

### Navy League, Coast Guard Auxiliary to hold joint meeting

A joint meeting of the Indian Wells Valley Council of the Navy League and Flotilla 76 of the Coast Guard Auxiliary will be held on Wednesday, April 12, at the Chief Petty Officers' Club.

A social hour starting at 6:30 p.m. will precede dinner, and the featured speaker at this, the first such meeting of these two local groups, will be LCDr. John Ebersole, director of the 11th District of the Coast Guard Auxiliary.

LCDr. Ebersole will present a talk on the Auxiliary, while Loren Kinne Navy League membership chairman, will discuss the goals and activities of the Navy League.

Charter members still residing in the local area will be honored at the IWV Council of the Navy League's 23rd anniversary on April 12.

A buffet-style dinner offering a choice of three meat dishes and several salads will be served at a cost of \$6 per person. Reservations, which are due no later than Sunday, April 9, can be made by calling Diane Murray at NWC ext. 2171 on work days, or Irene Rainey at 377-4276.

### Effective April 1

#### Operating hours of some NEX facilities to change

A change in the hours of operation at some of the facilities operated by the Navy Exchange will go into effect on April 1, Lt. M. S. Barnett, Navy Exchange officer, announced this week.

Beginning on April 1, the NEX main retail store will open at 8:30 a.m. on Saturdays (instead of 10) and remain open until 2 p.m.

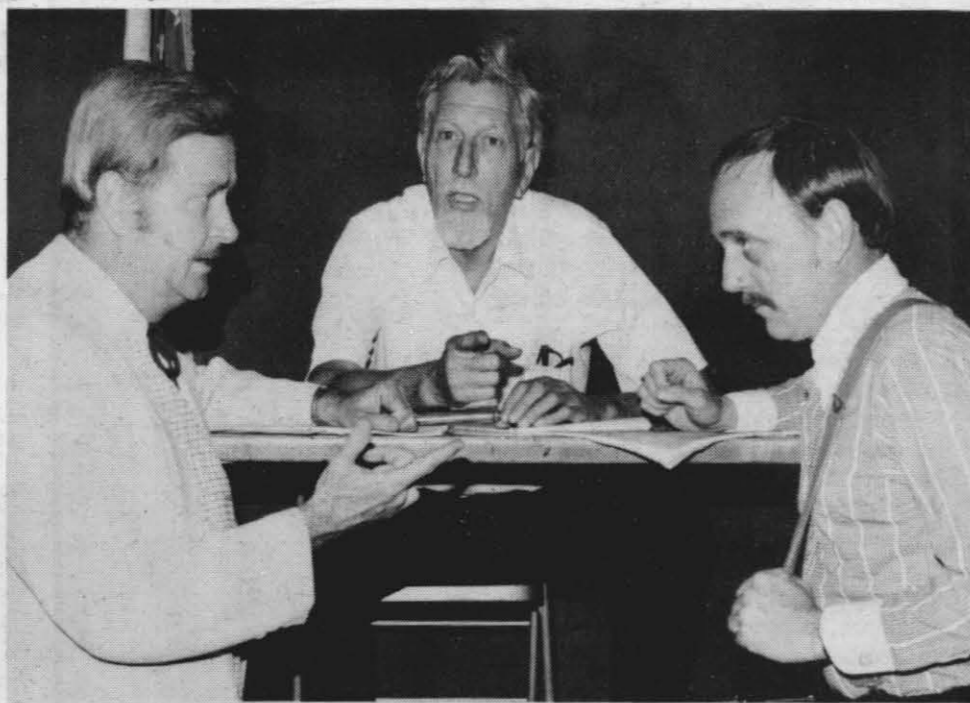
At the Navy Exchange service station, the hours of operation on Saturdays will be from 8:30 a.m. to 2:30 p.m.

In addition, the NEX / Mini-Mart (located between the Training Center and Auto Hobby Shop) will begin operating seven days a week on April 1 and will be open from 11 a.m. to 7 p.m.

At the present time the Mini-Mart is open Monday through Saturday from noon to 8 p.m.



**SEW YOUR OWN FASHIONS**—Displaying four of the more than 60 creations modeled during the recent Spring fashion show held by the Women's Auxiliary of the Commissioned Officers' Mess are (l.-r.) Carol Meyers, wearing a red, white and blue formal that she sewed; Carin Rudeen in a white and yellow Easter dress made by her mother, Ruth Rudeen; Ted Lotie, displaying a cream leisure suit which his wife, Eleanor, made; and Yuko Blair in her own creation of a red casual skirt and blouse. The annual event was held at the COM on March 14. The items of clothing were made by members of the WACOM and were displayed by 20 models. The co-chairmen of this year's event were Eleanor Lotie and Pat Bonner.



**MONKEY TRIAL**—Len Finney (left), as the prosecutor; Gerry Baker (center), the judge; and Bob Pinney, the defense counsel, discuss a point of law in this rehearsal scene from the Community Light Opera and Theater Association production "Inherit the Wind." The play is based on the 1925 Scopes "Monkey Trial" in Dayton, Tenn., in which John Scopes was convicted of teaching the theory of evolution to his high school class, a violation of Tennessee law at the time. The play is the first presentation of the CLOTA's 1978 season and will be staged in the Burroughs High lecture center next Friday and Saturday, March 31 and April 1, and also on April 7 and 8. Tickets may be purchased from members of the cast and at some business places in Ridgecrest. Admission prices are \$4 for adults, \$2 for students and there is a special, at-the-door price of \$1 for children under 12 years of age. Curtain time is 8:15 p.m. for all performances. —Photo by Ken Austerman

### Museum schedules lecture on wildflowers, Death Valley trip

Two springtime events scheduled by the Maturango Museum will take advantage of an excellent wildflower year.

Next Wednesday, March 29, at 7:30 p.m. at Las Flores School, Dr. Robert Berry will talk about desert wildflowers and will show film slides illustrating the variety of these blooms. Then, on Sunday, April 2, interested persons will have an opportunity to see many of these flowers, and also learn about the geology of Death Valley, during a museum-sponsored field trip led by Dr. Pierre St. Amand.

#### Avid Nature Photographer

Dr. Berry, who is in NWC's Aircraft Weapon Control Systems Branch, is the member of the Maturango Museum's board of trustees who is in charge of arranging field trips for the museum. An avid nature photographer, Dr. Berry has accumulated an outstanding collection of wildflower

photo slides and has learned much about local wildflowers through a process of identification in the field.

Wednesday evening's lecture, which will be open to the public, is free of charge and is being presented by the museum as part of a continuing series of community service activities.

#### Trip Open to Public

The field trip to Death Valley, which is also open to the public free of charge, will begin at the NWC main gate at 8 a.m. on Sunday, April 2. Dr. Pierre St. Amand, head of the NWC Earth and Planetary Sciences Division, has arranged the day's itinerary to allow participants to see the most spectacular aspects of the geology of Death Valley.

Field trip participants should bring sack lunches and are asked to notify Carol Panlaqui, museum curator, that they will be going on the outing.

The trip will be made by automobile caravan; participants who would like to carpool are asked to contact Mrs. Panlaqui by calling 446-6900 as soon as possible between the hours of 2 and 5 p.m.

Scheduled stops on the Death Valley trip include Wildrose Canyon, the Death Valley sand dunes, the Death Valley Museum, Zabriski Point, Artists' Drive, and Badwater.

### Extensive menu to be featured at COM 'diners' night'

Tonight is "diners' night" at the Commissioned Officers' Mess. Featured will be an unusually extensive menu selection which includes prime rib of beef, turf and surf, broiled whole lobster, and crab legs and claws in addition to the regular menu. A live band will play from 8 p.m. to midnight for the dancing and listening pleasure of COM patrons.

On Tuesday, which has been dubbed "King Neptune" night, whole giant boiled shell-on crab and cold broiled lobster will be served from 6 to 9 p.m.

Next Thursday night March 30, the COM invites patrons to "enjoy a little of Italy" with all the spaghetti you can eat at \$1.75 per plate for adults and \$1 each for children. Some new Italian entries also will be on the menu between 6 and 9 p.m.

Dance music will also be provided during the dinner hour next Friday, March 31, from 8 to midnight.

## 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  
Regular starting time—7:30 p.m.  
Program subject to change without notice.  
For further information call NWC ext. 2257

FRIDAY 24 MARCH

**"A STAR IS BORN"** (140 Min.)  
Barbara Streisand, Kris Kristofferson  
(Drama) Kristofferson is a rock music star whose career is rapidly nose-diving because of his addiction to booze and pills. He stumbles across Streisand, a singer in an obscure night club, and whisks her off to his next concert. He introduces her on the stage, and she gradually surpasses him in popularity as their romance blossoms. This creates a conflict in their relationship. (R)

SATURDAY 25 MARCH

**"GODSPELL"** (102 Min.)  
Victor Garber, Katie Hanley  
1:30 p.m. Matinee  
(MUSICAL) Modern New York City is the setting for a musical recreation of the Gospel according to St. Matthew by a group of young actors using the mime style. (G)

**"BREAKER, BREAKER"** (85 Min.)

Chuck Norris, George Murdock  
(Drama) The "citizen band" phenomenon is used by truckers in California who become involved with a corrupt and sadistic family that runs a ghost town. (PG)

SUNDAY 26 MARCH

**"SEPTEMBER 30, 1955"** (99 Min.)

Richard Thomas, Susan Tyrell  
(Drama) Richard Thomas is a college student in a small Arkansas town who hears of the death of his idol, James Dean, in a car crash. He finds little sympathy among his friends. Lisa Blout understands and joins him in a heavy drinking picnic intended as a mourning ritual for the actor. They attempt a séance to contact Dean's spirit and, in this ritual, Blout's clothing catches on fire. Thomas pleads for her forgiveness. (PG)

WEDNESDAY 29 MARCH

**"BLACK AND WHITE IN COLOR"** (99 Min.)  
Jacques Dufilho, Catherine Rouvel  
(Comedy) Life in a small French settlement in 1915 Africa is serene. Shopkeeper Jacques Dufilho is content with pretty wife, Catherine Rouvel, until another local resident, surveyor Jacques Spieser, receives a package from home and they discover that France and Germany are at war. The natives are then recruited to attack a small German garrison across the river. Spieser assumes command and prepares them for the battle. (PG)

FRIDAY 31 MARCH

**"THE SENTINEL"** (92 Min.)  
Cristina Raines, Chris Sarandon  
(Horror Drama) Sin and satan return, and the church and the devil battle for possession of the will of a young model played by Cristina Raines. Soon after she moves into an apartment with a spectacular view, she is beset by strange neighbors, strange night sounds, nightmares, stabbing headaches, and fainting spells. (R)

SATURDAY 1 APRIL

**"THE AMAZING MR. BLUNDEN"** (87 Min.)  
Eric Hilly, Reg Lee  
1:30 p.m. Matinee  
(Comedy) Two children, James and Lucy, are visited by a mysterious old man, Mr. Blunden around Christmas time in 1918. He hints about being a ghost and tells the children there is no reason to be frightened of ghosts. He offers their mother a job as caretaker of an empty half-burned-down mansion which is believed to be haunted. (G)

**"JAWS"** (113 Min.)  
Robert Shaw, Roy Schieder  
(Adventure) A summer resort is seized by fear when a white shark is attracted to swimmers. Beaches are closed and economic strangulation threatens the town until three desperate men, a fanatical fisherman, a mild-mannered police chief, and a shark expert set forth to kill the shark. (PG)

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# nwc rocketeer

Naval Weapons Center  
China Lake  
California

March 24, 1978

Vol. XXXIII, No. 12



**TREE PLANTING**—Jeff Grossman "plants" a tree in the styrofoam-like base of the 1:84 scale terrain model used for testing the effectiveness of various types of camouflage of military vehicles. Discoveries made regarding effectiveness of various colors and patterns of paint on vehicles, and of the value of using fender skirts on tanks to disguise their configuration, were recently reported at a NATO working group conference in Germany. —Photo by Ron Allen

### Proposed changes in Federal Civil Service system aired as part of 'Career Day' program

A luncheon talk on changes that are pending in the Federal Civil Service system and a panel presentation by a group of six women who are involved in the apprentice or pre-journeymen programs (or have completed such programs) highlighted the first in a series of day-long Federal Women's Program Committee "Career Day" sessions for 1978 that was held on Wednesday of last week.

Dallin Childs, head of the Personnel Department's Personnel Services Division No. 1, spoke to a group of more than 90 persons who attended the "Career Day" luncheon at the Chief Petty Officers' Club.

There are two separate bills concerned with Civil Service Commission reorgani-

zation and reform, Childs informed his listeners. One bill calls for actually reorganizing the CSC, while the other pertains to regulations.

The CSC reform bill is before Congress at the present time, while the reorganization measure is expected to reach Capital Hill later this month.

The main thrust of the proposed act is to reform Civil Service policies and to improve the management of human resources in the Federal service, Childs said. The speaker emphasized that these are proposed bills that are subject to substantial amendment or possible disapproval by Congress.

As currently written, however, the legislation (among other things) would:

- (1) Improve the procedures for deciding employee appeals and establish a new approach to appraising employee performance that provides less cumbersome procedures for taking corrective action on the basis of poor performance records.
- (2) Permit additional participation by individual agencies in staffing processes, and increase flexibility in hiring decisions.
- (3) Modify veterans' preference to strengthen employment opportunities for disabled vets and also for Vietnam-era veterans, but reduce it for others.
- (4) Establish a comprehensive system for managing and utilizing senior executive personnel.
- (5) Establish an incentive pay plan for managers and supervisors at the GS-13 through GS-15 grade range which relates

### ADAN Randy Atchison selected as Sailor of Month by VX-5

Aviation Machinist's Mate Airman Randy L. Atchison has been singled out as Air Test and Evaluation Squadron Five's Sailor of the Month for February.

The 20-year-old sailor was commended for "outstanding professional performance by significantly contributing to the squadron's overall mission." ADAN Atchison also was cited for his knowledge of

aircraft weapons systems and meticulous attention to detail."

He enlisted under the Navy's guaranteed school program in December 1975, and was graduated from Adams City High School, Denver, Colo., the following May.

Three months later, he entered Boot Camp at the Naval Training Center, San Diego, and completed his recruit training in time to start Aviation Machinist's Mate "A" School at the Naval Air Technical Training Center, Memphis, Tenn.

Next came A6 "Intruder" Planned Readiness Maintenance Training at the Naval Air Station, Oak Harbor, Wash., and then, assignment to the Naval Weapons Center last April.

He was recently selected for two-weeks of temporary recruiting duty in Denver under the Navy's Hometown Area Recruiting Program.

"Only topnotch sailors are selected for HARP duty," Chief Yeoman W. T. Sanland, NWC Military Department administrative assistant, said.

ADAN Atchison was also cited by VX-5 for continuing his education. He is presently attending Cerro Coso Community College and is working towards an Associate of Arts Degree in metal technology.

His wife, Christine, is also from Denver, and they live in quarters aboard the Center.



ADAN Randy L. Atchison

### INSIDE . . .

- Catholic Chaplain To Leave . . . . . 2
- China Laker Commended . . . . . 3
- DCC Annual Dinner Meeting . . . . . 4
- EAP Seminar Set March 29 . . . . . 5
- Sports . . . . . 6
- Museum Plans Springtime Events . . . . . 8

### Effectiveness of various types of camouflage studied by Human Factors Branch

By Mickey Strang  
A couple of years ago, Naval Weapons Center personnel passing Old Dorm 4 on Blandy Avenue were puzzled to see a man sitting and staring at rocks laid out apparently at random on the ground. Occasionally he would pick up and examine the rocks, or move them to another spot. And sometimes eyes were seen peering out from the windows of the dorm, also gazing at the display.

This wasn't a case of the heat and isolation finally getting to some Centerites, but a highly practical study of visual acuity and camouflage that was being conducted by the Human Factors Branch (Code 3175) of the Systems Development Department.

Much of the work of the Human Factors Branch since its inception on the Center has been concerned with studies of vision and its

impact on weapons effectiveness. In fact, the first formal "human factors" work at China Lake began in 1966 when Ron Erickson was directed to study the field of view of the television guidance system of the Condor missile and its implications in target acquisition. Obviously, how well such television guidance works is determined by what can be seen by the crewmen of the launching aircraft, and how well they can determine the trajectory of the missile and its maneuverability.

Erickson's work with Condor led to the formation of the Human Factors Branch (of which he is still the head), and a member of the branch was on the Condor contract-monitoring team. The work done on Condor consisted both of paper studies and laboratory experiments on the evaluation



**"FLYING"** — Dan Wagner "flies" a simulated mission in a cockpit set up in the Human Factors Branch. Work with target acquisition, television displays, and color coding in aircraft cockpits has formed an important part of the work of the branch since its inception.

and specifications for airborne television displays.

The role of human factors began to be recognized during World War II. In Britain it is known by the term "ergonomics." (It has also been called human engineering, biomechanics, biotechnology, man-machine technology, and applied psychophysics, among other terms.)

#### Role of Human Factors

The highly sophisticated weapons systems of today call for human factors to determine that the man-machine interaction considers the limitations of both. Humans cannot be readily re-designed, but their machines, their tools, their environment can.

Human factors technology includes the study of just how a person's job and his tools (including his own capabilities and limitations) affect his ability to do a job. The result of this investigation can then be used to design the job and the tools in such a way that the requirements of the job can be met.

Target acquisition has formed an important part of the work of the Human Factors Branch since its inception. Erickson himself has been the chairman of the triservice Target Acquisition Working Group for six years. This group has studied



Dallin Childs

pay increases to the quality of their performance. Also a part of the proposed change is the creation of an Executive Management Service for managerial positions currently at the GS-16 level and above of which 85 per cent will be career and 15 per cent non-career Civil Service employees.

The reasons they decided to get into the Wage Grade (WG) rather than the General Service (GS) area, and the benefits of

(Continued on Page 4)

(Continued on Page 3)

# Easter Services

Following is the schedule of Catholic and Protestant services during the remaining portion of Holy Week, beginning today and ending on Easter Sunday. All services will be held in the Main Chapel, unless otherwise noted.

**PROTESTANT CONGREGATION**  
 Easter Sunday, March 26 — Service at 10:15 a.m. Sermon topic, "Resurrection Power" by Chaplain Frederick E. Whitaker  
**CATHOLIC CONGREGATION**  
 Good Friday, March 24 — Traditional Catholic Service, 4:45 p.m. Holy Communion to be distributed.  
 Holy Saturday, March 25 — Easter Vigil, 5 p.m.  
 Easter Sunday, March 26 — Masses at 7, 8:30 and 11:30 a.m.

**A HAPPY EASTER TO ALL**

## Enrollment open for training courses in rework, repair of electronic assemblies

Applications are presently being accepted for enrollment in training courses on the latest techniques of rework and repair of electronic assemblies.

The classes will be held at the Naval Weapons Center's Avionic Module Repair Improvement Program facility, 75 Parsons, Rm. 102.

## New books listed at NWC library

A complete list of new books is available in the NWC library. Library hours are: Monday thru Friday: 1-9 p.m.; Saturday & Sunday: 12-4 p.m.

Centerites are reminded that all employees or military personnel, regardless of their place of residence, are welcome to use the NWC library.

### FICTION

Clive Cussler — Raise the Titanic.  
 Nicholas Freeling — Gadget.  
 Richard Kluber — Members of the Tribe.  
 Felice Picano — The Mesmerist.  
 Patricia White — Journey into Fire.

### NON-FICTION

Logan M. Cheek — Zero-Base Budgeting Comes of Age.  
 William R. Corson — The Armies of Ignorance: The Rise of the American Intelligence Empire.  
 James F. Fixx — The Complete Book of Running.  
 D'Arcy O'Connor — The Money Pit — The Story of Oak Island and the World's Greatest Treasure Hunt.  
 Louise B. Young — Earth's Aura.

There are two courses which are intended for persons who are actually involved in the assembly, rework, modification or repair of electronic assemblies. They will be taught by Bill Sake and John Robertson.

The first course, which is a prerequisite for the second, is entitled "Electronic Assembly Repair," will begin April 24 and run until May 12.

The second course, "Advanced Electronic Assembly Repair," starts May 22 and ends June 2.

Employees who are interested in attending these classes should submit a training request and authorization form via proper channels in time for it to reach Code 3663 at least seven days prior to the starting date of each class.

Persons interested in attending these classes should contact Bill Sake by calling NWC ext. 3491, for further information, including the fees that are charged.

## Class set on subject of Jewish mysticism

The All Faith Chapel's Hebrew Congregation will sponsor a class on Jewish mysticism tomorrow at 7:30 p.m. in Chapel Annex No. 4.

Student Rabbi Sol Goodman will conduct the class, which will include a discussion of Kabbalah, Jewish mystic views on reincarnation, life after death, numbers and their relation to Judaism.

Gate pass arrangements have been made for persons needing them in order to attend this class.

## 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 992, Ext. 2069. 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 096 or 097). 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 supervisor 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. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

**Safety Specialist, GS-081-7, PD No. 7824000 or 7824001, Code 245** — This position is that of safety specialist located in the Explosives and Laboratory Safety Division of the Safety and Security Department. The GS-7 level is a trainee position. At the GS-9 level, the incumbent is responsible for developing the safety program in his area. He will assist managers in the formation and guidance of safety committees. He will assist managers by conducting safety surveys of their respective shops in order to eliminate hazardous conditions, recommend the necessary corrective action, and determine the need for new program development. He will prepare safety education material for the organizations he serves. **Job Relevant Criteria:** Knowledge of safety principles; knowledge of the techniques of accident prevention; knowledge in the area of chemistry or physics acquired through academic course work; ability to write clear and concise reports. **Promotion potential:** GS-12. Previous applicants will be considered without reapplying. Applications will be accepted from both NWC employees and status eligibles.

**Clerk (DMT), GS-301-3/4, PD No. 7235218N, Code 3522** — This position is that of clerk (DMT) located in the Advanced Technology Branch, RF Development Division of the Electronic Warfare Department. The incumbent will type from dictating machine, rough draft or handwritten copy all types of letters, charts, memoranda, official correspondence, reports and forms. Secondary duties will include answering phones, placing and receiving long distance calls, receiving visitors, arranging for travel, keeping timecards, sorting and distributing mail, and other office duties. **Job Relevant Criteria:** Ability to type accurately and efficiently; knowledge of Navy correspondence regulations and format; ability to work independently; observed ability to be tactful and courteous. **Knowledge of engineering terminology.** Applications will be accepted from both NWC employees and status eligibles.

**File applications for the above with Charlotte Siewkowski, Bldg. 34, Rm. 208, Ph. 3118.**

**Management Analyst, GS-343-12, PD No. 7908013N, Code 3522**

**081** — This position is located in the Weapons Systems Cost Analysis Division, Office of Finance and Management. Incumbent designs and conducts cost and economic studies for all levels of technical management; develops a consistent data base through analysis of cost and performance data for a variety of systems; develops system estimates with documentation of data sources, cost methods or techniques; presents findings to management. **Job Relevant Criteria:** Knowledge of mathematical/statistical and/or economic analysis techniques; knowledge of life cycle cost analysis; management analysis, budgeting, and/or programming functions.

**Budget Technician, GS-501-6, PD No. 7808012N, Code 0833** — This position is physically located in the Aircraft Department Staff Office. The incumbent provides on-site budgetary/financial staff expertise prepares or assists in preparing budgets; reviews expenditures; uses financial reports to recognize potential problems; prepares status reports on Aircraft Service Center; reviews financial status reports prepared within department. **Job Relevant Criteria:** Knowledge of Center and T&E policies as related to budgetary and fiscal area; knowledge of double entry accrual accounting principles and techniques; ability to work independently; and ability to work well with others. **Promotion potential:** GS-7.

**File applications with Tina Rockdale, Bldg. 34, Rm. 206, Ph. 2676.**

**Mechanical Engineer, GS-830-9/11, PD No. 7832012, Code 3267** — Promotion potential to GS-12. This position is located in the Terrain Denial Weapons Branch, Conventional Weapons Division, Ordnance Systems Department. The incumbent is assigned to a team responsible for the development of dispenser equipment for air-delivered land mines. Duties include the design and development of mechanical and electro-mechanical components, including literature search, conceptual layout on drawing boards, production engineering, and cost-effective design studies. **Conduct feasibility studies on novel design concepts, arranges for fabrication and experimental testing, and analyzes test data. Prepares project schedules, development plans, and budget estimates.** **Job Relevant Criteria:** Knowledge of electronics interface with mechanical design; skill in interpersonal relationships (reconciling differences, fostering cooperation); demonstrated ability to plan and coordinate long range engineering tasks; ability to communicate correctly and concisely, both orally and in writing.

**Physicist, GS-1310/Mechanical Engineer, GS-830, GS-9/11/12, PD No. 7545107-1/PD No. 7832015, Code 3262** — (interdisciplinary position.) This position is located in the Explosives Technology Branch, Conventional Weapons Division, Ordnance Systems Department. Incumbent plans and carries out experiments to determine possible applications of explosive materials to branch projects. Evaluates effectiveness of explosive materials and components in support of a variety of Navy weapon systems. **(Continued on Page 5)**

**Chaplain Wambach to leave soon for duty in Florida**

After 34 months as Catholic chaplain at the Naval Weapons Center's All Faith Chapel, Lt. Joseph Wambach ChC, USN, has received orders transferring him to the Atlantic Fleet's Religious Support Activity at Mayport, Fla.

He will leave next month following the arrival of his relief, Lt. Cdr. Joseph P. Johnson, ChC, USN.

Chaplain Wambach said that the Fleet Religious Support Activity is staffed with "circuit-riding" chaplains who are temporarily assigned to small combatant and large support ships of the Atlantic Fleet.

Chaplain Johnson is reporting from the Naval Communications Station, Guam, Chaplain Wambach said.

Chaplain Wambach, who is the Center's only Catholic chaplain, reported here in 1975 following a 15-month tour of duty at the Navy Regional Medical Center on Guam.

He is a native of Englewood, N.J., but was raised in Phoenix, Ariz., where he attended school before entering the seminary at Catholic University of America in Washington, D.C.



Lt. Joseph Wambach

## Signups for Pony League baseball teams continue

Signups and tryouts for the 1978 Indian Wells Valley Pony League baseball season will continue tomorrow from 8:30 a.m. until noon at the Pony League ball field on the Center.

A sufficient number of players (including one girl) have registered to insure that four teams can be formed, but league officials hope that enough additional youngsters will be interested in playing in order that one or two more teams can be organized.

Players must be 13 or 14 years old by July 31, and girls are welcome. Registrants are requested to bring proof of age and a \$20 registration fee.

After a short practice period, league play will begin on either April 17 or 24, and there will be a playoff for the championship at the end of June.

Youths 15 through 17 years of age are invited to sign up as an indication of their interest in forming a Colt League baseball team or in order to assist with the Pony League program.

## Burros lose...

(Continued from Page 6)

through with a solid single that earned him two RBIs and gave the Burros a 6-4 lead.

The locals then added one more run in the sixth inning for insurance as they notched up a 7-4 victory. Terry Gaunt, the winning pitcher for Burroughs, went the distance on the mound. He allowed just five hits while striking out seven and walking two.

In game No. 2 of Saturday's double-header against East High, the visitors were kept in check by Kevin Kummerman, pitcher for BHS, who gave up just one run each in the third and fourth innings, which the Burros matched with two tallies of their own in the bottom of the fourth to make it a 2-2 ball game at that point.

In the fifth frame, however, the Blades knocked Kummerman, a pitcher brought up from the junior varsity, out of the box as they tallied five times—enough to insure the victory by a final score of 7 to 3 after the Burros tallied one more time on a hit by Gritton in the last half of the seventh and final inning.

The Burros, who competed in the annual Easter vacation week baseball tournament at Delano, were eliminated as the result of consecutive losses on Monday to Tulare High School by a score of 4-2, and a 5-1 defeat at the hands of North High of Bakersfield.

## Interest runs high in youth soccer program

This year has seen the largest turnout on record for NWC Youth Center soccer with 105 youngsters signed up and their skill evaluated.

Eight teams have been formed and league play will begin April 1. Formal practice is scheduled to begin Monday with informal practice set for tomorrow at Davidove Field.

Tomorrow's practice sessions will start at 9 a.m. for grades five, six and seven, and players in grades one through four will assemble at 10:30 a.m.

There are still 13 openings on teams made up of players in the 3th through 7th grades and 11 vacancies on teams composed of 1st through 4th graders.

Persons desiring more information about the Youth Center Soccer League and youngsters desiring to sign up for play should call Carol Hape, the Youth Center director, at NWC ext. 2909.

## Rec. Round-up...

(Continued from Page 6)

April 3 to 7 at NAS, Miramar, starting at 10 a.m. each day, while the table tennis competition will take place at the Naval Station, San Diego, from April 17 through 21.

The track and field championship will be hosted by the Naval Station, San Diego, on April 12 and 13.

## Employee in the spotlight

"Life is a series of challenges. To perform our best, we must have challenges," and they must be "spiritual as well as physical," according to this week's Employee in the Spotlight, Dr. Nicholas Bottka.

And, Nick's life style reflects that philosophy—in his work and his off-duty interests.

As a research physicist in the Quantum Optics and Semiconductor Branch of the Research Department's Physics Division, he creates new materials not found in nature. Off the job, one of his pursuits is mountain climbing.

Nick says that his occupation in research and the avocation of mountaineering satisfy his need to be confronted with challenges which are, at once, physical, spiritual and intellectual.

"Mountaineering is the epitome of overcoming challenges... There is a beauty to it... It is a very personal thing to me," Nick says.

When a person conquers a mountain, he not only conquers nature but himself as well, in Nick's opinion.

"It means pushing our body to its limit of physical endurance... We should push ourselves to that limit occasionally. 'Mountaineering is a means of overcoming fear,' and that's 'an important aspect of life,'" Nick believes.

He has climbed many mountains in different parts of the world including: three of Mexico's highest volcanoes—Ixta, Orizaba and Popocatepetl; Mt. Whitney—"all of its faces at least twice;" and Mt. Blanc—the



Dr. Nicholas Bottka

highest mountain in the French Alps—all by himself!

"I did what some considered foolish and 'soloed' (Mt. Blanc). I had no choice... I wanted to climb it... There was no one around to go with me; so, I went by myself."

Nick, 39, learned early in life the necessity of staring a challenge square in the face and overcoming it.

A native of Hungary, he fled that country to Germany with his parents when he was 5 years old in 1944 to escape the Russian

occupation. In Germany, he learned to speak German and Ukrainian in addition to his native Hungarian.

In 1949 the family moved to Venezuela, where Nick acquired fluency in Spanish, and came to the United States in 1956. He was graduated from the University of California at Los Angeles (UCLA) with a BS in 1963 and began work at the Naval Weapons Center in June of that year.

After returning to UCLA under a Naval Ordnance Test Station fellowship and acquiring an MS degree, he won a Rotary International fellowship to West Germany's University of Goettingen and then attended the University of Berlin in West Berlin as an Alexander von Humboldt fellow.

"The purpose of Rotary International is to foster international understanding," Nick says; so, he did his part in that effort by meeting and marrying his wife, Lisa, in Germany while studying there for his Ph.D. in solid state physics.

They have two children; an 8-year-old son, Hary, and a daughter, Renee, 8.

### Family Comes First

"My family comes first, but next, my job is the most important thing in my life," Nick says.

He loves his work at the Center and talks enthusiastically about what his division is doing to advance solid state technology and electronic micro-miniaturization.

Nick said he believes that the root of all technology is the development of materials which make technological advances possible.

Instead of adapting technology to materials that exist in nature, Nick and his colleagues are creating new solids with optical and electrical properties tailored to the needs of the future.

He enjoys classical music and literature and relates these interests to his work also.

"Research is a form of artistic expression... always pushing ahead the frontiers of knowledge. But, research for research sake is not enough. We must do more. We must live with the realization that research and technology feed on each other."

### Research, Technology Co-exist

"They don't exist on their own. They coexist."

He says that here at the Center, the opportunities to foster that co-existence are unique.

"There are very few places where a person can develop along his own lines and according to his own inclinations," and for the past 15 years, the Navy "has let me do my own thing," he says.

Whether it is in the Sierra Nevadas or in a Naval Weapons Center laboratory, Dr. Nicholas Bottka's "thing" is climbing mountains!

## Forms available at Hobby Shop to enter photography contest

Entry forms can be obtained at the Naval Weapons Center's Hobby Shop complex by military personnel or civilian employees of NWC and their dependents who are interested in entering their photographic work in a contest sponsored by the Special Services Division.

There is an entry fee of \$1 per category for this contest, which is being held in conjunction with the National Industrial Recreation Association.

Entries are limited to one black and white print, one film slide and one color print per person, and the competition will be divided into the general categories of scenic views, nature, human interest and an open class.

There is no time period within which the photos must have been taken, but the contest is restricted to amateur photographers. The original photo exposure must be the work of the entrant, but it may be commercially processed and mounted.

Photos along with the entry fee must be received at the Hobby Shop by the contest deadline of April 21. Additional information can be obtained by calling Mike Kinne after 2 p.m. at NWC ext. 3252.



**WOMEN' WATER EXERCISE CLASS** — Another five-week session of the water exercise class for women will begin on Monday, March 27, at the NWC gymnasium's indoor swimming pool. Various types of flotation devices are used to improve upon the results of the ballet type and aerobic exercises that are taught by Nancy Branch. There is a \$10 fee for the classes, which will be held on Monday and Wednesday from 3:30 to 4:30 p.m. through April 27. Registration is being handled at the gym office, phone NWC ext. 2334. Shown above are four of the members of a women's water exercise class that is currently underway. They are (l.-r.) Edna Kellogg, Phyllis Wise, Jo Ann Woodman and Ramona Reuter. Mrs. Branch has taught similar classes here for the past 2½ years. Before that she was an instructor at the YMCA in Hanford, Calif., and (while in college) assisted in a study to show how children's muscular development can be aided by water exercises.

## The Rocketeer

Official Weekly Publication  
 Naval Weapons Center  
 China Lake, California

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**DEADLINES**

News Stories Tuesday, 4:30 p.m.  
 Photographs Tuesday, 11:30 a.m.  
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**Phones** 3354, 3355, 2347

## China Lakers win '78 MDISL volleyball championship

For the second year in a row, the Naval Weapons Center's entry in the Mojave Desert Inter-service League's volleyball tournament returned home with the championship trophy, following competition held last weekend at George Air Force Base in Victorville.

The China Lakers won 14 out of 16 games in this round robin event. Second and third place honors in volleyball went to the Los Angeles Air Force Station and March Air Force Base teams.

Mainstays of the NWC volleyball team were Jerry Kissick, player-coach, Jim Bevan, Ted Bailey, Duane Fojt, Bill Bowen and Bob Berry.

The NWC team's six regulars were augmented by Jim Morrow, Claude Gumz, Lyle Parthemer, Jimmy Clark, Jim Awai, Mike Morrow and Cindy Fox.

"It takes a real team effort to win at volleyball," Kissick commented, and during the MDISL tourney "everyone played well," the player-coach added.

Especially noteworthy, Kissick continued, was the performance turned in by Berry, who was the NWC team's top "spiker" from the front line, was one of the China Lakers' top passers when it came to returning serves, and did a fine job filling in the middle of the back row of players on defense.

When Berry was on the front line in a position to spike the ball over the net, other teams began using all three of their front row players in an attempt to block Berry's hard drives, Kissick said.

In the round robin MDISL volley tourney, each team played two games against all of the other entrants, and the tournament title was won by the team with the most wins.

## Burros baseballers suffer 2nd straight Golden League loss

Indications of tough sledding ahead for the Burroughs High School varsity baseball team during the 1978 Golden League season were borne out here last Friday, when the Burros lost to the visitors from Palmdale High by a score of 7-1.

After their second straight defeat in league play, the BHS varsity squad split a non-league double-header on Saturday by winning the first game, 7-4, and losing the second contest, 7-3, to the visitors from East High in Bakersfield.

Players on the local high school varsity nine haven't shown any power at the plate in their first two Golden League games, during which they have been outsourced 19 to 1 and have just four hits to their credit.

### Shutout Averted

Sadler, the starting pitcher for the Palmdale Falcons, limited the locals to one hit apiece last Friday by Frank Mayer, Mark Gritton and David Cane, and the Burros were trailing, 6-0, before they averted a second straight Golden League shutout by scoring a single run in the bottom of the sixth frame. The Palmdale Falcons came back with another run in the top of the seventh to increase their winning margin to 7-1.

The Falcons got off to a 2 to 0 lead in the 3rd inning, and then began hitting the ball solidly during a sixth-inning outburst that netted them four more runs which clinched the victory.

### Non-League Game Won

On Saturday, the Burros picked up their second non-league victory of the season at the expense of the East High Blades in the first game of the twin bill. The locals, who were trailing 4 to 2 at the time, put their scoring act together in the bottom of the fifth inning when they tallied four runs.

The rally which produced the game-winning runs was started off with a single by Jim Peck, who advanced to second base on a balk by the East High pitcher. Clay McClain drew a walk and a single by David Cane loaded the bases.

Peck then scored on an error on a ground ball hit by David Boss and another walk forced in McClain. With two runs in and the bases still loaded, Bill Bradberry came

(Continued on Page 7)

overall.

The China Lakers lost one game each to the Los Angeles Air Force (15-13) and to the March Air Force Base volleyballs (15-11), but in each case won the second game against these teams by identical scores of 15 to 7.

In other tournament action, the NWC volleyball squad rang up the following string of victories: 15-8 and 15-2 over the Marine Corps Base at 29 Palms; 15-13 and 15-12 over Norton AFB; 15-4 and 15-2 over

Edwards AFB; 15-6 and 15-7 over the Marine Corps Supply Center at Barstow; 15-11 and 15-5 over the host team from George AFB; and 15-6 and 15-6 over Nellis AFB.

By winning the volleyball tournament, NWC has moved into a first place tie in the 1978 MDISL standings with Edwards AFB. Both activities have 16 points, while Norton AFB and the Los Angeles Air Force Station are tied for second with 14, and Nellis and March AFBs are in a third place tie with 12 points each.



MDISL VOLLEYBALL CHAMPS—Members of the Naval Weapons Center team entered in last weekend's Mojave Desert Interservice League volleyball tournament display the team and individual trophies which they earned for their efforts. The players are (kneeling, from left) Jim Bevan, Jim Awai, Mike Morrow, Lyle Parthemer and Robert Clark. Standing are (l.-r.) Duane Fojt, Cindy Fox, Jerry Kissick, Phil Bowen, Bob Berry and Ted Bailey. One member of the team, Claude Gumz, was unable to be present for the photo.

## Field of 52 contestants takes part in Over-the-Hill Track Club's 3-mile run

A group of 52 local runners, ranging from 5 to 58 years of age, took part in the Over-the-Hill Track Club's three mile run which was held last Saturday.

The course for this event began at the Cerro Coso Community College parking lot and followed hilly, dirt roads in the vicinity of the college before finishing back at the starting point. Medals were awarded to those who placed first, second and third in each age group, and everyone who finished the race received a certificate.

Frank Freyre, a 38-year-old runner who entered the 15 to 29-year-old age bracket in search of stiffer competition in the race, was the first contestant to cross the finish line. His winning time was 16 min., 43 sec. Second place overall was John Emerson, who was clocked at 17:40 as he topped all contenders in the 30 to 39-year-old age group, while third place went to Paul Storey, a runner in the 15 to 29-year-old group, whose time was 18:08.

### Other Winners

Winners in the other age brackets of the competition were Scotty Broyles, 40 to 49-years-old, who was fourth overall in the time of 18:15; Dick Wisdom, in the over 50 age group, and Andy Haaland, who was the first runner in the 14 years of age and under category to finish the race.

In the women's division, winners in the various age groups were Andrea Veatch, 19 yrs. of age and under; Lee Ann Keck, 20 to 29-year-old age group, and Jerry Mumford, in the 30 years of age and over age bracket.

In the novice class for women joggers with limited racing experience, Anne Teppo and Sandra McIntire were the winners in the 30-years-and-over and 29-years-and-under age categories, respectively, while Barrie Ridoch also received a medal for his first place finish in the novice competition for men over 30 years of age.

The OTHTC's next race will be held at the Desert Empire Fairgrounds in Ridgecrest on April 22 as a part of the High Desert

Extravanga—an event sponsored by the Ridgecrest Chamber of Commerce. This will be a five mile run open to both experienced and novice distance runners who will compete in various age groups.

OTHTC members also are planning to form teams to enter the annual 24-hour relay race at Victorville on June 17 and 18. Anyone interested in participating in this event is asked to contact Scotty Broyles by calling 446-2941.

## Battle for Premier League lead narrows down to two teams

A three game sweep by the league leading Raytheon Sidewinders over the third place Saddleback Sales squad had the effect Monday night of turning the battle for the Premier League title into two team monopoly.

The Fisher Plastering keglers, who are in second place but still trailing the Sidewinders by 5½ games, also shut out their opponents 3-0, while the Elks Lodge team's grip on third place was loosened a bit by the Ace Realty squad, which also handed them a 3-0 loss.

High team game for the night was the 991 registered by the Fisher Plastering team. The Raytheon Sidewinders came through with the evening's high team series—a total of 2,919.

Art Karrer had a hot hand as he rolled a 705 series which included a single game score of 277. Others over the 600 series mark and their scores were: Chuck Albright (655), Jim Wright (633), Chuck Cutsinger (629), Bill Esch (626) and Wayne Baumbach (619). Albright's 655 series included three games over the 200 mark—201, 248 and 206.

In addition to Albright, Premier League bowlers with single game scores of more than 220 were Karrer (277 and 234), Cutsinger and Esch (224), and Wright (221).



Recreation Round-up

## Parents invited to attend meeting on athletics for youth

A meeting will be held at 7 p.m. Monday at the Community Center for the purpose of discussing recreation and athletic programs that are available for young people at China Lake.

Anyone who is now involved in youth programs on the Center is encouraged to attend, as are all parents who are interested in improving such programs.

Attention will be focused on the activities now being provided, what other needs should be met, and the overall direction of the youth program within the Special Services Division.

### Softball League Meetings

A series of meetings will be held during the week of April 3 to make plans for the start of the China Lake Intramural League softball season. All of the meetings will be held at the Community Center, and will begin at 5 p.m. each day.

The meetings that have been scheduled are: Slow pitch division, April 3; fast pitch division, April 4; women's division, April 5, and recreation division, April 6.

### 11th ND Athletic Events

Information is available at the Naval Weapons Center gym, phone ext. 2334, for active duty military personnel who are interested in participating in the 11th Naval District handball championship tournament, the men's and women's table tennis tourney, and the district's track and field championship.

The handball tourney will be held from (Continued on Page 7)

## Commander's Cup golf tournament results announced

A total of 62 golfers vied last weekend in the annual Commander's Cup golf tournament held at the China Lake golf course.

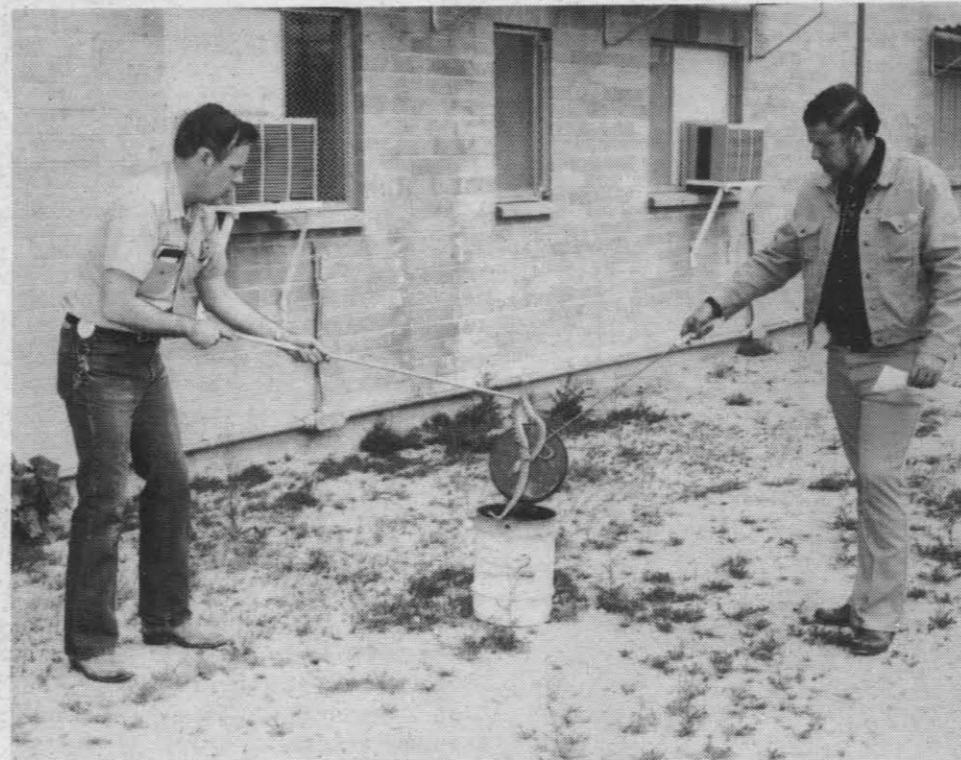
Two entrants, both from the 11 to 16-handicap group in this individual medal play tourney, emerged as the leaders after two 18-hole rounds. Richard Rusciolli and William Lawson tied with net scores of 136, but Lawson quickly decided the issue by scoring a birdie (one under par) on the first hole of the play-off held to determine the tournament winner.

Players were placed in one of three flights, based on handicaps of 10 and under, 11 to 16, and 17 and over for the Commander's Cup tourney.

There also was a tie for overall low gross honors between Bill Wright and Earle Roby, who finished with scores of 156 each. On the first play-off hole, Wright also came through with a birdie to defeat Roby.

Winners, based on their net scores in each of the flights of the tournament, were: R. G. S. Sewell, 138, in the 10 and under handicap flight; Rusciolli, 136, in the 11 to 16 handicap flight; and E. G. Stevens, 137, in the flight for golfers with handicaps of more than 16.

Other winners of gifts certificates good for redemption at the golf course pro shop were: Roby and Al Ingwersen in the 10 and under handicap flight; Robert Beck, Hiram Moore, Frank St. George, Robert Borgos and Roland Baker in the 11 through 16 handicap flight; and M. W. Claunch, T. L. Jones and Randy Eady, among the golfers who competed in the 17 and over handicap flight.



EASY DOES IT—Using snares or "snake loops," John Robertson (at left) and Bill Sake lower a Mojave green rattlesnake into a lockable drum used for completely safe storage of the reptile. This particular snake was captured Monday in the Inyokern area. It is destined for the University of Southern California Medical Center where the venom from its fangs will be used in producing the type of antivenin needed to treat snakebite victims. —Photo by Ron Allen

## Heading out into desert to look for wildflowers? Be alert for snakes

Local area residents or visitors who are attracted to off-road sites in the desert by the prospect of getting a closer look at wildflowers that are now beginning to put in an appearance are reminded to be on the lookout as well for sidewinders or rattlesnakes—particularly the Mojave green rattlesnake.

Bill Sake and John Robertson, two members of a local team that has been formed to capture live Mojave green rattlesnakes in order that their venom can be extracted and used to produce an antivenin for treating snakebite victims, report that six of the Mojave greens were captured last week and another one this past Monday.

One of the Mojave greens, a reptile that is considered to be one of the most poisonous snakes in the United States, because its venom affects the nerve system of its victims, was picked up not far from the anechoic chamber on the Naval Weapons Center, while another one brought in Monday was captured at a ranch three miles north of Inyokern on the east side of Brown Rd.

Sake and Robertson, electronics technicians involved in the Avionic Module Repair Improvement Program (AMRIP), are on call with other members of the Mojave Green Rattlesnake Antivenin Project to respond to calls when snakes are seen and have been isolated to a specific enough location to make it highly probable they can be found and captured alive.

Once captured, they are transported off Center to Mike Robertson in Ridgecrest, who has facilities for storing them alive until they can be shipped to Dr. Findlay E. Russell at the University of Southern

## Pre-retirement planning seminar to begin April 12

Naval Weapons Center employees interested in attending a pre-retirement planning seminar that will begin on Wednesday, April 12, have until April 7 to submit a training request and authorization form to Code 094.

The seminar is open to both employees and their spouses, and is intended for those who are planning to retire within the next five years. Subjects to be covered will include federal income tax regulations, the Civil Service Retirement System, Social Security and Medicare, legal matters, health maintenance and the psychological aspects of retirement.

The seminar will consist of five sessions each 1½ hours in duration and an all-day workshop. Additional information can be obtained by calling Nancy Cleland at NWC ext. 2018.

## Effectiveness of camouflage studied...

(Continued from Page 1)

target acquisition by forward air controllers, camouflage, search by flare light, terrain masking, and mathematical modeling. About a fifth of the support of Code 3175 operations still comes from the joint working group.

Army projects conducted by the branch have included such studies as how visual acuity affects the performance of tank commanders in the field.

Much of the work of the Human Factors Branch has been conducted under the sponsorship of the Naval Air Systems Command. Involved in this have been television displays, target acquisition, color coding displays in cockpits, and computer aided decision making. (Tasks and avionics are getting so complicated for a pilot that he can use the assistance of a computer in making target classification decisions; a computer could be programmed to list the decisions made in the past and their outcomes so that the pilot could decide which would be the best decision for him to make in a similar situation.)

Target Acquisition Studied  
Target acquisition with the aid of forward looking infrared (FLIR) has also been studied both through mathematical modeling and monitoring of flight tests.

Work done in support of Naval Weapons Center programs has been varied. For instance, Ron Erickson and Judy Lind are on the Navy's F-18 human factors team working on weapons control and display requirements for the new aircraft. They help monitor a contract held by the McDonnell Co. dealing with cockpit layout and design for the aircraft.

Two branch members are currently working with the Harpoon imaging infrared personnel to determine field of view and search tactics.

Automatic target classification work involving the ability of operators to identify ships using radar range profile information and automatic classifier information also figures heavily in work currently in progress, using applications of decision theory.

Despite the range of projects, branch size has always been small, with the maximum strength of the branch at any one time

having been eight employees. Currently the branch is composed of an engineer (Erickson), a mathematician (Carol Burge), three psychologists (Mike Barnes, Dan Wagner, and Jeff Grossman), and a psychological aide (Judy Lind).

Hugh Whitehurst, also a psychologist, currently is on education leave without pay studying human factors engineering at Cal State Northridge. In the past the group also included a physicist and another engineer.

Erickson was recently the chairman of the triservice committee to write the Human Factors section of the Technical Coordinating Paper for Training and Personnel Technology for DDR&E. This task developed a structure and described all the human factors work in the services funded by DDR&E.

## All hands reminded of need to drive with care on Center

Operating a motor vehicle on the Naval Weapons Center is a privilege. All hands, military and civilian, are reminded that continuation of their driving privilege is dependent on the safe and legal operation by the individual driver.

In particular, this means observing established speed limits, obeying traffic regulations, and driving with care to insure the safety of all.

Personnel are also reminded that the above applies when operating government vehicles or equipment both on and off the Center. Failure to observe the posted speed limits or operating the vehicle in an unsafe manner for conditions can result in termination of the individual's operating privileges.

In some cases, this will have a direct bearing on the individual's job because he may not be able to perform the duties of his position.

Abuse, negligent, or willful misuse of government vehicles or equipment will not be tolerated and is a firm foundation for appropriate disciplinary action against the offending individual.

Take care when you drive.

## CONSERVE ENERGY

ENERGY "HOT TIP"—In this area, heating of domestic hot water uses almost half of the annual household natural gas consumption. By reducing hot water temperature to 120 degrees, using cold water for washing clothes, taking showers instead of baths, insulating hot water tanks, extinguishing the pilot flame while on vacation—savings in excess of \$75 per year will be realized. Call the Energy Answer Man at NWC ext. 3741 for solutions to your household energy problems.

## China Laker commended for contribution to NFOIO

A letter of appreciation acknowledging his "significant contribution to the U.S. Navy's appreciation of Soviet naval tactics and doctrine" has been received by John Webb, an operations analyst in the Weapons Planning Group.

Webb, who is currently working on the Vertical Short Takeoff and Landing Operational Concepts Study, is one of three Weapons Planning Group personnel who have been assigned at different times to the Navy Field Operational Intelligence Office (NFOIO) at Fort Meade, Maryland.

According to Capt. G. B. Pressly, Commanding Officer of NFOIO, his command's special intelligence study, entitled "Tactical Implications of Soviet Air-to-Surface Missile Exercises" was distributed recently to Webb. It was, Capt. Pressly wrote to Webb, "the product of your original research, analysis and well-written findings, and represents a major refinement to the understanding of this subject area."

The results of Webb's work, it was also noted in the letter of appreciation from Capt. Pressly, "is strong encouragement for future joint analytical efforts involving the Naval Weapons Center and NFOIO. Your extensive background and analytical

expertise have been of great value to NFOIO," it was added.

Webb, who spent seven months at Fort Meade, explained that the NFOIO is different than many similar groups since its

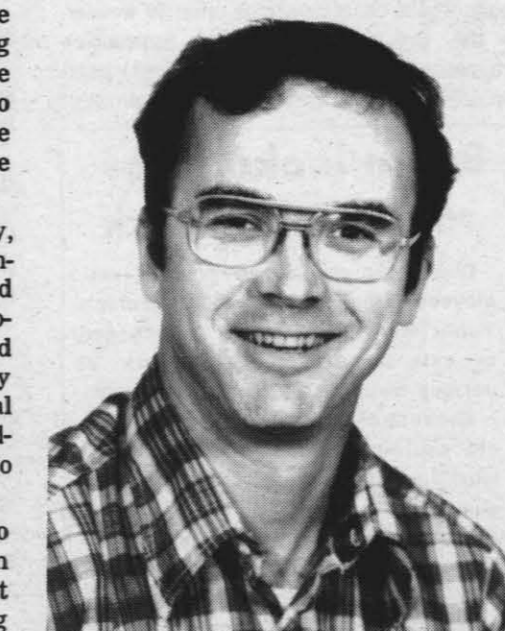
work involves analyzing Soviet and other foreign operations rather than technical operations.

The Weapons Planning Group's interest in this effort is aimed at helping the NFOIO to do its job better and also insure that Code 12 benefits by learning to make more effective use of available intelligence resources, Webb said.

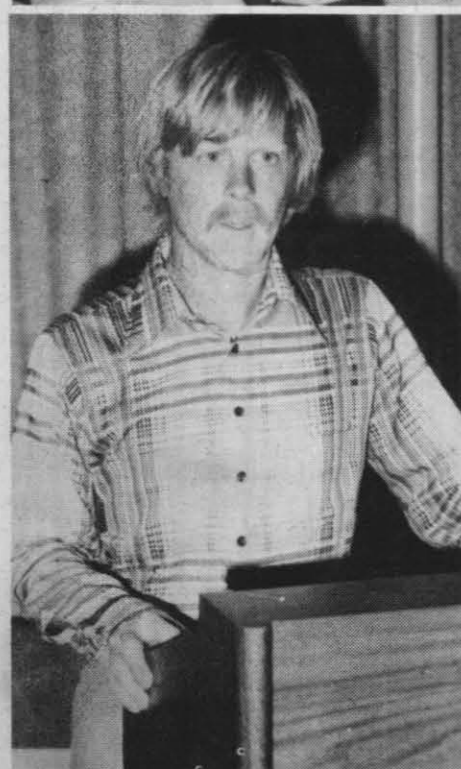
The personnel from Code 12 at NWC, Webb continued, have a better idea of what kind of intelligence products are useful to Navy laboratories and, by spending time at the NFOIO, can help those at Fort Meade tailor their output to laboratory user needs.

Webb, who has been at China Lake for a little more than 12 years, has spent 10½ years in the Weapons Planning Group after starting to work here as an electronics warfare analysis in the old Aviation Ordnance Department.

He is a graduate of Sacramento State College (now the California State University at Sacramento) with a bachelor's degree in mathematics and a minor in physics. He also has a master's degree in public administration which he received in 1975 from the University of Southern California.



John Webb



"CAREER DAY" PROGRAM HELD—The first of six day-long programs to be arranged during 1978 by the Federal Women's Program Committee at NWC was held on March 15 at the Community Center, with a break for lunch at noon at the Chief Petty Officers' Club. A high degree of interest was shown in a panel discussion presented by six women who are undergoing (or have completed) training to become machinists, electronics

mechanics, high voltage electricians, or air conditioning mechanics. They are (top photo, l.-r.) Hope Adams, Deane Campbell, Ann Stark, Mitzy Fortune, Sheri Miller and Nona Celestine. Other speakers during the day were (at lower left) Lynn Lacey, NWC Employee Assistance Program advisor, and Nick Curran, who is an employee development specialist with responsibility for trades training. —Photos by Ron Allen

## FWP Committee 'Career Day' program...

(Continued from Page 1)

working in the WG rather than GS job series were discussed by a group of women who are involved in either the apprentice or pre-journeyman programs, or who occupy Upward Mobility positions in the WG series.

The speakers were Sheri Miller and Nona Celestine, machinist apprentices; Deane Campbell, an electronics mechanic apprentice; Hope Adams, an Upward Mobility Program high voltage electrician trainee; Mitzy Fortune, an electronics mechanic who is a graduate of the pre-journeyman electronics mechanic program, and Ann Stark, a WG-3 air conditioning and refrigeration mechanic.

The participants in this panel discussion outlined some of the problems they had to overcome, how they felt about being trained in what had heretofore been considered men's jobs, and aired some amusing anecdotes that brought out some of the

## Enroll today for class in Effective Presentations

A class in "Effective Presentations" will be held at the Training Center, Rm. 201, April 3 through 6 from 8:30 a.m. to 3:30 p.m.

It will provide instruction in how to plan, organize and deliver presentations with emphasis on identifying the audience, setting objectives, organizing material, selecting media and good presentation techniques.

There will be classroom instruction and practical applications of techniques through participant presentations. Each participant is asked to come to class with a prepared 10-minute presentation.

Enrollment forms should be submitted to Code 094 via proper department channels. The enrollment deadline is today, but applicants may call NWC ext. 2686 or 2451 to reserve class space, pending department approval of the request.

stereotypes often applied to women and how they went about overcoming them.

In addition, the panelists told about the training they were receiving, showed some of the tools of the trade they are learning, and shared information about some of their accomplishments.

All of the women are pleased with their new careers, enjoy the work and the added pay benefits, and have established a good working relationship with their fellow employees, it also was brought out in the discussion.

According to Karen Altieri, Federal Women's Program Coordinator at NWC, these women will be the "role models for others who choose to enter other than traditional careers for women."

The "Career Day" program began with a talk by Nick Curran, a Personnel Department employee development specialist with responsibility for trades' training, who spoke about career options open to women in the pre-journeyman and apprentice programs that have not (in the past) been considered typical or traditional for women.

## Be on lookout for road repair work

Due to the recent heavy rains, employees of the Naval Weapons Center's Public Works Department are engaged in extensive road repair work at various locations on the Center.

Because of this, all vehicle operators are cautioned to be on the alert for workmen who are operating heavy equipment being used for road work and to grade shoulders alongside the road.

Stay alert and drive carefully is the request of the Public Works Department's Transportation Division.

## Desert Counseling Clinic dinner set Tues. at Elks Lodge

Five new members were elected and three incumbents were re-elected to serve on the 25-member board of directors of the Desert Counseling Clinic (DCC) during recent by-mail balloting that was participated in by the "Friends of the Clinic."

Those re-elected to serve three year terms on the board are Don L. Winter, an engineer in the NWC Engineering Department's Systems Evaluation Branch, who is a past president of the DCC; Ray Williams, pastor of the First Baptist Church in Ridgecrest, and Alice Ream, director of the licensed vocational nursing program at Cerro Coso Community College.

Newcomers to the board are Dr. Marcia Michalik, a pediatrician at the Drummond Medical Center; Susan Fisher, a pianist and tax preparer active in the IWV Association for the Retarded; CWO2 James Jewell, a physician's assistant at the Branch Medical Clinic of the Naval Regional Medical Center in Long Beach; William L. Capps, head of the Optical Signatures Branch in the NWC Weapons Department; and Kay Weeks, administrative assistant to the Joshua United Methodist Parish.

All interested persons will have the opportunity to meet the new and holdover members of the board of directors at the DCC's annual dinner meeting, which will be held Tuesday night at the Ridgecrest Elks Lodge, 201 E. Church St.

### Guest Speaker

A social hour will precede dinner at 6:30 p.m. Guest speaker following the dinner will be Dr. Gerald Jacobson, an internationally-known expert on crises intervention and community health. Dr. Jacobson, who also is a practicing psychoanalyst, will discuss the current status of mental health programs in California and his own psychosocial concepts.

The speaker will be introduced by Dr. Norman Shapiro, medical director of the Desert Counseling Clinic, and one of Dr. Jacobsen's former associates.

A special feature of the DCC's 27th annual dinner meeting will be the presentation of the Sylvia Besser Award to an individual who has advanced the cause of mental health in the Ridgecrest-China Lake community.

Tickets for the roast beef dinner that will be served are priced at \$7.50 per person. Reservations can be made no later than Monday by calling either Marj Boehme or Fran Lomas at 375-9781. Tickets can be paid for at the door on Tuesday evening.

## Donations sought for arts, crafts auction at college

The Fire Mountain Foundation is seeking donations of art and craft items for an exhibit and auction at Cerro Coso Community College April 7, 8 and 9.

The event is being held in connection with the "Great Desert Adventure" weekend, and the deadline for donations is next Friday, March 31.

Art and craft creations of Indian Wells Valley residents will be on exhibit and sale from 6 to 10 p.m. Friday, April 7; 9 a.m. to 10 p.m. Saturday, April 8; and 9 a.m. to 5 p.m. Sunday, April 9, in the college Student Center.

The auction of the items donated for sale will be held on Saturday and Sunday from 1 to 5 p.m.

"All proceeds from the auction this year will be used to establish a college student loan fund and a scholarship fund," said Ruth Cooper, president of the Fire Mountain Foundation.

Donations are tax deductible, and there is a need for oil paintings, water colors, ceramics, metal work, sculpture, macramé, needle point and other art forms.

Persons wishing to donate art may call 375-5001, ext. 67. The Foundation will arrange to pick up any donations at the convenience of the donor.



WELCOME TO THE REGULAR NAVY—Capt. F. H. M. Kinley, (right) NWC Vice Commander, officiated at ceremonies augmenting Center Chaplains Lcdr. Rodney C. Wallace (left) and Lt. Joseph G. Wambach into the regular Navy last Friday, March 17. The two have been serving on active Naval Reserve duty. Under the Navy's augmentation program, outstanding reserve officers are selected for regular service. Lcdr. Wallace, one of two Protestant chaplains at China Lake, is Officer-in-Charge of the Counseling and Assistance Center; and Lt. Wambach is the NWC Catholic Chaplain. —Photo by Ron Allen

## New assistant dental officer at Center reports from duty with USMC on Okinawa

Duties of assistant dental officer at the local branch clinic of the Naval Regional Dental Center in Long Beach are now being handled by Lcdr. Tom Comey, who joined the Navy in August 1972 after receiving a commission as a lieutenant in the Dental Corps.

Lcdr. Comey was transferred here recently from the Island of Okinawa, where he spent 2½ years assigned to the Camp Butler Marine Corps Base. He was on rotation to various clinics on Okinawa at which dental care was provided to Navy, Marine Corps and Army personnel.

A graduate of San Francisco State University, he received a BA degree in biology in 1968 and then enrolled in the University of the Pacific's College of Physicians and Surgeons. He was graduated with a doctor of dentistry degree in 1972.

His first assignment after joining the Navy was a three year tour of duty at the Whidbey Island Naval Air Station, Oak Harbor, Wash., and from there he and his family left for Okinawa.

Lcdr. Comey was accompanied to China Lake by his wife, June, their son, Tom, 11 years old, and a daughter, Annette, age 4.



Lcdr. Tom Comey

## Joint Cruise Missile Project Office vacancies announced

The following positions are organizationally and physically located in the Joint Cruise Missile Project Office, Washington, D.C. These positions are temporary in nature and are not expected to last beyond two years (but may be extended beyond this time with approval of the Civil Service Commission). Selectees will have return rights to their current activity at their grade level. Applications will be accepted from current Department of the Navy employees.

**General Engineer, GS-801-12**—Incumbent serves as the Reliability/Maintainability Engineer for the Navigation/Guidance Project of the Joint Cruise Missile Project Office. The incumbent is responsible for integrating the various R&M related functions into a system designed to meet Cruise Missile Program needs. He is responsible for defining adequate R&M requirements, proper and complete planning of the R&M program, and providing expertise in all matters pertaining to R&M in the various navigation/guidance systems. The incumbent interfaces directly with contractor management and engineering personnel to monitor/review the contractors R&M efforts for compliance with contract/specification requirements. **Job Relevant Criteria:** Knowledge of the methods and technology of reliability and maintainability engineering; ability to direct the efforts of weapons systems development contractors; ability to communicate correctly and concisely both orally and in writing. Skill in interpersonal relationships with individuals of diverse backgrounds and interests.

**Quality Assurance Specialist (Aerospace) GS-1910-12**—This is a readvertisement; previous applicants need not reapply. Incumbent will define, plan and direct a complete Quality Assurance Program for the Sea-Launched Cruise Missile and associated areas. Incumbent will prepare instructions for QA methods and procedures; negotiate QA requirements with contractors and government plant representatives; direct surveys, evaluations, and audits of the quality control and inspection system in contractor's plants; review and evaluate the performance of contractors in the implementation of QA programs; help contractors to

play QA programs; coordinate and integrate the QA program with other elements of the JCM program office; investigate reports of inadequate quality of material; establish a qualified parts list. Responsibilities also include preparing QA program progress reports for JEMPO and SLCM management and reports and instructions for contractors. The incumbent will consult and coordinate with, and direct as necessary AFPPRO, NAVPRO, and DCAS QA representatives. **Job Relevant Criteria:** Knowledge of quality assurance and quality control techniques for complex weapon systems; ability to direct the efforts of weapons systems development contractors; ability to communicate correctly and concisely, both orally and in writing; skill in interpersonal relationships (maintaining harmonious relationships with individuals of diverse backgrounds and interests, reconciling differences, facilitating compromises).

**General Engineer, GS-801-13**—Applicants for this position will be required to submit an up-to-date standard form 171, and fill out a supplemental questionnaire which is available in Room 212 of the Personnel Bldg. Incumbent is systems software engineer for all efforts related to Anti-Ship Cruise Missile. Software developments/modifications performed by the JCMPDO, Government labs and numerous private contractors. Plans, manages, coordinates and oversees efforts for the design, development, production and deployment of system software. Continuously reviews and monitors all software efforts to ensure program goals and objectives are met, including: resolving conflicts, preparing program schedules and milestones, interpreting requirements, allocating work, directing performance and initiating and controlling contracts. Determines trade-offs between hardware and software design changes, establishes a configuration accounting system as well as a software change control board. Conducts system studies and analysis for inputs to life cycle management plan. Acts as expert in cruise missile software development, evaluating potential subsystems and techniques as well as interfacing with all hardware disciplines, and responsible participation in long-range reviews and chairs software advisory group as related to anti-ships. Requires close contact and negotiation with

high-level government and contractor personnel. **Job Relevant Criteria:** Applicable technical background—knowledge in electronics (computers, electronic interfaces, radar seekers), mechanical (control surfaces, launchers, and gyro), and aerodynamic (flight software programs, flight guidance and control, and dynamics) theories and practices, plus ability to apply this knowledge to the generation of computer software; communication ability, both orally and in writing; ability to analyze complex problems and make recommendations and decisions; skill in interpersonal relationships.

**Mechanical Engineer, GS-830-13**—Serves as the conventional warhead/fuze engineer for the Sea-Launched Cruise Missile. Incumbent directs, monitors, and administers the development, design, test and evaluation of the warhead and the fuze and assures its integration into the missile. Defines technical requirements for mechanical, chemical, electro-mechanical, and electronic parts of the warhead/fuze. Originates technical administrative, and financial directives establishing development effort at government activities as well as at contractor facilities. Represents the Navy during program reviews, source selections, contract negotiations, briefings and at conferences in the assigned area. **Job Relevant Criteria:** Mastery of concepts, principles and practice of mechanical engineering as it applies to conventional warhead/fuze development, design and manufacture with basic knowledge of electronic/electro-mechanical assemblies such as safe and arming devices, contact fuses, and sensors.

**Engineering Data Management Specialist GS-301-11 or General Engineer, GS-801-11**—Incumbent serves as assistant configuration manager for the Sea-Launched Cruise Missile Project. Is responsible for performance of assigned duties in accordance with applicable Navy and DoD instructions. Incumbent identifies and documents the functional and physical characteristics of each configuration item; controls changes to these characteristics; analyzes identified system deficiencies, proposed changes and trouble reports; assesses the impact of modifying the configuration; directs or develops all approved changes; verifies changes; and records all actions.

Incumbent establishes baseline configurations, assists in establishment of Configuration Status Accounting and assists in configuration audits. Is responsible for establishing and maintaining a configuration management framework. **Job Relevant Criteria:** Knowledge and experience of configuration management programs as well as of Data Base Management Systems as they pertain to configuration management of complex aerospace/military systems going through the Weapon System Development Cycle; ability to direct the efforts of weapons systems development contractors; ability to communicate correctly and concisely, both orally and in writing. Skill in interpersonal relationships (maintaining harmonious relationships with individuals of diverse backgrounds and interests, reconciling differences, facilitating compromises).

**Supervisory General Engineer GS-801-14**—Serves as head of the Missile Integration Branch, Sea-Launched Cruise Missile Project responsible for overall administrative supervision of sea-launched cruise missile integration engineering including airframe, aerodynamics, hydrodynamics, fuel systems, nuclear warhead, electromagnetic compatibility, boosters and pyrotechnics, and the supporting functions of reliability, maintainability, quality assurance and configuration management. Incumbent organizes technical staff, performs interface with contractors and participating government activities. Is responsible, through a technical director, to insure necessary design reviews are conducted and corrective action is taken. **Job Relevant Criteria:** Demonstrated experience in managing a large, complex missile or similar avionics or military hardware program through the DoD acquisition system; ability to supervise; ability to direct the efforts of weapon systems development contractors; ability to communicate correctly and concisely, both orally and in writing. Skill in interpersonal relationships (maintaining harmonious relationships with individuals of diverse backgrounds and interests, reconciling differences, facilitating compromises).

**File applications for the above with Pat Gault, Bldg. 34, Rm. 212, Ph. 2414.**

**File applications for the above with the Navy Exchange office, Bldg. 1029, Ph. 446-2584.**

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## Promotional Opportunities . . .

(Continued from Page 2)

using both new and existing methods. Compiles and reduces test data and participates in its analysis. Maintains liaison with other personnel both on and off Center. **Job Relevant Criteria:** Knowledge of explosive materials and components; knowledge of specialized instrumentation relevant to the position (high speed photography, flash X-ray, submicrosecond electronic recording equipment); knowledge of safety requirements in the handling of explosives.

**Physical Science Technician, GS-1311-8, PD No. 7823013, Code 3272**—Known promotion potential to GS-11. Position is located in the Explosives/Propellant Branch, Propulsion Systems Division, Ordnance Systems Department. Incumbent formulates and cures propellant mixes, using both personal knowledge of safe operating procedures and compatibility of chemicals and a description of the required mix from senior chemists. Operates a variety of specialized mixing equipment and modifies or purchases such equipment as necessary. Mixes are cured in ovens and distributed to various groups for testing. Incumbent sets up and conducts computer evaluation of propellant performance and reduces and reports the resultant data. **Job Relevant Criteria:** Knowledge of computer science; knowledge of algebra, physics, and chemistry; knowledge of safe handling of hazardous propellant substances.

**Aerospace Engineer, GS-861-9/11/12, PD No. 7823018, Code 3246**—Advanced Propulsion Branch, Advanced Technology Division, Ordnance Systems Department. The incumbent performs work relating to the air inlet components of airbreathing missile propulsion systems. Duties include determining performance and physical constraints, performing and/or directing in-house or contractor personnel in the preparation of drawings, fabrication of models, wind tunnel testing, data reduction and preparation of reports. **Job Relevant Criteria:** Knowledge of aerodynamics and fluid flows; knowledge of computer programming and the techniques for using computers in analysis; skill in interpersonal relationships (fostering cooperation, reconciling differences, getting work done through others); ability to communicate correctly and concisely, both orally and in writing. Promotion Potential: GS-12. Applications will be accepted from status eligibles.

**Aerospace Engineer, GS-861-11/12, PD No. 7445011-1, Code 3274**—This position is located in the Solid Propulsion Branch, Propulsion Systems Division, Ordnance Systems

**File applications for the above with the Navy Exchange office, Bldg. 1029, Ph. 446-2584.**

Department. Incumbent directs and coordinates the design and development of one or more major propulsion system components, either in-house or by contract; mathematically predicts performance or design parameters; exercises technical supervision over draftsmen and junior engineers; plans and evaluates tests of components; represents engineering team at meetings and contractors and other activities; and performs duties associated with project's personnel, fiscal, technical, and scheduling aspects. **Job Relevant Criteria:** Knowledge of solid propellant rocket motor design; knowledge of pyrotechnic delay design; demonstrated skill in interpersonal relationships (working harmoniously with others, facilitating compromises, directing work efforts of others); ability to communicate correctly and concisely, both orally and in writing.

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

**Lead Purchasing Agent GS-1105-7 PD No. 7425015AMIN, Code 2522**—This position is located in the Purchase Branch, Procurement Division, Supply Department. The incumbent serves as a section supervisor, assigns and reviews work related to small purchase procedures and trains new employees. **Job Relevant Criteria:** Ability to supervise; knowledge of small purchase procedures; ability to meet and deal effectively with others; ability to work under pressure. Promotion Potential: GS-8.

**Supply Clerk GS-2005-5 PD No. 7825007N, (3 vacancies), Code 2572**—These positions are located in the Receipt Matching Section, Receipt Control Branch, Control Division, Supply Department. Duties include follow-up on delinquent procurements; expediting urgently needed material; conducting research to properly identify material received unmarked; preparing work order input data; receiving audits and certifying dealer's invoices. **Job Relevant Criteria:** Knowledge of voucher examining methods and regulations; knowledge of supply functions and procedures; ability to expedite and follow-up on material; knowledge of RIMS.

**File applications for the above with Ginger Hamaty, Bldg. 34, Rm. 212, Ph. 2371.**

**Warehouseman, NA-6907, Code 96**—This is not a Civil Service position. Incumbent works in shipping, receiving, and delivery. **Qualifications:** Must be able to operate 1 ton truck and forklift. Experience in stocking, storing, and palletizing preferred.

**File applications for the above with the Navy Exchange office, Bldg. 1029, Ph. 446-2584.**

**File applications for the above with Pat Gault, Bldg. 34, Rm. 212, Ph. 2414.**