

### Rehearsals Under Way For New CLOTA Offering, 'Company'

Now in the midst of an arduous series of rehearsals, the cast and crew of the upcoming CLOTA musical, "Company," have only two more weeks to prepare the show for opening night.

"This is a hard-working, motivated cast," said Florence Green, the play's director. "I think the community will be delighted with the results of all their work."

An adult musical comedy, "Company" makes the statement that marriage, as difficult as it is, is a commitment worth striving for. Bobby, a 35-year-old bachelor, portrayed by Stacy MacGregor, watches the bitter and hilarious games played by his married friends, and concludes that he is ready to risk a relationship that would leave him vulnerable to his own hurts and the needs of the other person.

Played on an imaginative multi-level set, designed by Jim Fussner and constructed by Jim Werle and crew, "Company" demands singing, acting, and dancing talents from all its participants. Musical director Scott Miller commented, "This is difficult music for untrained voices, but with a lot of hard work, things are really beginning to sound good."

Others working on musical aspects of the show have been Russ Parker, Joan Renner, and pianists John Zenor and Mary Eisel. Choreographer Carol Woodridge has been assisted by Dori Morrione.

Other technical people are Liz Babcock, assistant director; Vernon Green, lighting director; June Renfroe and Ruth Howell, in charge of properties; Camille Menz, set dresser; and Rick Green, stage manager.

Set to open on Friday, Aug. 9 at 8:15 p.m., the musical also will be presented on Aug. 10, 15, 16, and 17 in the Burroughs High School Lecture Center. Tickets, priced at \$2.50 for adults and \$1.25 for students, are available at the Gift Mart in Ridgecrest, the Station Pharmacy, and from members of the cast.

### IWVMT Meeting Set

The Indian Wells Valley Metal Trades Council will hold its next regular monthly meeting on Thursday, Aug. 1, at 65-B Halsey. The gathering will begin at 7:30 p.m.

The Council is the representative of a unit composed of the Center's non-supervisory, ungraded, civilian employees of the Naval Weapons Center who are located at China Lake.



**TO OPEN AUG. 2**— Sheila Snell (l.) and Gay Gandolfo are shown in a scene from "Bus Stop," the William Inge play that will be produced by the China Lake Players on Aug. 2, 3, 9, 10, 16 and 17. Curtain time is 8 o'clock each evening at the Players' Hut, 405 McIntire St., on the Center. Admission will be by reservation only due to the limited seating of the Hut. The number to call is 446-2273, to reserve a seat.

### Pool of 20 Billets Allocated To NWC's Upward Mobility Program

Since the Center's earliest days, individuals have progressed from semi-skilled and clerical jobs to positions of skilled tradesmen and technicians as well as to a variety of administrative and managerial areas.

In further recognition of the value of this kind of mobility, both to the individual and the Navy, the Center has recently issued an instruction formally establishing an Upward Mobility Program at NWC. A pool of 20 billets has been allocated to support the program.

#### Purpose of Program

The purpose of the program is to expand the career opportunities of employees in lower graded positions with no, or limited, promotional potential by providing them the opportunity to move to positions where advancement potential is greater. The program may be applied, at management's option and with the required approvals, to positions in grades GS-2 through GS-9 and their trades/crafts and labor equivalents (e.g. WG-2 through WG-9) if the position has promotional potential to GS-7 or WG-7 level or above.

A training agreement between the Navy and the Civil Service Commission (CSC) provides for modification of CSC qualification requirements for individuals selected for participation in these kinds of programs. Professional scientific and engineering positions requiring positive education requirement or the equivalent are not included.

#### Committee Established

A Center Upward Mobility Program Committee has been established composed of the EEO Coordinator, the Federal Women's Program Coordinator, the head of the Personnel Department, a Technical Department head, and a Support Department head. Any department desiring to participate in the Upward Mobility Program submits a proposed position with supporting documentation to the committee. If approved, the position is then advertised in The ROCKETEER. Applicants are rated by a panel which includes the EEO Coordinator and referred to the cognizant supervisor for selection.

The employee selected is initially either detailed or reassigned to the trainee position at his or her current grade level and a training plan (minimum six months—not to exceed two years) is developed by the supervisor and the department's Personnel Management Advisor. The purpose of the trainee position and the training plan is to qualify the employee for an entry level position (known as the "target" position) with promotional potential in the specific occupational series involved.

#### Final Step

Following successful completion of the training plan, the employee is assigned or promoted to the target position. The department involved is "loaned" a billet for the duration of the training plan.

The first three Upward Mobility Program positions have been proposed and approved, and are advertised in this issue of The ROCKETEER. They are a Budget Analyst, an Administrative Assistant, and a Contract Administrator.

In addition to applying for these positions, employees (particularly those below the GS-6 level) may contact their department's personnel management advisor if they have any questions regarding this program or for career counseling in general.

**SAFETY SEZ:**  
Use your headbone  
before using backbone.

## SHOWBOAT

**MOVIE RATINGS**  
The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.

(G) - ALL AGES ADMITTED  
General Audiences  
(PG) - ALL AGES ADMITTED  
Parental Guidance Suggested  
(R) - RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian  
CS - Cinemascope  
STD - Standard Movie Screen  
Regular starting time—7:30 p.m.  
Matinee—1 p.m.

FRI. 26 July

"SNOOPY COME HOME" (89 Min.)  
Animated Cartoon  
(Cartoon) Snoopy, the beagle who has the refinement of Beau Brummel, the imagination of Cyrano de Bergerac, the intellectual grace of Voltaire and the mobility of a Mack truck, is concerned with a previous owner—a little girl who is in the hospital for some undefined reason and who wants Snoopy back. She gets him too, along with Woodstock, the little bird who is Snoopy's private secretary, but whose main accomplishment is the head-on collision he effects with any obstacle in sight. (G)

SAT. 27 July

"FAMILY MATINEE—  
"WARLOCK" (121 Min.)  
Richard Widmark, Henry Fonda  
—EVENING—  
"SKYJACKED" (101 Min.)  
Charlton Heston, Yvette Mimieux  
(Suspense Drama) A hijacked 707 jetliner, originally in flight from Oakland to Minneapolis, is the background for a story involving all aboard. (PG)

SUN.-MON. 28-29 July

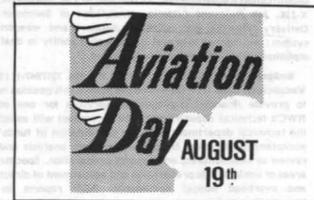
"LIGHTNING SWORDS OF DEATH" (89 Min.)  
Tom Wakayama, Goh Kato  
(Action Drama) The code of the Samurai is one of honor and devotion to his duty. A mercenary Samurai hires out his services for any reason, including assassination, and enjoys complete immunity within the province of his lord. Master swordsman Oqami (Tom Wakayama), once executioner for the Shogunate, is discredited by a jealous clan. He roams the countryside with son Daigoro, 2, allowing him to witness his swordsmanship to teach him the ways of a cruel world. (R)

TUES.-WED. 30-31 July

"BILLY TWO HATS" (109 Min.)  
Gregory Peck, Desi Arnaz Jr.  
Jack Warden  
(Western) Lawman Jack Warden tries to ambush a trio of outlaws. He mortally wounds one and captures Desi Arnaz, Jr., while Gregory Peck escapes during the shootout. Warden plans to escort Arnaz personally to trial. Enroute, however, Peck shoots Warden in the shoulder and frees Arnaz. After they flee several miles across the desert, one of their pursuers uses his buffalo gun to shoot and kill Peck's horse. In the fall, Peck's leg is broken so Arnaz constructs a travois for him. Eluding Warden until nightfall, the outlaws (Arnaz and Peck) persuade a homesteader to transport Peck to a doctor. (PG)

THURS.-FRI. 1-2 Aug.

"FIDDLER ON THE ROOF" (179 Min.)  
Topol, Norma Crane  
(Musical) The story of the Ukrainian village of Anatevka and the people who live there circa 1905, with special attention to Tevye, the milkman, and his family. (G)



From \_\_\_\_\_ PLACE STAMP HERE  
TO \_\_\_\_\_



Dr. Frank Reed

### 11 Employees Of Center Earn College Degrees

Six Naval Weapons Center employees received master's degrees under the USC Fellowship program and five others received degrees at other institutions of higher learning during the past year, according to a report received this week from Dr. Gilbert J. Plain, the Center's Education Director.

With the exception of a Ph.D. degree that was awarded by Stanford University to Frank Reed, head of the Operations Research and Statistics Branch in the Research Department, and Winfred E. Johnson, who received a bachelor of science degree in electrical engineering from the University of California at Santa Barbara, all of the others received master's degrees.

Those who earned their MS degrees under the USC Fellowship program were Charles G. Thurman, Brad Royer, Thomas J. LaJeunesse, and Bert P. Vandenberg, all

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### Thunderstorm Dumps Record Rainfall Monday Night on Indian Wells Valley

Residents of the Indian Wells Valley scurried for cover at 6:30 last Monday night when the heaviest downpour in memory struck the area.

Monday night's spectacular display of Mother Nature's fury was triggered by a trough of warm, unstable air that had moved up from the Gulf of California.

According to the Naval Air Facility Weather Service 1.35 in. of rainfall had poured on the valley by 8 a.m. Tuesday—a record for any single month in the 28 years of the Weather Service's operation.

AG-1 Rick Jackson, of the NAF Weather Service office, stated that the average rainfall in a year in the valley is 2.81 in. Including this past week's precipitation, the figure for 1974 is already at 5.83 in. The most rain in any one year was recorded in 1965 when the amount of precipitation totalled 9.15 in.

#### Record Rainfall Recorded

Monday night's 1.35 in. is also the most rainfall recorded in any 24 hr. period during the last 28 years. Along with the record downpour, wind gusts of up to 46 knots were recorded by the weather station.

The combined wind and rain, accompanied by brilliant flashes of lightning coming from straight overhead, caused many problems of flooding, power outages, and at least one wall of water.

Nancy Jones, editorial assistant at The ROCKETEER, reported that she and some fellow students were returning from class at Cerro Coso Community College, and were met by a 4-ft. high wall of water at the intersection of Bowman Rd. and College Heights Blvd. "A small foreign car was washed off the road and into the ditch that runs adjacent to College Heights Blvd.," she said.



Naval Weapons Center  
China Lake  
California

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### In Address to IEEE

## Dr. G. L. Hollingsworth Cites Need For Systems Integration Among Laboratories

"The one thing that will be a real challenge to us in the future, as engineers, is to 'stop the nonsense,'" Dr. G. L. Hollingsworth, NWC's Technical Director, said to a packed audience of engineers and other scientists at a China Lake Institute of Electrical and Electronic Engineers' luncheon last Monday at the COM.

The new TD, who came to NWC from the Naval Air Development Center, Johnsville, Pa., where he was also the Technical Director, was referring to the lack of systems integration amongst the nine Navy laboratories and the other 33 Federal laboratories in the nation.

"We've got to communicate with people all up and down the system," he said, "so that people within the system understand the problems confronting us and how to fix them."

Dr. Hollingsworth told the assemblage that Navy engineers are going to see some changes in the future. "Dr. D. S. Potter, who will soon be the Under Secretary of the Navy, wants to reduce excessive inter-lab competition. The selection process used in the competition amongst laboratories is not an effective one," Dr. Hollingsworth pointed out. "He (Dr. Potter) sees a fair amount of duplication of effort from his vantage point on the 'outside.' Add to that, we're going to



Dr. G. L. Hollingsworth

get more work and less people to do it. If you look at Congressional actions, you'll see a steady reduction in head count going on, and it's going to continue," the speaker added. "What this means to us, is that all of us are going to have to get smarter about our jobs and find out ways to do them more effectively," the Technical Director told his audience.

Earlier in the meeting, Dr. Hollingsworth briefly explained the structure of the Navy laboratories, citing the fact that a \$2.75 billion budget was "poured into a large cement mixer, really some 13 agencies, that churn money into four big funnels."

"The nine CNM labs (of which NWC is one) get \$583 million of that; \$250 million goes to the Office of Naval Research's three labs; a similar amount to the Federal Contract Research Centers and Test and Evaluation Centers, and \$1,630 million,

approximately 60 per cent of the total budget, goes to private industry and other non-government R&D activities," Dr. Hollingsworth said.

"It is our job to assure successful specifications, application and operation of Navy systems," he told his audience. "We must help the Navy buy what it needs, get what it needs, and see that it works when they get it, with the people they have to operate it," he added.

"Is there a better way to do this?" Dr. Hollingsworth asked, and then answered his own question.

"Laboratories should be in a position where they can be a trusted adviser to SysCom. We must guard our position to remain uncompromised, in order to give good advice. SysCom needs the advice of an objective, intelligent person who is not biased. That person will come from within the Navy labs," he said.

#### Source of New Ideas

Navy laboratories should be a source of new ideas. "There should be more initiative from the labs. We should also be a source of 'instant help' to the Fleet. In cases where something goes wrong, the labs should provide the skilled help that is needed to solve the Fleet's problems," the Technical Director stated.

"Most importantly, we need somebody to remember what goes on. In the current system of contracting, the same guy shouldn't win the same contract every time," Dr. Hollingsworth pointed out. "Hence, we can't expect our contractors to provide this essential memory. Somebody has to remember these things so that the

(Continued on Page 3)

### 'Well Done' Extended By CNM to Center For Winning Award

A congratulatory message was received this week from Admiral I. C. Kidd, Jr., Chief of Naval Material, addressed to Rear Admiral R. G. Freeman III, NWC Commander, in recognition of the fact that the Center has won the SecNav 1974 Environmental Protection Award. The message read as follows:

"Congratulations to 'All Hands' at the Naval Weapons Center for your superlative achievement in winning the Secretary of the Navy's 1974 Environmental Protection Award.

"It should be a source of great satisfaction to you and all your people to know that you have been able to contribute so successfully to the overall improvement of the environment, particularly in an area renowned for its natural beauty.

"Success in this important program coupled with equally outstanding performance of your basic mission at China Lake, rounds out an impressive record of accomplishment for your hard working civilian and military team.

"Please accept and pass to all members of the Weapons Center my sincere 'WELL DONE.'"



**IN THE STORM'S AFTERMATH**— Workmen were kept busy all day Tuesday gathering debris, mainly tree branches and limbs, that were littered throughout the Center. High wind gusts of up to 46 knots, were responsible for the damage. Little damage was done due to flooding and lightning, although some power outages occurred in isolated spots on the Center. Everything was nearly back to normal, however, by Tuesday afternoon. One of the most extensive aftereffects of the storm was the breakdown in telephone service which, on the ranges will not be restored until sometime next week.

—Photo by Ron Allen



**FUZE DEPT. MEN RECEIVE AWARDS**— Five patent awards and one Beneficial Suggestion award were presented recently by R. M. Hillier (at right), head of the Fuze Department, to employees in his department. Among the recipients were (seated from left) Matt Anderson, Jim Means, Steve Redmond and Ray Nichols. Anderson and Means received an additional award of \$40 each for a patent entitled "Optical Accelerometers," while Means also received another \$40 for a second patent, "Pressure - Armed Explosive Apparatus," that was developed in cooperation with Redmond. On top of that, Anderson also split \$100 with Redmond for an initial patent, "Improved Armed Bomblet Fuze," and Nichols received \$50 for his patent, "Active Optical Terminal Homing." Other patent award recipients (not present for the photo) were Jim Rudeen, who divided a \$100 award with Wilbur Hunt and John Markall (both ex-NWC employees) for a patent entitled "Guided Missile Warhead Fuze." The lone Beneficial Suggestion award of \$60 was shared by Larry Brauer, Don Leonard and Wilbur Hunt, who came up with an idea for a "A Non-explosive Signal for Track Tests."



GETTING ACQUAINTED — Bob Rafal (l.), president of the NWC Hebrew Congregation, his wife, Suzy (r.), and Betty Jane Leonard, wife of Dr. Guy Leonard, who is the lay leader of the NWC Protestant Congregation, discuss the local community with RAdm. F. L. Garrett, Navy Chief of Chaplains and NWC Chaplain Capt. R. E. Osman. RAdm. Garrett spent last weekend at NWC and preached at both the 10:15 a.m. Protestant service on Sunday and at the 11:30 a.m. Catholic Mass. —Photo by PHAN Joe Dunn

### Motorists Reminded To Exercise Care At NWC Main Gate's 'Left Turn Only' Lane

Due to several near misses and some damage accidents at the left turn lane just outside the main gate, care and caution is needed by all Center residents and it is asked that they caution their guests about the possible hazard at this intersection.

A recent incident involving a motorcycle rider illustrates the hazard. The motorcycle rider was turning left from the right lane preparing to go south on China Lake Blvd. The motorist in the left lane did not make a left turn, but instead attempted to continue west while the motorcycle was turning with a resultant very near miss which could have caused serious injury.

Since the arrows on the pavement at this intersection have become worn, the State Highway Department has been contacted and the arrows will be repainted as soon as the paint crew can be brought to the Ridgecrest area. At that time, a check also will be made of the area to determine if other markings might be employed to help the motorist.

A sign is being placed overhead on the

guard house at the main gate stating, "Left Lane Must Turn Left" so it can be viewed by west-bound traffic. Another reminder will be painted on the pavement in the left lane just west of Sandquist Rd.—"Left Turn Only,"—so that motorists will merge right if they are to continue west.

The Safety Department suggests that personnel riding motorcycles make a real effort to merge into the left lane if they are planning to turn left at this intersection so that an incident similar to the above will not reoccur.

### Bike Alteration Illegal

Modifying or altering a bicycle in such a way as to cause the pedal in its lowermost position to be more than 12 in. above the ground is a violation of Section 21201 (b) of the California Vehicle Code. Operating such a bicycle on a highway in California is therefore illegal.

### PROMOTIONAL OPPORTUNITIES

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 452, Ext. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 454 or 457). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason.

**Machinist (Maintenance) Helper, WG-5315-05, JD No. 329, Code 70423** — Assists journeyman in overhauling, maintaining and repairing machinery, shop equipment, ordnance plant processing equipment and machinery, power plant equipment, pumping plant equipment and range testing equipment. Performs simple elements of the trade alone within his ability and knowledge, including the use of journeyman tools and equipment. Incumbent will be participating in a Pre-Journeyman Development Program. Minimum Qualification Requirements: Rating will be on the basis of the appropriate J-Element Standard in accordance with the X-118C.

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

**Supply Clerk (Typing), GS-2005-4, PD No. 7325006, Code 2337** — Performs clerical and accounting duties in the Control Division, Supply Department. The incumbent is responsible for screening, segregating by classification, assembling and filing documents required for effective payment to contractors and vendors. Establishes new files and prepares completed records for disposition. Receives and routes branch mail; receives telephone inquiries and refers to the proper personnel. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Ability to follow a document, identification, classification and filing procedure. Knowledge of Navy filing system. Ability to type.

**Electronics Engineer, GS-855-9/11 or 12, PD No. 7350047, Code 3313** — This position is located in the Radio Frequency Branch of the Fuze Department. The incumbent makes theoretical analyses for the design of passive and active microwave systems and concepts. He originates and designs active and passive radio frequency components using microwave integrated circuit techniques. Designs microwave oscillators and amplifiers using distributed lumped circuit elements to provide CW or pulsed units as required for a particular application. Minimum Qualification Requirements: As defined in the CSC Handbook X-118. Job Relevant Criteria: Knowledge of microwave integrated circuits (MIC) and the theory of solid state devices. Understanding of oscillator, amplifier and other electronic circuitry. Knowledge and/or experience in MIC construction techniques.

**Electronics Engineer, GS-855-9 or 11, PD No. 7350018, Code 3313** — This position is located in the Radio Frequency Branch of the Fuze Department. The incumbent makes theoretical analyses for the design of antennas and other active and passive radio frequency devices applicable to fuze system concepts. He designs radio frequency components, electromagnetic radiators, primarily antennas, including fast and slow traveling wave antennas, in waveguide and microstrip configurations. Reviews technical reports of fuze RF components contractors. Minimum Qualification Requirements: As defined in the CSC Handbook X-118. Job Relevant Criteria: Knowledge in electromagnetic transmission and radiation. Experience in the design of continuous source leaky-wave antennas. Experience in Fortran programming.

**Clerk-Typist, GS-322-3 or 4, PD No. 7433017, Code 3333** — This position is located in Fuze Project Branch III of the Fuze Department. Incumbent types memoranda, reports, manuscripts, letters of technical nature, etc. from handwritten drafts and verbal instructions. Incumbent is responsible for editing contents, correctness of grammar, punctuation, spelling and use of proper format. Also types itineraries, makes reservations and typed travel orders. Receives visitors and telephone calls from other agencies, contractors and NWC personnel. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Must be a proficient typist. Must have the ability to comprehend technical terminology. Must be familiar with policies and procedures for official correspondence. Ability to work independently.

**Electronics Engineer, GS-855-7 or 9, PD No. 7432040, Code 3334** — This position is located in Fuze Project Branch IV, Development Division I, Fuze Department. Incumbent plans and conducts a variety of experiments involved in electronic engineering projects for guided missile proximity fuzes and related test equipment. Designs and develops items of electronic equipment of conventional type; plans and conducts field or laboratory tests for technical or operational evaluation of fuze circuit elements or other units of equipment. Minimum Qualification Requirements: As defined in the CSC Handbook X-118. Job Relevant Criteria: Thorough knowledge of the principles and theory of electronic engineering. Experience or knowledge in the test and evaluation of guided missile proximity fuzes desirable.

**Motor Vehicle Operator, WG-5703-6, JD No. 164-2, Code 25923** — This position is in the Delivery Section, Receiving Branch, Material Division, Supply Department. Incumbent drives straight-in-line trucks of more than 7000 pounds but less than 22,000 pounds gross vehicle weight. Drives truck on special or established trips to transport supplies and equipment for on- and off-Center destinations. Loads and unloads material and checks material against various types of records for correctness and maintains trip records. Makes operational inspections of vehicle for loose parts, tire wear, battery condition and similar conditions. Job Relevant Criteria: As defined in the appropriate Element Standard of CSC Handbook X-118C.

**Supply Clerk, GS-2005-3 or 4, PD No. 7325008, Code 25924** — This position is located in the Receiving Branch, Material Division, Supply Department. As Hold Line Clerk,

incumbent identifies material for delivery, or if undeliverable, follows procedure to aid in the identification of such material. Operates teletype terminal to obtain information on status of Purchase Orders, Blanket Purchase Agreements and Imprest Fund purchases. Minimum Qualification Requirements: As defined in the CSC Handbook X-118. Job Relevant Criteria: Ability to deal effectively with the public. Knowledge of Supply, Receiving and Purchase Branch functions and procedures. Must have initiative and accuracy in document and paperwork processing.

File applications for the above with Claire Lewis, Bldg. 34, Rm. 212, Ph. 2371.

**Physical Science Technician, GS-1311-5/6 or 7, PD No. 7445048, Code 4542** — As a physical science technician in the Materials Research Branch, will perform molding of specimens, compounding of adhesives, testing and evaluation. Will interpret data obtained from commercial infrared spectrophotometer and thermal analysis apparatus, and branch developed equipment. Reduces data while tests are underway if necessary. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Experience in handling chemical ordnance. Ability to develop new techniques. Ability to make careful observations.

File applications for the above with Mary Morrison, Bldg. 34, Rm. 210, Ph. 2393.

**Secretary (Typing), GS-318-4 or 5, PD No. 7445022, Code 451** — This position is located in the Employee Management Relations Division of the Personnel Management Division of the Personnel Department. The position provides secretarial and clerical support to the division. Over time, the incumbent will be expected to gain a working knowledge of the applicable regulatory material in order to assist and advise Center employees in the areas of awards, grievances, union negotiations, etc. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Familiarity with Employee Relations regulations and policies; ability to meet deadlines under pressure; ability to type efficiently and accurately; stenographic abilities desired. Advancement Potential: Could lead to position of Employee Relations Assistant, GS-203-6.

File applications for the above with Sue Prasolowicz, Bldg. 34, Rm. 206, Ph. 2577.

**Secretary (DMT), GS-318-4 or 5, PD No. 7340154, Code 4003** — This position is secretary to Head, CVX Study Program Office. Duties include keeping program manager's calendar, scheduling meetings and conferences, arranging travel, typing a variety of reports and correspondence, receiving visitors and telephone calls, drafting inter-office memos and maintaining files. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Must be familiar with Navy correspondence format. Ability to meet deadlines under pressure. Knowledge of the IBM Mag Card II typewriter is desired but not an absolute requirement.

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

**Clerk-Typist, GS-322-3 or 4, PD No. 7355114, Code 5584** — Applications will be accepted from current NWC career or career conditional employees only. Position is located in the Reliability/Maintainability Branch, Product Assurance Division of the Engineering Department. Incumbent provides clerical and typing duties to the branch personnel, acts as receptionist, maintains branch files, etc. Job Relevant Criteria: Must be a qualified typist. Ability to get along with others and ability to work under pressure. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

**Engineering Technician (N/C Parts Programmer), GS-802-9, PD No. 7455101, Code 5545** — Applications will be accepted from current NWC career or career conditional employees only. Position is located in the Numerical

(Continued on Page 7)

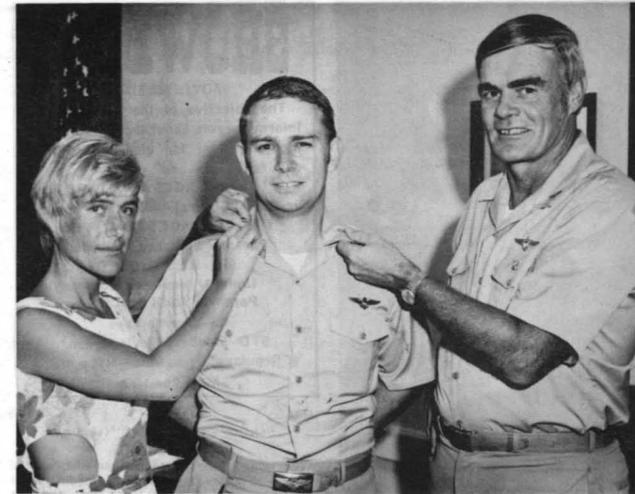
# THIS IS THE SUMMER OF 55.



America's still running on limited fuel supplies. So this summer, go easy on the gas. Hold highway driving speeds to 55 m.p.h., or slower. It'll save fuel. It'll save money. And it might just save your life.

## Don't be fuelish.

FEDERAL ENERGY OFFICE  
A Public Service of This Newspaper & The Advertising Council



**NOW LIEUTENANT COMMANDER — Capt. R. S. Moore (r.), Commanding Officer of the Naval Air Facility, and Barbara Gulley, pin new collar insignia on former Lt. J. H. Gulley, now a lieutenant commander. Lcdr. Gulley, who is a 10 year veteran in the U.S. Navy, reported to NAF in April 1972 from Attack Squadron 196, at NAS Whidbey Island. He is now the Projects Officer at NAF.**

### PROMOTIONAL OPPORTUNITIES

(Continued from Page 2)

**Control Programming Section of the Engineering Department.** Works under a senior programmer, is responsible for the preparation of parts programs for numerical control manufacture. Provides technical advice to engineers in areas related to numerically controlled machine tools and reviews hardware design for compatibility with N/C manufacture. Minimum Qualification Requirements: As stated in X-118. Job Relevant Criteria: (1) In depth knowledge of machine shop practices usually gained through working in the trade, (2) good understanding and working knowledge of APT, mathematics through trigonometry, analytical and descriptive geometry desirable, (3) working knowledge of a wide variety of specifications, such as Mil Specs, Federal Specs, Army-Navy Specs, etc. (4) knowledge of characteristics and capabilities of machine tools available both "in-house" and industry, and (5) proven ability to deal tactfully with customers.

File applications for the above with Wilma Smith, Bldg. 34, Rm. 204, Ph. 2925.

**Accounting Officer, GS-518-14, PD No. 817857, Code 176** — The incumbent in this position is the Head of Central Staff's Accounting and Disbursing Staff. The incumbent is primarily responsible for providing Center management with timely and pertinent financial data and advice principally through the management of the Center's accounting program. Incumbent will provide direction and coordination of all management accounting programs and will develop financial center procedures regarding accounting and financial reports. The incumbent will also represent the Center in dealing with on- and off-station management officials and will be highly involved in the general management of the Central Staff. This position will be advertised Navy-Wide. Job Relevant Criteria: Extensive experience in the field of Navy Industrial Fund Accounting, Cost Accounting and Auditing; working knowledge of management systems such as budget analysis, management analysis and automated data processing; working knowledge of Center's technical mission and its programs is highly desirable; ability to provide second-level supervision; demonstrated ability to deal effectively with individuals at all levels of management. Minimum Qualification Requirements: As defined in the CSC Handbook X-118.

**Electronic Technician, GS-654-9, PD No. 3431886, Code 3134** — This position is located in the Inshore Warfare Systems Branch of the Surface Missiles Department. The prime function of the Branch is the analysis, development, support and fleet training of swimmer delivery vehicle (SDV) systems. The incumbent is responsible for liaison activities involving extensive travel as representative of the Branch in the area of SDV systems electronics. The incumbent will be responsible for the modification and construction of SDV electronics equipment such as obstacle avoidance and doppler navigation SONAR, SOR controller, etc. Promotion Potential: GS-11. Minimum Qualification Requirements: As outlined in CSC Handbook X-118. Job Relevant Criteria: Knowledge of Swimmer Delivery Vehicles and swimmer support and weapon system; willingness to travel extensively; ability to deal diplomatically with off-station personnel.

**Budget Analyst, GS-560-9/11 or 12, PD No. 7317047-1, (2 Vacancies), Code 172/173** — The purpose of this position is to provide financial management services for one of NWC's technical departments. The incumbent will assist the technical department with the coordination of funds' acceptance, allocation, budget preparation, analysis and review of expenditures, and reports preparation. Specific areas of work include preparation and adjustment of direct and overhead budget documents, ADP reports in interpretation and investigation, execution of department expenditure control policies. Job Relevant Criteria: A knowledge of financial management principles and an analytical ability to provide financial management, a background in budgetary and accounting procedures, and a complete understanding of fiscal reports and task assignment structure in Department of the Navy and the Center. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

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

### Announcements

The announcement for Maintenance, Foreman, WS-4740-10, Code 70, Ann. NWC-08 (74) previously announced is hereby cancelled.

### Job Opportunities

Bartender, NA 7441-3 (12.35 ph), PD No. 74EMO 101, Code

## Employee In The Spotlight

Whatever else he might be, William A. Arriola is a courageous man. "Anyone who has 10 women working for him, and is the only male in the office learns many truths," he said.

Bill is head of the Administrative Operations Office for the Systems Development Department's staff, which is a long way from the business of motion picture printer and processor — his first job after graduating from the Brooks Institute of Photography, in Santa Barbara.

Born in Los Angeles, but raised in San Diego, Bill attended college at San Diego State following a tour of duty in the U.S. Navy as a pharmacist's mate. "I knew I was in trouble when my counselor called me into an office around graduation time, looked me into the eye, and said, 'Bill, how would you like to become a policeman.' I surmised I was flunking college," Bill laughed, hence the photography school.

### Believes in School Motto

The motto at Bill's high school, (San Diego High) was "I will find a way or make one," and he has lived by this motto ever since. Bill likes a challenge. He learned to fly simply because he felt he should. This was when he was working as a photo optical equipment designer and often had to "ride" along in aircraft while testing his equipment.

He received his first patent for the same reason. "I saw one hanging on a wall once, and thought, 'I wonder if I can get one of those.' I found out that inventing something is easy," he explained. Since that time, Bill has garnered three more patents.

After a brief stint at Ft. Carson, Colo., where he was a film librarian and motion picture photographer for the Army, Bill came to NWC. The year was 1956, and he joined the Photo Lab as a photographer.

In 1958, he moved to Code 3521 as a photo optical equipment designer, and during 12 years working in that field he picked up the skills of contract administration, fiscal administration and similar areas. In early 1972 he was made head of the Program Support Branch, Code 5116, and was appointed to his present job in January of this year.

### Solves Tough Problems

Bill's philosophy of life is mirrored in the application of his duties. John Kleine, head of staff for the Systems Development Department, noted that "Bill is the kind of person to whom you give the tough problems with the confidence that he will successfully solve them. He routinely comes up with

### YOUTH MATINEES

The bow and the fiddle, Stan Laurel and Oliver Hardy, will bring their special brand of comedy to the Center Theater on Tuesday in a youth matinee film entitled, "Bull Fighters."

The famous duo are perhaps the most celebrated comedians in history and theatergoers never fail to enjoy an offering by them. The film will be screened at 1 p.m. Admission is free to all paid-up annual members of the Youth Center. All others will be charged 30 cents each.

On Thursday, Aug. 1, Debbie Reynolds, Paul Lynde, Henry Gibson and Agnes Moorehead will lend their voices to a full-length cartoon feature, "Charlotte's Web."

### Invitational...

(Continued from Page 6) Games on Saturday will be played at 10 a.m., 12 noon, 2, 4, 6 and 8 p.m. at all three diamonds simultaneously. All games on Sunday will be held at the Pony League diamond only, beginning at 9 a.m. The championship game is set for 3 p.m. Sunday.

In the event a team from the losers' bracket wins the 3 p.m. clash, then the final game of the tournament will be played at 5 o'clock.



William A. Arriola

more than one acceptable answer, allowing management an alternative. A great employee," Kleine stated.

In addition to the patents, Bill has earned three Beneficial Suggestion awards, two Sustained Superior Performances, and a Quality Step Increase.

His past history reads like a scene out of "Guys and Dolls." Bill's father was a gambler and dance hall operator in San Diego, and was killed during a gangster war in that area. Bill lived in foster homes as a result and joined the Navy to see "... what the rest of the world looked like.

"I especially wanted to go to Chicago, Ill., but that never happened. Instead, after guarding some duck's eggs beside a lake at the Corona Naval Hospital, I applied for corpsman duties with the Marine Corps and was assigned to them, and sent to Samoa where the great 'outhouse burning incident' occurred," Bill said.

### Burned Down Outhouse

A city boy, Bill didn't realize that outhouses could be moved, and when told to burn out a two-holer on the island, did so without moving the building. "The results left us a little short of facilities," he laughed.

Bill lists his marriage as one of the highlights of his life. "I first met Aurelia at a party in San Diego, and neither of us liked one another," Bill remembers. "However, she worked at a dime store in the area, and I knew she started to care when I got a pretty full bag of popcorn for a dime," he recalled.

Regarding the supervising of an office full of women, Bill says "You can't fool them. They remember all the small details of a conversation and hold you to it. They are meticulous to the point of aggravation, but know how to get a job done well. If you lie to them, you're in a lot of trouble. It sure teaches you honesty in your relationships with them," Bill said, a glitter in his eye.

### Hobby Is Credit Union

His only hobby is the NWC Federal Credit Union, and he is now serving as president of the board of directors. "With assets of \$27 million and 14,000 members, there's little time for anything else," Bill explained. Bill joined the Credit Union in 1958 as a member of the credit committee. He became chairman of the credit committee in 1966 and held that post until 1971 when he was elected to the board of directors. He became president this past January.

He is also a past president of the China Lake Toastmasters Club, and a past president of the Cactus Squares dance group. In addition, he is vice president of the Kern County Chapter of California Credit Union League.

Bill's other interests lie in motorcycle riding, swimming and traveling. He especially likes Las Vegas and shooting craps. "Must be a throwback to my father," he grinned.

### The Rocketeer

Official Weekly Publication  
Naval Weapons Center  
China Lake, California

RAdm. Rowland G. Freeman, III  
NWC Commander

Dr. G. L. Hollingsworth  
Technical Director

C. E. Van Hagan  
Head,  
Technical Information Department



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Staff Photographers

**DEADLINES:** Tuesday, 4:30 p.m.  
Wednesday, 11:30 a.m.

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3354, 3355, 2347



### DIVINE SERVICES

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

**ROMAN CATHOLIC**  
MASS  
1700 fulfills Sunday obligation  
0700 0830 1130

**BLESSED SACRAMENT CHAPEL**  
MASS  
Daily except Saturday 1135  
First Friday only 1135 1635

**CONFESSIONS**  
1545 to 1645  
0800 to 0825

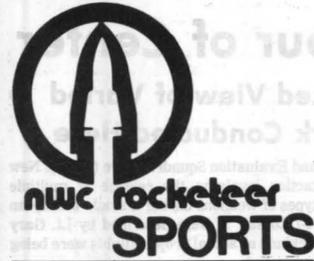
**CCD CLASSES**  
Sunday Kindergarten thru 6th grades 1015  
Wednesday Seventh and 8th grades 1900

Above classes are held in Chapel Annexes across from Center Restaurant.  
As announced Ninth thru 12th grades  
"In Home" Discussion Groups  
Monthly Youth Rallies

Contact Chaplain's Office for specifics.

**JEWISH SERVICES**  
**EAST WING — ALL FAITH CHAPEL**  
Friday 1st and 3rd ONLY — (Sept. - May.)  
Sabbath Services 2000  
Sabbath School 0900

**UNITARIANS**  
**CHAPEL ANNEX 95**  
Services — (Sept. - May.) 1930



By Jack Lindsey

Things are really popping down at the Center gym. Wilt Wyman, NWC's director of athletics, and Bill Nicol, intramural sports director, still recovering from the MDISL softball tournament, are gearing up for the 16-team 2nd annual China Lake Invitational Softball Tournament that begins today on three different diamonds — the Pony League diamond, Reardon and Schoeffel fields.

Wyman, who is beginning to appear a little haggard, is looking around the corner to Aug. 16, 17, and 18, when he will host a 16-team women's invitational softball tournament. And, he's soon going to be starting a series of elimination tournaments to choose the two most outstanding three-mile runners, racquetball players, badminton buffs and handball aficionados on the Center.

These eight athletes will represent NWC in the MDISL Sports Carnival in November — an event that replaced flag football, dropped this year by the MDISL board of directors.

And, speaking of flag football, Wyman would like all those who are interested in either playing or coaching flag football at China Lake this season to take one giant step forward. If there is enough interest, Special Services will map out a flag football program on-Center this year. Interested persons should call Wyman at NWC ext. 2334 or 2571.

Red-Headed Sandbagger

I thought I might warn all of the golfers at China Lake about a little, red-headed sandbagger who currently hangs his clubs out there. A couple of weeks ago, he spotted a golfer in the Intramural Golf League a stroke a hole, and closed the poor fellow out on the fifth green.

He can be seen hanging out with big bellies like Jess Moreno, Don Fraser, Dan Morey and such, so be careful. If a short, skinny lad of that description offers a game to you, avoid him like the plague.

Pony League All Stars Defeated At Sectional Tourney

The Indian Wells Valley Pony League All Stars were defeated last Sunday during the sectional tournament, played at Lancaster's National Pony League diamond.

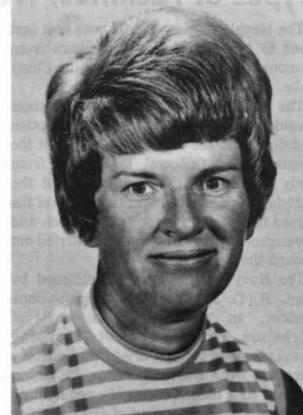
After losing the opening game on Thursday, July 18, to a strong Lancaster squad, 16-2, the local All Stars came back on Saturday to defeat Granada Hills, 7-6.

Winning pitcher Victor Wiggins aided his own cause with a grand slam homer in the first inning. The victory set up a return match on Sunday with the Lancaster All Stars.

The result was a horrendous 12-0 defeat at the hands of the Lancaster team. "They were definitely the better team and deserved the victory," said Bob Preul, manager of the local nine.

Manager Preul praised the sportsmanlike conduct of his players and scored his team 100 per cent on desire and effort. "We just didn't have it this year," he said.

Mary Ann Castor, George Baland Tapped As NWC's June 'Co-Athletes of Month'



Mary Ann Castor

Mary Ann Castor, current women's champion at the China Lake Golf Course, and LCDr. George A. Baland, member of the MDISL champion softball team, have been selected as "Athletes of the Month" for June.

Mrs. Castor, a native of Winslow, Ariz., won the championship early in June with rounds of 92, 94, a course record 80, and an 89, for a 355 total. A golfer for the past 10 years or so, she was also the women's club champion at China Lake in 1971.

Following her graduation from Winslow High School, she entered nurse's training in Phoenix and worked as a nurse at St. Joseph's Hospital for five years before moving to China Lake.

She met her husband, Gary, who is a mechanical engineer with the Shrike program at NWC, in Phoenix when he was employed by Sperry Phoenix, a division of Sperry-Rand.

Mrs. Castor, who was president of the Women's Golf Club in 1969, also lists bowling as one of her pastimes.

Won Ice Hockey Scholarship

LCdr. Baland, who was the catcher for the NAF Hawks in the China Lake Intramural Fast Pitch League, and was selected to play that position for NWC's Mojave Desert Inter-Service League softball team this season, says ice hockey is his favorite sport.

Born and raised in Virginia, Minn., Baland was a three letter man at Roosevelt High School—baseball, football and ice hockey. He received a scholarship to the University of North Dakota at Grand Forks, in the latter sport, and was a member of the National College Athletic Association's championship ice hockey team from that college in 1962.

He stated he indulges in sports whenever he is "shore based." A 10 year veteran, Baland enlisted in the Navy's Naval Aviation Officer Candidate Program and received his wings at NAS Pensacola, Fla.

During a three-year tour at Barber's Point, Hawaii, he excelled in volleyball, softball, badminton and horseshoes—"All the easy sports," he says—and was chosen "Athlete of the Year" by the Commander, Fleet Air, Hawaii, in 1968.

He came to China Lake in 1972 from Attack Squadron 55, NAS Lemoore, and saw duty in Southeast Asia aboard the USS Hancock.

During the past softball season, Baland compiled a batting average of .340, hitting six home runs.

The June athlete of the month says his wife, Peggy, likes all sports and never misses a game in which he competes. The couple has three children. They are David 5, Amy 4, and Mary 2.



George A. Baland

Registration For Tiny Tots' Swimming Classes Set Aug. 1

Swimming classes for tiny tots, from 6 months to 4 years of age, and for children, 5 to 10 years old, will be held at the Center swimming pool, beginning on Monday, Aug. 5.

Registration for the classes will be held on Thursday and Friday, Aug. 1 and 2, at the gym. A fee of \$4, payable in advance, will be charged for the tiny tots sessions, while older children must pay an \$8 fee.

The tiny tots will meet for eight sessions, beginning on Monday, Aug. 5. Classes will be held on Mondays and Wednesdays, according to the following schedule:

Infants from 6 to 18 months of age will swim from 9 to 9:30 a.m. Those tiny tots from 18 months to 2 years old will be taught from 9:30 to 10 a.m., and a class for 2 to 4-year-olds will be conducted from 10 to 10:30 a.m.

Classes for the older children will be held on Tuesdays and Thursdays, beginning on Tuesday, Aug. 6. Youths from 5 to 6 years of age will enter the pool at 8:30 a.m. The session for those 7 and 8 years of age will begin at 9:15 a.m., and children 9 and 10 years old will begin their training at 10 a.m.

Adrienne Swinford and Heather Thompson will be the instructors.

Classes at CPO Pool

Mrs. Swinford will also be instructing a swimming class at the Chief Petty Officers' Club pool, beginning on Aug. 5.

These classes will be for children, four years of age and up, who are dependents of active duty Chief Petty Officers, retired CPOs, or of authorized civilian guest members of the CPO Club.

GOLF LEAGUE STANDINGS

Following are the standings in the China Lake Intramural Golf League after 11 weeks of play:

Table with columns: AMERICAN DIVISION, NATIONAL DIVISION, Team, Won, Lost. Lists various teams and their records.

SLOW PITCH LEAGUE STANDINGS

Following are the standings in the Slow Pitch Division of the China Lake Intramural Softball League, as of Tuesday, July 23.

Table with columns: NATIONAL DIVISION, AMERICAN DIVISION, Team, Won, Lost. Lists various teams and their records.

Public Hearing On School Dist. Budget Slated Next Thurs.

A public hearing on the budget for the first year of operation of the Sierra Sands Unified School District will be held next Thursday, Aug. 1, starting at 7:30 p.m. in the Burroughs High School library.

According to Grant Pinney, the district's assistant superintendent for business services, the total amount available for expenditure during the 1974-75 school year will be \$9,903,226, while anticipated expenditures (prior to the completion of salary negotiations with teachers and classified employees) are estimated now at \$8,956,000.

Sources of income, and their amounts, are: federal, \$1,691,290; state, \$4,998,650; local property taxes, \$2,190,056, and Kern County, \$18,916. In addition, the Sierra Sands Unified School District also has at its disposal \$980,836 that has been transferred to it by the Burroughs High portion of the Kern High School District and the three local elementary school districts (China Lake, Indian Wells and Rand District) that now comprise the new unified school district.

Also available is some of the money that was advanced for the preliminary operation of the Sierra Sands Unified School District, but not used prior to its formal establishment on July 1. This totals another \$23,478.

The estimated tax rate for the 1974-75 school year is \$5.94 per \$100 of assessed valuation—or exactly the amount that was forecast at the time residents of this portion of northeast Kern County voted in favor of unification on May 1, 1973.

The current assessed evaluation of the area encompassed within the Sierra Sands Unified School District is not exactly known, Pinney noted. However, based on the county tax assessor's latest estimate, for every \$100,000 in increased property valuation, the school district's tax rate can be cut by two cents.

Training Class For Secretaries Offered

Enrollment is now being taken for a course in administrative training for secretaries that is scheduled from Aug. 20 to 22 at the Training Center between the hours of 8:30 a.m. and 4 p.m.

The instructor will be Helen Reynolds, a management consultant, who has conducted courses in effective office management for the U.S. Civil Service Commission, and is a resource person for the American Management Association in the U.S. and Canada.

Topics to be covered include: Helping to strengthen the supervisor's effectiveness, personal growth on the job, latest development for handling routine office tasks, managing time, and problem solving and decision making.

Employees interested in attending this course should submit an NWC enrollment form via proper department channels in order to reach Code 654 no later than Aug. 9.

Pilot Ejects, Makes Safe Landing From A7-C Corsair Wed.

Cdr. William C. Smith, the prospective Executive Officer for the Air Test and Evaluation Squadron Five, ejected safely from his disabled A-7C Corsair last Wednesday noon while flying a routine project mission.

Cdr. Smith, who is a 19 year veteran in the U.S. Navy, bailed out while the aircraft was over G Range, in an area nine miles northeast of the Naval Air Facility. He was flying at 5,600 ft. at the time. Cause of the crash is not known at this time and is under investigation.

The pilot reported to VX-5 recently from the Light Attack Wing, U.S. Pacific Fleet, NAS Lemoore.



METAL TRADES COUNCIL CONTRACT SIGNED — Rear Admiral Rowland G. Freeman III, NWC Commander, affixed his signature Wednesday morning to a three-year contract with the Indian Wells Valley Metal Trades Council. Looking on as this formality took place are (on left) Joseph W. Lechner, IWVMTA president, and Richard Hawkins, chief negotiator for the trades and crafts workers covered by the contract. Hawkins, from San Francisco, is an official of the Sheetmetal Works International. At right is Buddy Defnes, the Center management's chief negotiator. The contract covers working conditions and personnel policies—such as overtime, health and safety, promotions and disciplinary actions—but not wages.

Record Rainfall Hits Valley...

(Continued from Page 1)

worked round the clock answering emergency calls. Most of the problems were electrical, caused mainly by rain-soaked power lines and by lightning striking power poles and transformers. Throughout the Center on Tuesday morning, various areas were still without power, but the PW workmen quickly got things moving again. The NWC Dispensary went immediately onto auxiliary power after losing its main power early Monday evening. At Thompson Lab, personnel were sent home due to a 100 per cent outage, but were back on the job by 9:30 Tuesday morning.

The TV booster station on Laurel Mt. also became a victim of the lightning. According to Dick Furstenberg and Jim Reiger, all channels were out by 8:15 p.m. Monday. Channels 7, 9, 11 and 13 were back in operation by 7 a.m. Tuesday. Channels 2, 4 and 5 were on the air again later in the day.

TV Booster Knocked Out

"Lightning doesn't have to directly strike the TV booster station to put it off the air," Furstenberg explained. "All it has to do is be close and tubes are popped," he added.

Dave Henderson of the Southern California Edison Co., stated that crews from Barstow, Victorville and San Bernardino worked through the night alongside local crews to keep power on in Ridgecrest and the surrounding area. "We kept things moving, although we still had isolated power outages early Tuesday morning," he said. "The crews replaced 80 fuses and 20 transformers Monday night and Tuesday morning, all down from lightning strikes," Henderson added.

According to Lt. L. S. Murphy, Public Works Department project officer, Micheloson Laboratory suffered very little downtime from the storm. The only major areas where trouble was encountered were the outer ranges and Rahdsburg Wash.

Branches everywhere that had fallen from trees, and several trees knocked over, were removed.

Sea Cadets Involved In Summer Training

Typical of the extra training that is provided during the summer months for members of the VX-5 Naval Sea Cadet Corps Squadron, four local Sea Cadets returned recently from two weeks of recruit training at the Naval Training Center in San Diego.

This was the first such experience for John Clark, David Crow, Louis Shanteler and Kenneth Steelmon, who are NSCC recruits.

LCdr. Richard Schultz, NSCC, who commands the local Sea Cadet Squadron, also reported that Timothy Swann left June 29 for two weeks of Coast Guard type training with a Canadian squadron based at Colmax, British Columbia.

Hollingsworth...

(Continued from Page 1)

next time we buy something we can remember what we did right and what we did wrong," he expounded.

One of the other changes pointed out by the Technical Director was "... a stronger tendency to product orientation." Referring to the 1960s, he said, "No one is going to stand up anymore and say, 'Technology for technology's sake is enough.' You didn't have to say why you were doing something in the '60s, but you will now," he commented.

Relationship Essential

After all, when you go to Congress for money, you go to them for 'things' — submarines, torpedoes, missiles, an airplane. They see these as products; if they don't see relationships between laboratories and those hardware products, then our future is not a very secure one," the speaker added.

How will all this affect the individual? According to the Technical Director, it will make "... us do a better job of systems engineering. There will be little patience with poorly engineered systems. We're going to have to find a pragmatic approach; no more systems that are 'just nice to have,'" he noted.

"There will be more commonality. We have finally reached the point where we don't have to have three different kinds of radios — one for the Navy, one for the Army and one for the Air Force. We're also going to see commonality among functions. For instance," Dr. Hollingsworth told his listeners, "the ability to do microprogramming in digital machines will make it possible to build multi-function devices to do a number of things very well indeed. We won't have quite so many tailor-made digital machines, computers, signal analyzers, and the like, but we'll have general purpose machines, with microprogramming capabilities.

Better Job Needed

"That will mean the number of equipment types we'll need will lessen, and the big bugaboo will occur when you will do a poor job with software. We need to do a better job in generating software," Dr. Hollingsworth warned.

Prior to his talk, the Technical Director was called upon by the China Lake Section of the IEEE to install its new officers. This he did with a relish and an obvious enjoyment, he being a past member of the Institute of Radio Engineers, the forerunner of the modern-day IEEE.

Installed during the luncheon meeting were Dr. H. W. Swinford, as chairman; D. R. Brown, vice-chairman; G. J. Auger, secretary, and J. E. McGuire, treasurer.



USS HANCOCK OFFICERS VISIT NWC — Capt. P. J. Ryan (center), Commanding Officer of the aircraft carrier USS Hancock, was here recently with a group of seven other staff officers for an update on current technical programs involving air-to-air and air-to-ground weapons. Capt. Ryan is talking with Capt. T. C. Wimberly (back to camera), NWC Technical Officer, while Lt. R. F. Nielsen, Jr., the Center's Communications Officer, looks on at left. Capt. Wimberly served as executive officer of the USS Hancock before being assigned to his present duty at China Lake. Included among the visitors was Cdr. Paul Stephenson, Commanding Officer of Air Wing 21—a unit currently stationed at the Lemoore Naval Air Station while the USS Hancock undergoes re-work at Alameda in preparation for rejoining active units of the Pacific Fleet. —Photo by PH2 D. W. Yeatts

# NWC Employees Receive Degrees for College Studies

(Continued from Page 1)

employees in the Systems Development Department; Clifford J. Warner, a Weapons Development Department employee, and Randy Coates, who works in the Propulsion Development Department.

The three others who earned master's degrees (all employees of the Engineering Department) are Donald Herigstad, George A. Banura and Gary L. Petersen.

For his doctoral thesis at Stanford, Dr. Frank Reed prepared a paper on the subject of a general approach to the optimal utilization of a service facility as a function of various system costs. An NWC employee for the past nine years, Dr. Reed has a master's degree in Engineering/Operations Research from Stanford, which he received in 1968, and a bachelor's degree in mathematics, earned in 1952 at the University of Florida. He and his wife, Jacqueline, have two children, Lesli and Paul.

### Studied Control Systems

Charles Thurman and Brad Royer, both electronic engineers in the Electro-Optical Guidance Branch of Code 51's Guidance and Control Division, specialized in control systems while studying for master's degrees at USC.

Thurman, employed for 4 years at the Center, is a 1970 graduate of Washington State University. His wife, Judy, works as a budget analyst.

Royer received his BSEE in 1969, also from Washington State University, and has worked at NWC for the past five years. His wife, Shirley, is a teacher at Inyokern School.

Thomas LaJeunesse, another Code 51 employee to receive a master's degree under the USC Fellowship program, is an aerospace engineer assigned to the Agile Development Division. Before coming to China Lake four years ago, he earned a bachelor's degree in aerospace engineering at the University of Arizona. In studying for his master's degree, he specialized in electrical engineering/control theory.

LaJeunesse and his wife, Betty, have one child, a son named Paul.

The fourth Systems Development Department employee to receive his master's degree in June from USC is Bert Vandenberg, an electronic engineer in the Guidance and Control Division's Seeker Systems Branch.

The holder of a bachelor's degree in electrical engineering from UCLA, Van-



Charles G. Thurman Clifford J. Warner Thomas J. LaJeunesse Brad Royer Randy Coates



Bert P. Vandenberg Donald Herigstad George A. Banura Gary L. Petersen Winfred E. Johnson

denberg has been employed here for six years. A bachelor, he specialized in controls in preparing for his MSEE degree.

### MSEE Degree Received

A master of science degree in electrical engineering was awarded to Clifford Warner, another NWC employee who received an NWC Fellowship for study at USC.

An electronics engineer in the Advanced Design Branch of the Weapons Development Department, Warner has worked at China Lake for two years - coming here from California State University in Fresno, where he received a bachelor's degree in electrical and electronics engineering. Communications was his field of study in working for his MS degree.

### Works as Mechanical Engineer

Randy Coates, a mechanical engineer in the Conventional Weapons Division of the Propulsion Development Department, received a master's degree in mechanical engineering from USC this past January. A graduate of California State University at Long Beach, where he received a bachelor's degree in mechanical engineering in 1969,

Coates has been employed at NWC for the past 4½ years. He and his wife, Gail, are the parents of a daughter, Gail.

Donald Herigstad, who works in the Conventional Weapons Branch of the Engineering Department, received a master's degree in engineering administration this past June from the University of Utah. Employed at China Lake since June 1962, Herigstad came here directly from Portland State College after receiving a bachelor's degree in applied science. He and his wife, Lela, have two children - a son, David, and daughter, Debra.

A master's degree in engineering was awarded earlier this year to George Banura, who is employed in the Engineering Department's Electronics Branch. In working toward his MS degree, he specialized in electrical circuits.

### Northrop Tech Graduate

Banura joined the work force at China Lake after receiving a BS degree in electronic engineering from the Northrop Institute of Technology in 1972. He and his wife, Lila, have one child - a son named

Danny. Another of the recent recipients of a master's degree is Gary Petersen, who works in the Systems Development Department's Mechanical Design Branch. His MS degree in electrical engineering was awarded earlier this year by Brigham Young University, where he had also received a BES degree in mechanical engineering in 1970.

Petersen has been a Center employee for the past 4½ years. He and his wife, Kathleen, are the parents of three daughters - Michelle, Lisa and Wendy.

### Attended UC Santa Barbara

A bachelor's degree in electrical engineering (control systems) was awarded in mid-June by the University of California at Santa Barbara to Winfred Johnson, who came to work at China Lake in 1961. He is currently employed by the Propulsion Development Department, but assigned to the Missile Engineering Branch of the Systems Development Department.

Johnson and his wife, Peggy, have two daughters and a son - Loraine, Lisa and Stewart.

## Naval Engineering Service Unit To Begin Operation at NWC

Beginning Monday, a Naval Aviation Engineering Service Unit (NAESU) office will be opened for the first time at the Naval Weapons Center.

Herbert Snider, an aviation fire control senior chief, will be in charge of the local office, which is to be located in Rm. 2214 at the Naval Air Facility's Hangar No. 2.

ADCS Snider's activities will be under the administrative and operational control of the NAESU Detachment at the Lemoore Naval Air Station, where Snider has served as administrative assistant for the past two years.

NAESU was established in 1942 to administer a pool of trained officers and civilian technicians whose role it is to investigate and determine the best solutions to urgent problems arising from the maintenance and operation of new airborne electronic devices.

The current mission of NAESU is to provide field engineering assistance and instruction to naval aviation activities in the installation, maintenance, repair and operation of all types of aviation, systems and equipment.

As officer-in-charge of the local NAESU, Senior Chief Snider, who has been an aviation fire control technician in the Navy

for the past 18 years, will be dealing with technical representatives of such firms as McDonald Aircraft, Ling Tempco Vought

McDonald Aircraft, Ling Tempco Vought



ADCS Herbert Snider

(LTV), Bell Helicopters, Pratt and Whitney, Grumman Aircraft and Norden.

The Naval Aviation Engineering Service Unit headquarters is in Philadelphia, while the NAESU regional office in San Diego has

18 detachment / coordination offices on the West Coast and the western Pacific.

Among the functions of Senior Chief Snider's office will be to prepare procurement requests for all NAVAIR Aviation Contractor Engineering and Technical Services (CETS), and serve as technical adviser and administrator of NAVAIR aviation CETS contracts.

In addition, Senior Chief Snider will develop proposals for, or conduct such training, re-training and programming of teams of Navy Engineering and Technical

## Supplemental Insurance Plan Offered Fed'l Employees Not Backed by CS Commission

It has come to the attention of NWC Personnel Department officials that certain insurance companies have sent salesmen into this area in an effort to solicit membership of Civil Service employees in "a supplemental insurance plan for Federal employees."

According to information received from the San Francisco Regional Office of the U.S. Civil Service Commission, letters, literature, and verbal sales promotions directed to NWC employees by these companies may be misleading in that the language may give the impression that the insurance being offered is associated with

Service specialists as necessary to achieve the desired in-house capability. He also will collect, evaluate and publish technical information originated by or developed from engineering and technical services furnished to Fleet and shore activities.

Providing cognizant field activities and NAVAIR with information and recommendations on problems encountered in the operation and maintenance of weapon systems, the training of personnel and use of technical publications will be another of ADCS Snider's functions.

the Federal Employees Group Life Insurance Program.

Without wishing to influence employees in their decisions with respect to purchase of insurance coverage from such companies, a spokesman for the Personnel Department emphasized that these offerings are not sponsored in any way by the U.S. Civil Service Commission, and have no connection with the Federal Employees Group Life Insurance Program.

In addition, commercial solicitation on the Naval Weapons Center is prohibited, it also was noted.

# Pomona Navy Leaguers Taken on Brief Tour of Center

## Visitors Given Capsulized View of Varied Types of Facilities, Work Conducted Here

The Naval Weapons Center was host last week to a group of Navy Leaguers from Pomona who paid a brief visit to China Lake.

The visitors, led by Jim Deeton, their president, were guests at a no-host reception and dinner on the evening of July 17 at the Commissioned Officers' Mess, and from early morning until mid-afternoon of the next day were given a capsulized view of the varied facilities and types of research and development programs that are carried out aboard the Center.

The Navy Leaguers were welcomed by Capt. R. D. Franke, NWC Deputy Commander, in Conference Room B of Michelson Laboratory last Thursday morning and, after brief introductory remarks, were shown the film, "Evening Colors," as a means of quickly acquainting them with both the scope of the activities carried out at China Lake, as well as giving them a better idea of the local community itself.

### Machine Shop Inspected

While still in Michelson Lab, the visitors were escorted through the huge machine shop by Roy Williams, the man in charge, who described how certain equipment is operated by tape-punched information that comes from a computer. Not only are the movements and actions of the machine controlled in this way but, in some cases, various tools on the machine also can be changed.

During their look at the machine shop, the Navy Leaguers were taken through the heat treating shop, and observed welding, plating and sheetmetal work.

From the machine shop, the visitors next paid a visit to the A-7E Simulation Facility in Michelson Lab. They were met by Dan Allen, a mathematician, and 1st Lt. Larry Cardinal, USAF, who explained and then demonstrated how it is possible to use the simulator to check out an operational flight program for the A-7 Corsair II aircraft.

### Microelectronics Lab Visited

Next on the agenda was a look at the Microelectronics Laboratory, where Dr. W. P. (Bill) Webster, head of the Engineering Department's Microelectronics Branch, discussed the techniques that are used for fabricating miniaturized, but highly complex, electronic circuits.

Leaving the Microelectronics Laboratory, the Navy Leaguers traveled to the Charlie range tower, where they were met by Cdr. E. L. Wright, Executive Officer of Air Test

and Evaluation Squadron Five (VX-5). New tactics involving the release of multiple types of weapons during a single run by an A-7 Corsair II were described by Lt. Gary Ecklund as actual project flights were being conducted.

After leaving Charlie tower, the visitors toured the Center's ground ranges enroute to the G-1 range, where an explosive safety demonstration was presented by Chief Warrant Officer Gerry Dunn, a member of Explosive Ordnance Disposal Detachment 67, assigned to China Lake.

### Explosive Force Demonstrated

CW02 Dunn showed the potential hazard of a single blasting cap by setting one off inside a coffee can, and also detonated a 2 oz. shaped charge that had been set atop a 1-in. thick steel plate to demonstrate how much damage such a tiny amount of explosive can cause.

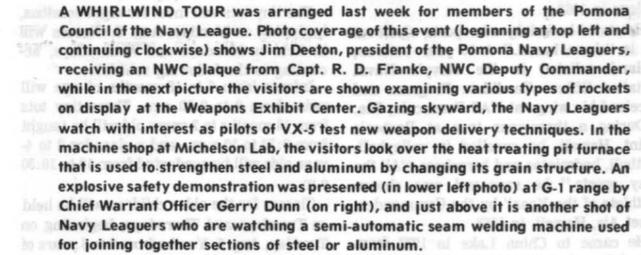
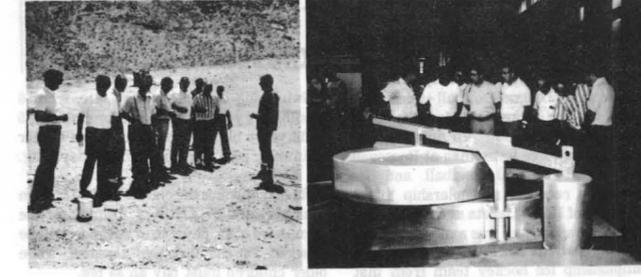
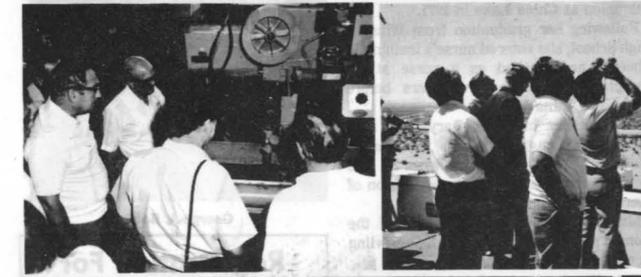
Following lunch at the Commissioned Officers' Mess, the Navy Leaguers spent the better part of an hour looking over items of interest in the Maturango Museum and the adjoining Weapons Exhibit Center. The latter includes exhibits of rockets, weapons and research work covering the 30-year span that the Center has been in existence, while Mrs. Alice Dubin, curator of the museum, was able to acquaint the visitors with information about the flora and fauna of this part of the Upper Mojave Desert.

### Final Presentations

Wrapping up of the visit by the Navy Leaguers from Pomona were presentations on weather modification and the role of a project officer at NWC that were given in Conference Rm. B at Michelson Lab.

Cdr. D. J. Spowart, military assistant in the Research Department's Earth and Planetary Sciences Division, discussed some of the materials and techniques developed at NWC for use in cloud seeding as he presented film slides about such work that has been carried out in India, the Philippines, on Okinawa and in the Azores.

The talk given by Lt. D. J. Sapp, conventional weapons project officer at the Naval Air Facility, centered around the various kinds of aircraft being used and the weapons being tested. Mentioned were Rockeye, Snakeye and Zuni rockets, the Antipersonnel/Antimaterial Cluster weapon (APAM), electro-optical weapons such as Walleye and Condor, as well as AGILE and AIM-9L, both air-to-air weapons.



A WHIRLWIND TOUR was arranged last week for members of the Pomona Council of the Navy League. Photo coverage of this event (beginning at top left and continuing clockwise) shows Jim Deeton, president of the Pomona Navy Leaguers, receiving an NWC plaque from Capt. R. D. Franke, NWC Deputy Commander, while in the next picture the visitors are shown examining various types of rockets on display at the Weapons Exhibit Center. Gazing skyward, the Navy Leaguers watch with interest as pilots of VX-5 test new weapon delivery techniques. In the machine shop at Michelson Lab, the visitors look over the heat treating pit furnace that is used to strengthen steel and aluminum by changing its grain structure. An explosive safety demonstration was presented (in lower left photo) at G-1 range by Chief Warrant Officer Gerry Dunn (on right), and just above it is another shot of Navy Leaguers who are watching a semi-automatic seam welding machine used for joining together sections of steel or aluminum.

## HAPPENINGS AROUND NWC

As part of an audit currently being conducted, the Supervisory Committee of the NWC Federal Credit Union has distributed statements of account to all members for the quarter ending June 30, 1974.

Credit Union members who have not received this statement of account by next Wednesday, July 31, should communicate directly with Monroe B. Sorge, chairman of the Supervisory Committee, at P.O. Box 5523, China Lake, CA. 93555.

### Dance Set at CPO Club

Don Kummerman's Good Times Music Band will provide the music for a dance tonight at the Chief Petty Officers' Club, from 9 until 1 a.m.

George Barnard, manager of the club, invites all members and their guests to come early for the special lobster dinner in the restaurant and stay for the dance.

"Barney" also said that members may say farewell to Chief L. A. Devine, the assistant manager for the past two years, who is leaving the Center. Replacing him will be PRC R. L. Davis.

### KofC Plans Sports Night

The Knights of Columbus, Father John Crowley Council No. 3199, is sponsoring a "Sports Night" on Tuesday.

During the evening, a film of the Sugar Bowl game played last Jan. 1 between Alabama and Notre Dame will be shown. Jack Leonard, who is in charge of the entertainment, has invited all residents of the

Indian Wells Valley to come out and get acquainted.

The festivities will begin at 7 p.m. at the KofC Hall, 700 W. Ridgecrest Blvd. There is no admission charge.

### Youth Center Sponsors Dance

What better way to while away a cool summer evening on the desert than at a dance?

In line with this, the NWC Youth Center will sponsor a dance tonight at the Community Center, beginning at 8 o'clock.

The Golden State Music Co. will provide the dance beat until midnight. Youth Center members can gain entrance by paying a 50 cent fee. All others will be charged \$1.

Age groups qualified to attend this dance are 13 years through senior high school. Attention, mothers! Chaperones will be present.

### COM Plans Annual Luau

The Commissioned Officers' Mess will sponsor its annual Luau tomorrow night. A record number of guests is expected to partake of Chef John Appleby's Islander menu and dance to the sounds of a real Hawaiian musical group.

The evening will get under way with a cocktail hour from 6:30 to 7:30, then the buffet dinner will be served. Featured on the menu is roast pig, barbecued spare ribs, Hawaiian chicken, sweet and sour pork, butterfly shrimp, beef shoyu, and plenty of salads and vegetables.



RECEIVES NWC PLAQUE - Rear Admiral R. G. Freeman III, NWC Commander, presented an NWC Plaque to Rear Admiral Francis L. Garrett (l.), Navy Chief of Chaplains, during the distinguished officer's visit last weekend. Chaplain Garrett is the 13th Chief of Navy Chaplains, and was appointed to that post in July 1970. -Photo by Ron Allen