-FRIDAY JULY 10-11

"THE NIGHT OF THE FOLLOWING DAY" (93 Min.)
Marlon Brando, Richard Boone, Rita Moreno

7:30 P.M.
(Suspense Drama) Taut, action-packed story in which Pamela Franklin is kidnapped by a professional gang. An inevitable explosion of violence climaxes the exceptional story portrayed by the superb stars. (R) ** (Adult)
Shorts: "Rabbit Stew and Rabbits Too" (7 Min.)
"Sleeping Bag" (9 Min.)

The difference between gossip and truth is whether you hear it or tell it.

From _____

TO _____
_____ STAMP



ROBERT B. HALL



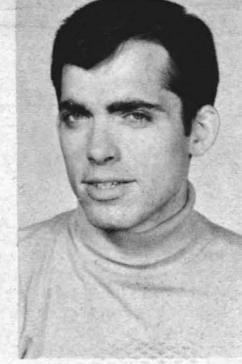
MILTON L. BROWN



CLIFFORD G. Y. LAU



RICHARD J. GLEESON



DOUGLAS KINNEY



Vol. XXIII, No. 26 Naval Weapons Center, China Lake, California Fri, July 4, 1969

Bishop Ready For Tri-County Fair, 4th Event

The Naval Weapons Center will participate in a gala 4th of July celebration to be held in Bishop this weekend. Four A-4 Skyhawk aircraft under the command of Cdr. V. G. Donnelly will perform aerial maneuvers above the Bishop Airport, beginning at 7 p.m. and lasting approximately 20 minutes.

In addition, the Presentations Division of TID will be on hand with static displays of A S R O C, SHRIKE, SUBROC, SIDEWINDER, and SNAKEYE that will be set up for the viewing public.

The Independence Day festival will begin at 5:30 p.m. with a competition for radio-controlled model airplanes. Then at 7 p.m., the NWC aircraft will perform.

At 8:45 p.m., a fireworks display will be presented by the Bishop Volunteer Fire Department. The pyrotechnic show will last for approximately one hour and all proceeds from admission will be used to purchase new equipment and supplies.

Tri-County Fair
Bishop will also be the site of the Tri-County Fair July 10, 11, 12 and 13. The center will furnish a General Purpose Station Exhibit, and a slide projector booth featuring Center mission information for the four-day event.

Each day of the Fair, a Kids' Fishing Derby will be held without charge for youngsters in attendance. The small fry will fish in a pond stocked with trout and at the close of the gala celebration, prizes totalling \$300 in fishing equipment will be awarded in 27 different categories.

Horse Show
The 17th annual Tri-County Horse Show will get underway at 11 a.m., July 10, signifying the opening of the four day celebration. At 1 p.m. that same day, there will be a Kids' Day Parade.

On the 12th of July, the Tri-County Fair Rodeo will be the main attraction, with prizes.

(Continued on Page 8)

WEPCOSE Taps Received By Five

Five Naval Weapons Center employees, Milton L. Brown, Code 4535, Richard J. Gleeson, Code 3033, Robert B. Hall, Code 4583, Douglas Kinney, Code 122, and Clifford G. Y. Lau, Code 4246, will pursue graduate studies this coming year under the Weapons Control System Engineering (WEPCOSE) training program.

WEPCOSE Awards provide financial support for advanced study and specialized training in weapons control systems engineering. Options available include training in aeronautics, astronautics, electronics, underwater, marine/ships, and operations research.

Milton L. Brown, a Mathematician in the Analysis Branch of the Quality Assurance Division, Propulsion Development Department, will pursue studies in Mathematical Statistics at the University of California at Davis.

Brown came to the Naval Weapons Center as a Junior Professional in June 1967 after receiving a Bachelor of Science degree in Mathematics from the University of Washington. Brown resides at 800-D South Richmond Road, China Lake.

Richard J. Gleeson will attend the University of California at San Diego to further his studies in Mathematical Analysis.

Gleeson started his career at the Naval Weapons Center as a Junior Professional in February, 1967, after graduating from the University of Nebraska with a Bachelor of Science Degree in Mathematics and Physics.

Gleeson is employed as a Physicist in the Data Reduction Branch, Assessment Division, Systems Development Department and resides at 110 J Nimitz, China Lake.

Robert B. Hall will pursue graduate studies that include Fluid Mechanics and Heat Transfer at the University of Arizona at Tucson.

Hall is a graduate of Union College at Schenectady, New York where he received a Bachelor of Mechanical Engineering in July 1959.

Hall came to China Lake in February 1961 after a year of employment in the NOTS Underwater Ordnance Department at Pasadena. He received a Masters degree in Engineering from the University of California, Los Angeles through its China Lake program in January 1968. Hall is a member of the Air-Breathing Propulsion Branch, Liquid Propulsion Division, Propulsion Development Department.

He and his wife Carol, a daughter, Jennifer, and two sons, Robert Jr. and Bradford, reside at 405 A Thompson St., China Lake.

Douglas G. Kinney will attend the Ohio State University at Columbus to pursue studies in Operations Research.

Kinney, an Aerospace Engineer in the Weapons Planning Group, started his career at the Naval Weapons Center as a Junior Professional in 1964 after obtaining a Bachelor of Science degree in Aeronautical Engineering from Purdue University.

Kinney, his wife Diane and two sons, Scott and Michael, reside at 452A Essex Circle, China Lake.

Clifford G. Y. Lau will return to his alma mater, the University of California at Berkeley, for advanced training in Electronic Engineering.

He received his Bachelors degree in Electrical Engineering in June 1966 and the Masters Degree in Electrical Engineering the following year. Lau commenced his government career at the Pearl Harbor Naval Shipyards, Hawaii in 1961, working as a Student Trainee.

Lau has been at the Naval Weapons Center Corona Laboratories since September 1967 and is employed in the CCM Technology Branch of the Countermeasures Division, Missile Systems Department.

Lau and his wife Gloria reside at 5049 Olivewood No. G, Riverside, California.

IN THIS ISSUE	
CNO Message	Page 2
Merit Program	Page 3
Printed Circuits	Page 4
Sports	Page 6
Showboat	Page 8



50 MILE SWIM COMPLETED — Richard Chatterton, left, is shown receiving a card and a patch signifying that he has completed the Red Cross 50-Mile Swim program, from Marlene Crow, Red Cross Water Safety Chairman. The swim is usually done 1/4 or 1/2 mile at a time, over an extended period, and is designed to keep a person physically fit by a regulated program of swimming. Persons interested in signing up for the program may call Marilyn Gossett, ext. 375-2196, for further information.

CHAPLAIN'S MESSAGE

Of Dissent And Disagreement



CHAPLAIN JAMES HOGAN

Unless a man of our time is deaf, dumb and blind, he cannot help but be aware that the world is in a state of vast unrest and upheaval.

Dissent and disagreement, sometimes only highly vocal, sometimes even violent, seem to be the hallmarks of the 1960's.

In the face of such a constant trend to "rock the boat" and destroy the status quo, many are understandably asking the question: "When will we get back to normal, when will things settle down?"

Such an answer doesn't mean, please God, that we can never again find peace and tranquility in our land and in the world.

And despite the exaggeration and distortions that are a part of any revolutionary era, even despite the injustices and evils of such a time which we all rightly abhor, our best thinkers find more to be optimistic about than to be afraid of.

Our time is a time of challenge and change, a time of growth. Even the questioning of values can lead, and with God's help will lead, to deeper and more lasting values than before.

Significant changes could be a sign of moral degeneracy; they can also be the birth pangs of a world struggling to bring forth a newer and better society than we've ever known.

Whatever anyone of us thinks is the truer evaluation of the time in which we live, we can all be agreed on one thing: no man can afford to be indifferent to what is happening.

What does it all mean, what are my values, what can I do to bring about a better world? These are questions that must be asked and answers must be found.

If I wish, I can pull the curtains and keep the world out; I can focus my total attention on my own personal self-interest and ignore my neighbors and the rest of mankind.

The only trouble with that solution is that sooner or later I'll have to peek out to see what's going on-and may discover that everyone else has moved away.

CENTER LIBRARY LISTS NEW BOOKS

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

- Fiction
Blish—A Case of Conscience.
Clifford—Another Way of Dying.
Lessing—Four-gated City.
McGuane—The Sporting Club.
Marin—Rise with the Wind.
O'Connor—A Set of Variations.
Stevenson—Katherine Wentworth.

- Non-Fiction
Alexander—History of Psychiatry.
Cookridge—Set Europe Ablaze
Grossman—Grossman's Guide to Wines, Spirits, and Beers.
Herbert—Kilauea: Case History of a Volcano.
Hess—The Ungentlemanly Art.
Johnson—Eat, Drink, Be Merry, and Live Longer.
Josephy—The Indian Heritage of America.

The Rocketeer

Official Weekly Publication
U. S. Naval Weapons Center
China Lake, California
Capt. M. R. Etheridge, USN
NWC Commander
"J. J. Bibby
Public Affairs Officer
Joan Raber
Associate Public Affairs Officer (Acting)
Director of News Bureau
William P. Valente, Jr.
Editor
Jack C. Lindsey
Staff Writer
Lucille Edwards
Editorial Assistant
PH1 Gary D. Bird, PH2 Delmar E. Hart,
PH2 Michael F. Krause, AN Maurice Dias,
Staff Photographers

DIVINE SERVICES
Protestant (All-Faith Chapel)—
Morning Worship—8:15 and 11 a.m.
Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Center Restaurant.
Roman Catholic (All-Faith Chapel)—
Holy Mass—7, 9:30 a.m., and 12:30 p.m. Sunday.
Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m.
Confessions—7 to 8 p.m. Saturday.
NWC Jewish Services (East Wing All-Faith Chapel)—8 p.m. every first and third Friday.
Sabbath School—10 a.m. to noon, every first and third Saturday.
Unitarian Fellowship—(Chapel Annex 95, 95 King Ave.)—Sundays, 7:30 p.m.

DEADLINES:
News Stories — Tuesday, 4:30 p.m.
Photographs — Tuesday, 11:30 a.m.
The Rocketeer receives Armed Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds in compliance with NavExOS P-35, revised July 1958. Office at Nimitz and Lauritsen.
Phones 71354, 71655, 72082

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 the 4 July to 11 July 1969.
Helper General - WB-05 Code 259 - Assists journeyman, keeping him supplied with tools and work material, engaging in joint operations with the journeyman and performing simpler elements of the trade.
Management Analyst, GS-9 Code 251 - Plan, review and coordinate, as assigned, current and proposed operational programs. Conduct for management special and scheduled studies of department methods, procedures and services; devise solutions to problems and recommend new or improved methods and procedures. Confer with department supervisory and operational personnel and with representatives of other departments regarding support problems of research and development programs.
File applications for the above with Carole Cadle, Bldg. 34, Rm. 26, X-71648.
Computer Aid, GS-335-4, PD No. 6917018-1, Code 1781-Position located in the Operations Branch, Management Data Processing Staff, Central Staff. Incumbent receives source documents and punched cards for Management Data Processing Operations in accordance with established procedures for work flow to the Operations Staff. Maintains close review over established schedules to insure schedules are being met. Prepares control documents for record and for transmittal of input data to keypunch control, and/or operations for processing. Edits and logs transmittals on incoming data. Develops forms for balancing control totals and devises a system for a series of control totals as a check against the completed report. Two years generally related experience required.
Employee Development Specialist, GS-235-5, 7, 9, 11, Code 654 - Position located in the Employee Development Division, Personnel Department. The incumbent is responsible for the Administrative Development Program; a variety of problem definition studies in support of the Supervisory and Executive Development Program; the incumbent, through studies, questionnaires, interviews, and analysis, determines the developmental needs of the administrative personnel of the Center in the four major areas of personnel, finance, management analysis and general administration. Develops programs for special training needs.
File application for the above with Sue Peresolowicz, Bldg 34, Rm 28, ph. 71577.
Non-local Competitive Promotional Examination for Leader Ordnance Equipment Mechanic, Ann. No. NPE-1(69), issued 24 June 1969. Competition is restricted to career or career-conditional employees of Naval and Marine Corps activities in the Eleventh and Twelfth Naval Districts who meet the experience requirements of this announcement. Interested applicants should file Application Card Forms NAVEXOS 4155-AB and 4155-AB, Standard Form 171 with the Civilian Personnel Office U.S. Marine Corps Supply Center, Barstow, California, not later than 14 July 1969.

CNO Mandate Reflects Concern Over Manpower Loss Accidents

The challenge to readiness posed by the death of over 500 and injury of several thousand Navy men on our nation's highways over the fiscal year now ending, as well as the humanitarian considerations involved in this tragic and needless waste of our Navy manpower, are matters of deep personal concern to me, as I am certain they are to each of you.

I consider it imperative that each Commander and Commanding Officer ensure that his command driving safety program receive his personal attention during FY 70, and particularly during the few days remaining prior to the 4th of July weekend. A careful review of the objectives, organization, methods, and especially the results of this program should be made at each level of command. A program which is not producing favorable results is obviously not an effective program, and requires corrective action with respect to its concept, methods, or implementation.

Over the past Memorial Day weekend, nine Navy/Marine Corps personnel were killed in private motor vehicle accidents. Our immediate goal should be to avoid a repetition of this tragedy over the coming weekend. In order to accomplish this, all hands must personally be made aware of the holiday weekend driving hazards, and provided with key safe driving guidelines, with emphases on the following:

- A. Abide by traffic laws.
B. Drive defensively.
C. Don't drive when drinking, tired or emotionally upset.
D. Be courteous.
E. Limit driving to essential trips.
Your efforts to revitalize our safe driving programs over the 4th of July holiday can provide the initial momentum needed to start FY 70 off for us with a major reduction in our private vehicle accident rate. We can accept no less than the personal participation of each commanding officer in the effort..

ADMIRAL T.H. MOORER

The Red Planet

A movie entitled "The Red Planet—Mars," will be shown at the next meeting of the China Lake Astronomical Society, Monday, July 7 at 401 McIntire St. The program will begin at 7:30 p.m.

The group is also planning an overnight "star party" to be held at the NWC 20-inch telescope site on Pinon Point. Arrangements for the star party, and a discussion on the observation of Mars will take place at the meeting. All Centerites are invited to attend.

Watch out for the kids who are learning to ride their new Christmas bikes.



AWARDS PRESENTATION — Members of Code 403 are shown at an Awards Presentation of Federal and NWC year pins in Conference Room A, at Michelson Laboratory. The recipients are: first row, left to right, Jeanette Blanton, 5 yr. NWC, and Bert Niccum, 5 yr. NWC. In the back row, left to right, are Vern Burkland, 20 yr. Fed.; Thomas Hayes, 20 yr. NWC, and Irwin Koff, 20 yr. Federal. Other awardees, not present for the photograph, are Raymond Boxx, 20 yr. Fed., 20 yr. NWC; Donald Jacks, 20 yr. Fed.; Robert Dow, 5 yr. NWC; Oscar Perkins, 20 yr. NWC; C. Lines, formerly of Code 4032, 5 yr. NWC.

Corona Employee Named Library Association VP

A native of Corona and an employee of the Naval Weapons Center, Stanley G. Reynolds, has been appointed to the post of Vice - President for 1969 and President for 1970, of the Trustee Division of the California Library Association.

Effective immediately, the appointment was made in Sacramento on June 16 by Mrs. Phyllis Dalton, Assistant State Librarian and current President of the California Library Association.

Commenting on his appointment Reynolds said this week, "Although my commitments to the Naval Weapons Center must come first, I welcome this challenge and opportunity to work ex-officio with library trustees statewide, in the continuing improvement of library services and facilities.

Through more united efforts, trustees can provide valuable support to growing demands by the public for an upgrading of library materials and services, through the sharing of resources by cooperative efforts, and by assuring that Californians have the maximum continuing opportunity for lifelong learning



Stanley G. Reynolds

which only libraries can provide economically. I hope that my contribution can be to help motivate library trustees generally towards common objectives on behalf of the programs of the California Library Association."

Reynolds is employed by the Naval Weapons Center, as Assistant for Plans and Programs to B. F. Husten, Head of the Fuze Department, at the Corona Laboratories.

He has been continuously engaged in Navy fuze research and development as a civil service engineer since 1950, initially for the Navy Bureau of Ordnance in Washington, D.C. He and his wife Helen moved to Corona in 1954, where he assumed his present duties.

President of Board
Active in civic affairs for some years, Reynolds is currently President of the Board of Trustees of the Corona Public Library, and has since 1963 strongly supported efforts to upgrade and improve library service in the Corona area. He is credited with major responsibility for assuring a \$360,000 Federal Grant administered by the California State Librarian, to support a \$1,080,000 building program for the Corona Public Library. Ground



"SHIPMATES" RELAX — Members of the Alaskan Shipmate Tour, sponsored by the Navy League, relax at the COM Pool during their two day stay at NWC. The boys, 42 in number, were winding up a tour of Navy installations in Southern California, and were being escorted by three Navy Liaison/ Escort Officers from Alaska.

New Gym and Swim Schedule

Table with columns for POOL and GYM, and rows for MONDAY through SUNDAY with specific time slots for Summer School, Adults, Open, and Swim Teams.



CORONA AWARDS—Mel Sorge (far right), Head, Central Staff, presents special awards to employees of the Accounting staff at NWC Corona Laboratories. From left to right, they are John Southwell, Freda Kosakoff, Wendy Walleen, Robert Sadler and Donna aVn Ness. The awards were presented in Corona.

Printed Circuit Facility Helps Center Mission

(Continued from Page 5)

Plans have been formulated to provide facilities to produce multi-layer circuits and flexible printed wiring.

A multi-layer circuit consists of layers of circuitry, each separated by an insulating dielectric, and interconnected between layers by one of several methods, usually through-hole plating.

A study is currently being made, by the Public Works Department's Engineering Division, of the feasibility of a proposed plating and lamination facility to be located in Rm. 140-J of Michelson Laboratory.

A laminate press capable of applying a pressure of 50-tons has been procured from surplus agencies and is currently being modified by the Dake Corporation, Grand Haven, Michigan under contract. Modifications include the provision of steam heated platens as well as instrumentation and controls necessary for printed circuit lamination processes.

Generally speaking, the more difficult applications of flexible and multi-layer circuitry demand a degree of manufacturing capability far beyond that necessary to produce single or double sided rigid circuit panels.

As a consequence, it is planned to limit application of these techniques to circuits which by their nature can afford to have a higher expenditure for the advantage which may accrue from the two concepts.

Tour Planned For New NWC Distaff Side

The wives of employees and officers who have arrived during the past year are invited to participate in a tour of NWC to be conducted July 11th.

The tour will start at Conference Room A at the Michelson Laboratory at 8 a.m. The first part of the program will answer those questions that concern the wives of new members of the NWC team—What does NWC do? How does my husband's work fit in?

The tour will add the third dimension to these presentations and acquaint the ladies with the China Lake community. In addition, a get-acquainted luncheon will be served in the Sun Room of the Commissioned Officers Mess.

Social Security Rep. At Community Center Wednesday, July 9

All employees with questions about Social Security provisions may contact a representative from the Administration here next Wednesday, July 9.

He will be at the Community Center from 8:30 to 11:30 a.m., and is available for consultation.

When people talk about a seven - day diet, they usually mean they're going to start about a week from now.

Dodgers Win Colt Championship Behind Two-Hit Branson Pitching

Young Don Branson, leading hurler for the Dodgers, shut-out the Colts, 4-0, last Monday evening at Schoeffel Field for the Colt League championship. Branson threw a 2-hitter as the Dodgers collected five hits off of Steve Robinson for the win.

The special play-off game was scheduled to determine the league champion after the Colts and Dodgers finished the regular 12-game season in a 9 and 3 deadlock.

Indians Champs

The Indians of the Pony "A" Division had no such problems, as they ran away with the A Division championship, with a record of 9 wins and 3 losses. The other three teams in the league were tied with identical records of 5 wins and 7 losses, showing the fine balance of the league.

In the Pony "B" Division, the Braves romped to their seventh straight win in the final game of the scheduled season to wind up in a tie for first place with the Angels, who had led the junior division for most of the season. In their drive for a tie in the final standings, the Braves scored 107 runs in 12 games to top all other clubs in the three league organization in run production.

The Angels and the Braves met Wednesday, July 2, at 5:30 p.m. in a special play-off game to determine the champion in their league. This game will be reported on in next week's Rocketeer, due to the early deadline of the paper.

A footnote to the Colt League season: Don Branson finished the season with eight wins and one loss, including the play-off game.

The post-season, double elimination tournaments for the Colt League and the Pony "A" Division began this week and will continue into next week before the tournament

champions will be decided. The Colt League games begin each evening at 8 p.m., while the Pony League contests are held at 7. All Valley residents are cordially invited by league officials to attend these no-admission contests.

Tennis Tourney Slated by C.L. Youth Center

The China Lake Youth Activities Center will hold a Junior Tennis Tournament July 12-13 on the Naval Weapons Center courts. Two boys and two girls, who must compete in the tourney, will be selected to attend the 21st Annual National Junior Tennis Championships at Arcadia, California, July 28 through August 3.

Registration deadline for the Kiwanis sponsored annual event is July 10. Applicants must be 14 years of age and must not have reached their 18th birthday by January 1, 1969. They must also be a member of the Youth Center. There will be no entry fee for this dual-sponsored event.

All interested members of the Youth Center are urged to apply early.

In addition, Carol Hape, of the Center, has announced that applications are now being taken for a 10-week ceramics class to begin Tuesday, July 8, at the NWC Ceramic Hobby Shop. The classes will be held on Tuesdays, from 8 p.m. to 10 p.m., and on Thursdays, from 1 to 3 p.m. There will be a fee of \$2.50 for Youth Center members, and \$5 for non-members. For further information, call Carol Hape, Extension 72909.



"A" DIVISION CHAMPS—Members of the Indians, Pony League "A" Division Champions, pose for this team picture following a successful season in which they finished four games in front of the other three teams in the league. From left to right in the front row are: R. Lavern, E. James, B. Larabee, T. Anders, B. Malone, and L. Haack. In the back row, left to right, are: L. Christman, S. Chieze, M. Oliver, D. Scott, J. Salmon, R. Stalnaker, M. Backman, and D. Chieze, the team's manager.

Klassen Chucks No-Hitter for NAF

Due to an unfortunate set of circumstances, Pete Klassen's no-hitter against Genge on June 17 went unreported. This opportunity is therefore taken to apprise Center softball fans of the fine pitching effort performed by Klassen at that time.

Also, the Softball League would like to thank Hank Hawkins for his donation of a microphone, a welcome asset to fans attending the games at Reardon Field.

On Monday, June 23, El Rancho defeated mighty Ace TV, 1-0, behind the fine clutch pitching of Bill Brown. What is so far the biggest upset of the season came about when Jim Brown came to bat with two out in the seventh inning, and the score tied 0-0, and hit an inside-the-park home-run off of Bert Galloway. The loss for Ace TV made way for Ridgecrest Shell to take over undisputed first place in the hotly-contested league.

In the second game of the evening, Genge scored 19 runs aided by the big bat of Dink Patterson, who hit two homers, and batted in seven teammates to defeat VX-5, 19-9. Don Sichey hit a homer in the fifth inning.

On Tuesday, NAF squeaked by VX-5, 5-3. Jim Latta hit a two-run homer in the fifth inning.

ERA Maintained

In the nightcap, Bert Andreason maintained his perfect ERA at 0.000, while narrowly defeating Magic Clean-

ers, 3-2. Magic's two unearned runs came in the seventh inning. Ridgecrest Shell, by virtue of this win, remained in first place.

No games were played Wednesday, June 25, due to high winds.

In the only game played on Thursday, Magic Cleaners defeated El Rancho, 5-1, to stay 2½ games behind the leaders.

Al Hyles leads the league in RBIs with 15, and he and Andy Gilpin, both members of Ridgecrest Shell, lead the home-run category with 5 apiece.

Andreason has 103 strikeouts with 70 innings pitched, not too far behind Bert Galloway, who has 119 K's for

77 innings pitched. Galloway's ERA is now 0.018.

STANDINGS

Team	Won	Lost	Pct.	GBL
Ridgecrest Shell	9	1	.900	-----
Ace T.V.	9	2	.819	½
Magic Cleaners	7	4	.626	2½
El Rancho	5	5	.500	4
NAF	3	8	.273	6½
Genge	2	7	.222	6½
VX-5	1	10	.091	8½

BATTING

(Based on 25 or more at bats.)

Name-Team	AB	HR	RBI	Pct.
Denny Croger, Ace TV	33	15	0	2 .455
Don Williams, M.C.	28	12	3	8 .429
Drax Maulder, R. Shell	40	17	1	5 .425
Dink Patterson, Genge	26	10	2	9 .392
Bob Crawford, Ace TV	38	14	1	5 .366
Roger Short, R. Shell	38	14	0	4 .366
Wally Parmenter, M.C.	28	10	1	9 .357
Max Smith, R. Shell	27	9	0	8 .333
Dick Braun, VX-5	27	9	1	3 .333
Al Hyles, R. Shell	39	12	5	15 .308

Summer Bowling Interest High Despite Vacation Time Schedules

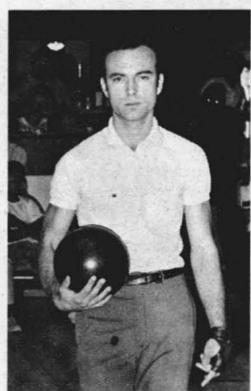
The Wednesday Night Handicap League reports that the CPO team took high series and high game for the week of June 25, blasting the pins for 2637 and 923 respectively. Ken Dalpiaz, who is presently averaging 192, shot 237 and 626 for high individual game and series.

COM is currently leading the league, with 24 wins against eight losses, followed closely by AMF with 23 wins, 9 losses. The CPO team lies in third position, boasting a 22 and 10 record, and the Elks are in fourth place with 20½ wins and 11½ losses.

Warren Schad holds high average in the league, boasting a fat 198 for six games, followed by Dalpiaz, 192. Dick Furstenburg has a respectable 187 for 15 games, and Bob Tegowski is averaging 185 after 24 games played.

Ray DeCastro has high individual series for the league so far, a 643. Tegowski holds individual high game, a 244, and the Elks hold high game with a 948 total. The Blazers lead the high team series department for the season thus far with a blazing 2759.

Maurycy Coleman, League secretary, reports that next week COM will meet AMF; CPO will



KEN DALPIAZ

play the Keys, who are in seventh place, and the Elks will meet the Blazers.

Fred Dalpiaz, manager of the China Lake Bowl, reports that alleys are available for open bowling from 11 a.m. to 6 p.m., Monday through Thursday, and from 11 a.m. to Midnight, Friday, Saturday and Sunday.

He also advises that since resurfacing the lanes, scores are quite high, and invites all Centerites to come to the Bowl and try their hand.

New Merit Promotion Program Implemented by Personnel Dept.

Beginning July 1, a new merit promotion policy was implemented by the Naval Weapons Center that is designed to assure equitable consideration of qualified employees and selection of the most able person to fill required positions.

The government-wide policy places emphasis on: Giving all employees a chance to receive full consideration for promotion. Using the most effective rating methods to identify highly qualified candidates for promotion, with use of written tests only when approved by the CSC.

Selecting from among the best qualified. Eliminating all forms of discrimination or personal favoritism. Keeping employees well informed about the program and their own promotion opportunities.

According to the Civil Service Commission, key features of the new policy are: 1. General. Merit principles apply to all promotions in the competitive service including career promotions and promotions identified as exceptions to competitive promotion procedures. All promotions will be subject to provisions of the policy governing equal employment opportunity, relationships with employees and employee organizations, and the handling of employee complaints.

2. Area of Consideration. Agencies must provide for considering qualified candidates in as broad a segment of the agency as practicable. 3. Methods of Locating Candidates. Instructions are provided on the use of vacancy announcements and skills files to assure that all employees receive full consideration. Supervisors may refer candidates for consideration but may not pre-select candidates for promotion or make a name request for one of the competing employees.

4. Determining Basic Eligibility. Standards prescribed by the Civil Service Commission will be considered minimum standards for promotion, and all candidates who meet these standards will be considered basically eligible for promotion. The standards include appropriate factors for selective placement and reflect any special provisions the Commission makes for inservice placement.

5. Evaluating Eligible Candidates. Job-related requirements above those set in minimum qualification standards are to be used to differentiate among basically eligible candidates to identify those who are best qualified. Supervisory appraisals of performance must be obtained and used in the evaluation process, and an employee must be shown an appraisal of his past performance used in a promotion action if he requests it.

6. Ranking and Selection. Selection must be made from among the best qualified candidates available. 7. Supervisory Positions. In identifying and evaluating candidates, an agency must use the supervisory qualification standards published by the Commission or equivalent agency standards.

8. Procedural Requirements. Personal favoritism in selecting employees for promotion continues to be prohibited. Such practices as last-minute additions to promotion certificates, reappraisals of candidates, and unreasonable delays in selection must be avoided.

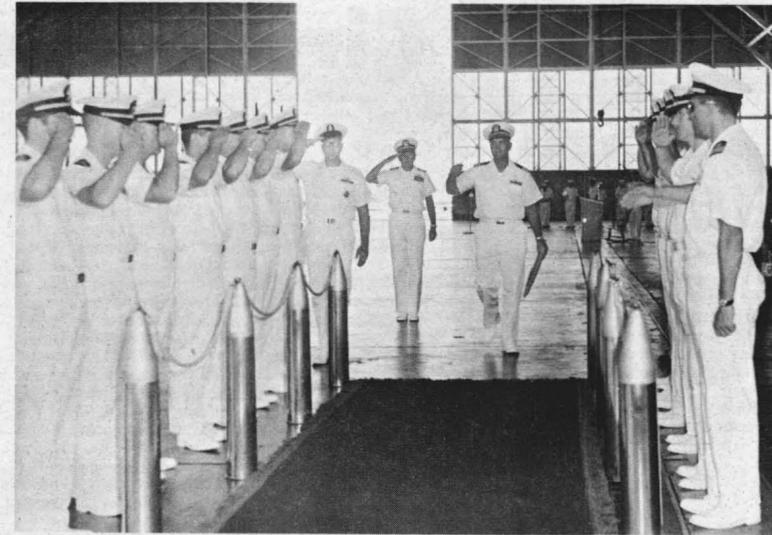
9. When Competitive Promotion Procedures Must Be Used. Competitive procedures must be used to fill by transfer reinstatement, or reassignment a position having known promotion potential, such as a trainee or understudy position. Whenever a promotion is involved, competitive procedures must also be applied to candidates being considered for transfer or reinstatement.

10. Details and Temporary Promotions. Agencies generally should not detail an employee to work temporarily at a higher grade level unless there are compelling reasons for doing so. Normally, except for brief assignments, an employee should be given a temporary promotion instead. 11. Special Consideration for Repromotion. An employee demoted without personal cause must be considered for repromotion before other means are used to fill a position.

12. Relations with Organizations and Employee Organizations. The new policy contains better guidance on obtaining employee views on promotion guidelines and scope of consultation or negotiation with employee organization and on what matters may be considered. 13. Employee Complaints. Employee complaints that cannot be resolved informally are to be processed under applicable grievance procedures, including union-negotiated procedures.

14. Records and Reviews. Promotion records must include enough information and be kept long enough to enable reviewers to assure that all Commission and agency requirements have been met. Agencies must review their promotion programs at least once a year. 15. Corrective Actions. In determining what corrective action is to be taken in case of a promotion violation, agencies and the Commission will consider the equities of all employees involved, as well as the interest of the government itself.

O. A. "Gabe" Imer, Special Services Director, has released information regarding the hours of operation for Special Services facilities on the Center. The Library, and the Ceramics Shop will be closed July 4. The Carpenter Shop, Electronics Shop and the Community Center will be closed Friday, Saturday and Sunday, July 4 through July 6. A special program is planned for the Independence weekend at the Youth Center. All other facilities will be open regular holiday hours.



RETIREMENT CEREMONY — Cdr. J. D. Eden, Executive Officer of the Naval Air Facility, is piped over the side at retirement ceremonies held Friday, June 27, at NAF Morning Quarters in Hangar 3. Cdr. Eden

was commissioned in April, 1943, after serving 10 months in the Navy Reserve. He reported to NAF 2 October, 1967. Cdr. Eden and his wife Helen, and Deborah, Kim and James will live in Oxnard.

Navy Relief Society Reaches Goal

Camaro Won By Jud Smith

Judson Smith, of 513 Ticonderoga, on the Center, won the 1969 Camaro in a drawing held at 10:30 a.m., Saturday, June 28 in Bennington Plaza. The winning ticket on the automobile, the first prize in the Navy Relief Fund Drive, was drawn by Miss Debbie Murphy, 1969 Burroughs Homecoming Queen.

LCdr. C. M. Bates, coordinator for this year's drive, announced that the gross amount donated this year totalled \$10,334, putting the drive over the top of their goal of \$10,000. LCdr. Bates also stated that this is a new record, topping last year's drive by almost \$900.

He also announced the support of Walt's Sporting Goods and Miller Chevrolet in Lone Pine; Desert Motors, Jim's Tire Service, and the El Rancho Motel in Ridgecrest, and the Foster's Hacienda Motel in Bishop, plus the Knights of Columbus for allowing the Camaro to be exhibited at their Spring Festival.

"This is in addition to the fine support we received from businesses and businessmen from Randsburg, all the way to Bishop," he stated.

Other winners in the drawing held Saturday, are: R. D. Murray, a \$50 grocery certificate from Shopping Bag; Leroy Reynolds, a bicycle from Western Auto; V. W. Dotson and M. W. Doubleday, a steam iron from Montgomery Ward's each; Verna Yelland, a gift certificate from Ship's Bell Jewelers; R. H. Driggs, a gift certificate from Kings for Women, and Cal Mitchell, a gift certificate from the Gift Mart.

LCdr. Bates also would like to take this opportunity to thank all of the keymen and other workers who participated in this year's Navy Relief Fund Drive for the fine support they gave, in making this year's drive a success.

The people of the world will never do very much about air pollution until it interferes with television reception.



NAVY RELIEF DRAWING—LCdr. Bates, at lectern, had a lot of help determining who the lucky recipients of the recent Navy Relief drawing would be from (l-r) Debbie Murphy, 1969 Burroughs Homecoming Queen; Sybil Auld, Miss Ridgecrest Auto Dealers Asso; and Anne Edwards, Winner of the Groves School Citizenship Award for 1969. The Chevy Camaro was won by Jud Smith from NWC.

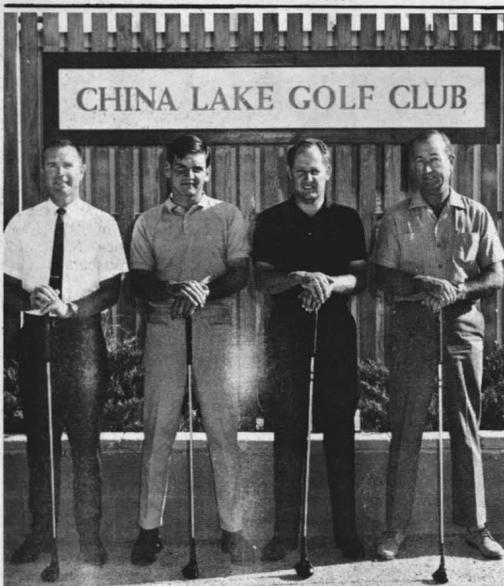
INDEPENDENCE DAY MESSAGE TO MEMBERS OF THE ARMED FORCES

On July 4, 1969, we shall observe the 193rd anniversary of the Declaration of Independence. This is a special day to be celebrated by all Americans. It is a time to recall with joy and celebration the proclamation of "liberty throughout the land," on that Glorious Fourth in 1776, the day our Nation was born.

In the words of John Adams, our second President, this day "ought to be commemorated . . . by solemn acts of devotion to God . . . solemnized with pomp and parade . . . from one end of this continent to the other, from this time forward, evermore."

Our heritage of the democratic principles of the equality and dignity of all men and their "unalienable rights of life, liberty, and the pursuit of happiness" stems from this document. These principles, to which the Declaration's founders mutually pledged their lives, their fortunes, and their sacred honor, are today protected by all men and women in the Armed Forces. For this, all Americans can be proud of your contribution to our security—to ensure that succeeding generations of Americans will always be able to celebrate Independence Day.

Richard Nixon



CHINA LAKE GOLF CLUB

LONE PINE CHAMPS — The four golfers pictured above won all the marbles at the Lone Pine Invitational Golf Tournament June 28 and 29 at the Mt. Whitney Golf and Country Club. The golfers are, from left to right, Max Smith, Pat McDonald, Curt Bryan and Bill McIntosh. Smith and McIntosh tied for first low net on the 28th, with McIntosh winning first low net with a 63. McDonald and Bryan won 1st low gross in the partners tourney on Saturday, and on Sunday McDonald carded a 67 to win individual low gross. Bryon took 2nd low gross with a 70.

Club Chaparral Hosts Nite Crew

On July 4 the Club Chaparral will present "Yaro and the Nite Crew." Mike Weinberg, manager of Club Chaparral, suggests that residents of NWC begin the 4th of July weekend with a bang by attending the club for a night of dinner and dancing.

He also advises that tickets for the upcoming Luau will be available from the Advisory Board Members or himself. The Luau will be held July 19 at the Club.

Printed Circuit Facility Enhances NWC Capability

The Engineering Department's Electronic Prototype Branch, Code 5534, recently completed rehabilitation of its Printed Circuit Facility and has greatly enhanced its capability to produce small quantities of specialized printed circuits in support of NWC development projects.

With the expansion of the facilities, it is now possible to greatly increase the printed circuit development and processing services of the branch.

Under the direction of D. J. Johnson, the branch has the facilities, equipment and trained technicians to design, develop, fabricate, test and docu-

ment electronic packages in printed circuit and other configurations.

Printed circuits are produced in much the same manner as photographic prints. Master artwork of the desired circuit is laid out at some ratio larger than the actual size (usually 2X, 4X, or 10X). The master is then photographically reduced by a specified percentage ratio and a film negative of positive results.

Printed circuit material (1 or 2 oz. copper foil bonded to one or both sides of a substrate such as epoxy-glass) is then coated with a photo sensitive emulsion and printed by ex-

posure to infra-red light through the negative or positive mask.

After developing in a chemical solution, the printed circuit board is coated with a dye, touched up to eliminate pin holes or other minor imperfections, and etched by exposure to ferric chloride acid in an oscillating spray etcher.

A cleaning process is then employed to remove or "strip" the board of emulsion and etchant residue. The printed circuit board becomes a functional electronic circuit after machining and drilling and insertion of components by technicians.

The expanded facility is now capable of providing a complete electronic packaging service. The availability of this service should serve to relieve circuit designers of this phase of circuit development, since specially trained technicians are available to move through the package development cycle from the generation of master artwork to testing and documentation of the device.

Specifically, the shop is equipped to: Develop master artwork from rudimentary circuit schematics, using the tape method; develop R. F. stripline master-artwork by the cut and peel method; process conven-

tional printed circuit boards from working master photographic negatives or positives; produce printed circuit boards with plated through-holes; selectively plate copper surfaces with Gold, Nickel, Silver, Rhodium, tin-lead and copper; assemble the printed circuit module by insertion of components; solder by hand, dip, or flow (wavesolder); test the completed circuit to determine whether the design criteria have been met and to provide the designer with the data; provide technical data for use in developing formal documentation of the hardware.

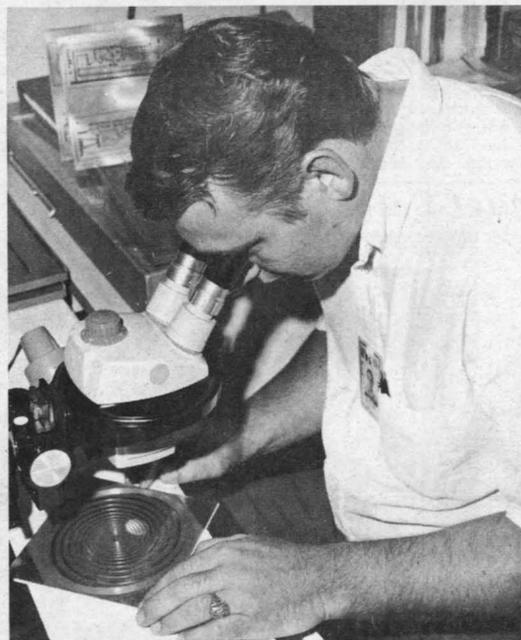
(Continued on Page 7)



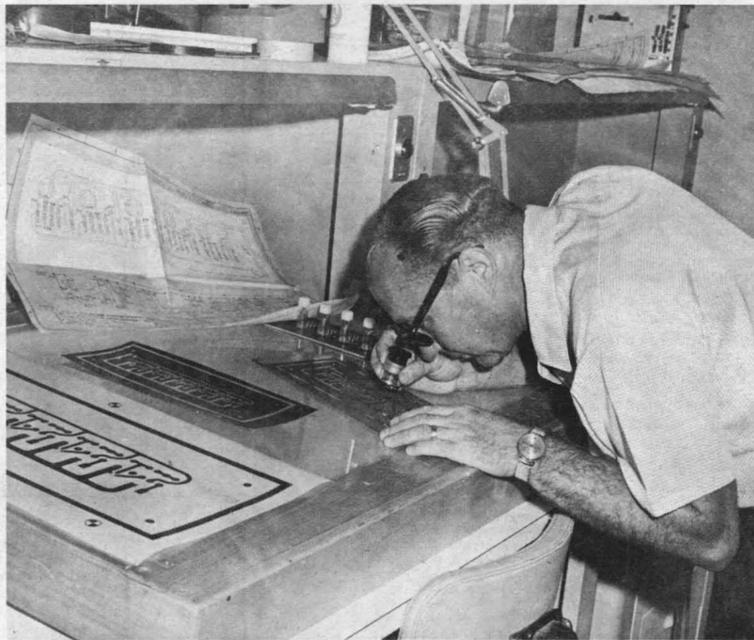
ARTWORK LAYOUT—Roger McCollough, Electronic Technician, is shown taping master artwork of a printed circuit layout. The artwork will be photographically reduced to actual size and a film mask made up for use in the printed circuit process.



TOUCH UP—Minor pinholes and imperfections are covered with an etch resistant ink prior to etching. Charles Knowles is shown touching up a circuit that has been treated with a dye to make imperfections visible under magnification.



CRITICAL MEASUREMENT—John Brittan, Engineering Technician, is shown measuring the width of copper lines on a spiral antenna prior to completion of etching. Calibrated microscopes and comparators are used in this stage of the process to insure accuracy of line and gap widths.



QUALITY CONTROL—Supervisory Electronic Technician C. J. Manhart inspects a completed printed circuit for conformance to military standards. Artwork and negative

film mask used to produce the board are shown in the foreground. Partially obscured by Mr. Manhart's right hand is a completed circuit module.



PRINTING—Charles Knowles prepares to print a circuit on a Micro-Miltronix double sided printer. The circuit is exposed to ultraviolet light from banks of lights above and below the board for a period determined by the timer in the foreground.

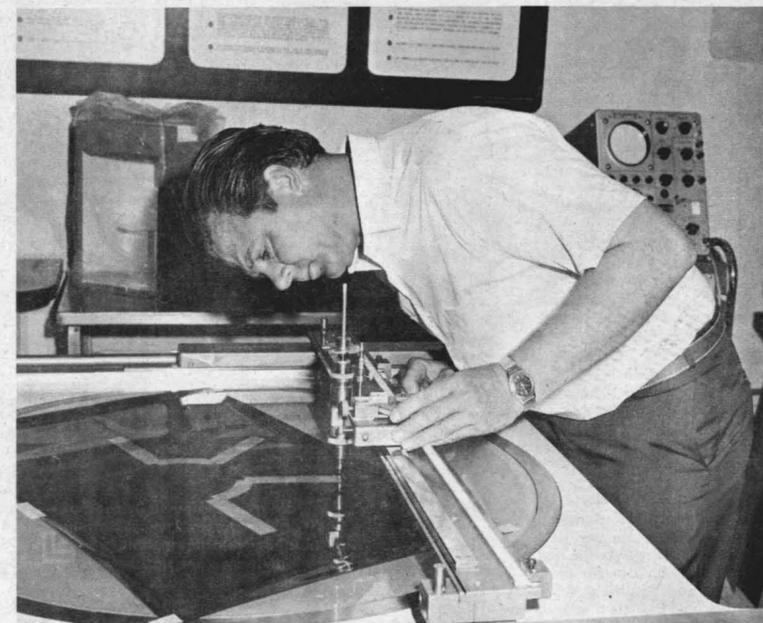


SPRAY ETCHING—Charles Knowles is shown adjusting the controls of an oscillating spray etcher. The machine sprays hot ferric chloride acid on the board as it is carried through the chamber on a conveyor. Rollers of the conveyor are visible through the clear polyvinyl chloride window of the etching chamber.

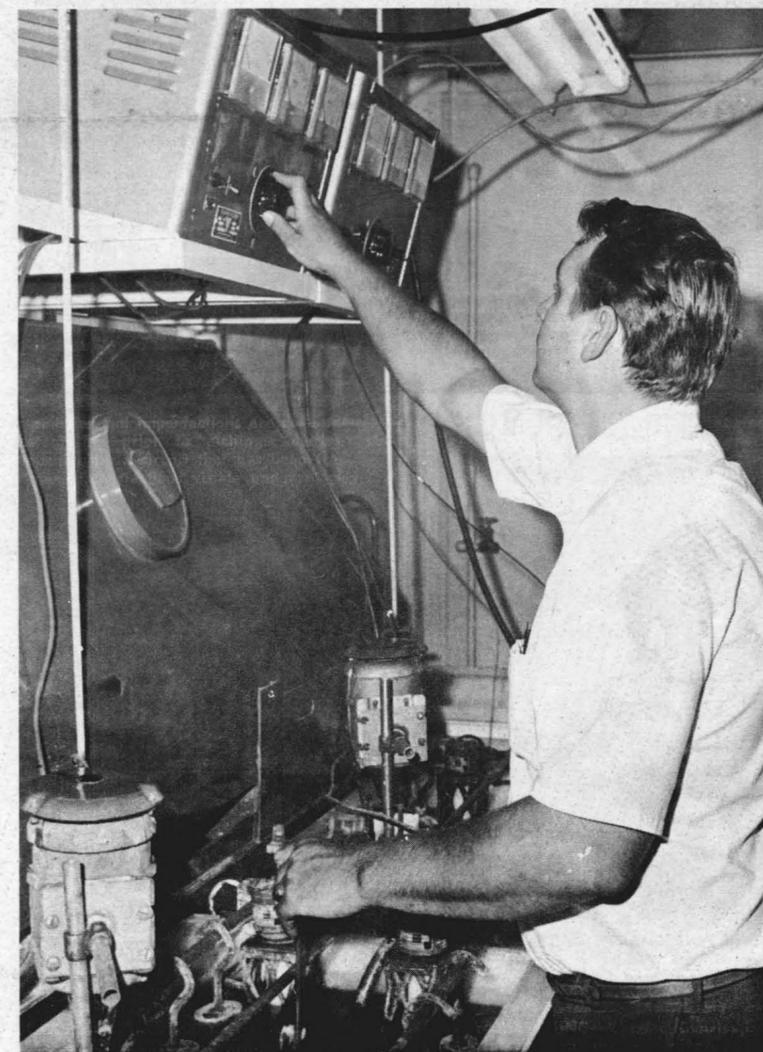


ONE OF MANY TECHNIQUES—Charles Knowles, Etched Circuit Maker, applies photo-sensitive emulsion to a board prior to spinning. Circuit card is spun at 120 R.P.M.

to apply a thin, even coating of emulsion. This technique is used to achieve a high resolution reproduction of the film mask in a highly efficient manner.



CUT-N-STRIP—Dean Ricketts, Mechanical Engineering Technician, is shown adjusting a Faul/Coradi Coradograph for the final cut on a master of an R.F. stripline circuit. Material, opaque to ultraviolet light, master to an accuracy of .001" in 28 inches.



THROUGH-HOLE PLATING—John Brittan is shown adjusting controls of a copper plating bath rectifier used in the through-hole plating process. Special facilities are used to insure reliable adhesion of metals to electrically non-conducting substrates.