

BHS Band Boosters to hold dance at Joshua Hall Aug. 26

The Burroughs High School Band Boosters will sponsor a summer dance at Joshua Hall on the Desert Empire fairgrounds starting at 9 p.m. on Friday, Aug. 26.

Proceeds from tickets priced at \$2 per person will go into a fund to be used for the purchase of an electric piano for the Burroughs Stage Band.

Donating their time and talents to this fund-raiser will be Mike Garrett's Big Band, playing dance music from the '40s, '50s and also some selections that will appeal to young people.

Providing rhythm for the band will be Paul Reilly, dean of student personnel services at Cerro Coso Community College, at the piano; Paul Burns, president of the Inyokern Chamber of Commerce, and formerly a musician with the Bobby Darin Band, playing guitar; Dwyane Evans, a former member of the Burroughs Stage Band, on bass, and Garrett, a math instructor at Burroughs, playing drums.

Saxophonists include Bill Lutjens, a student at Cal State University at Fresno; Don Wilkinson, Burroughs High School band director; and Karl Lind and Tim Young, both Burroughs students and members of the Stage Band.

Trombonists will be Kenny Gould, a UCLA music major; Mike McLane, a student at Cal State Fullerton; and Tom McLane and Matt Arr, students at Burroughs and members of the Stage Band.

John Pack and Brian Gravelle, Burroughs students and Stage Band members, will be playing trumpet. In addition, two musicians from the Cal State Fresno Jazz Band are expected to play.

Tickets may be purchased in advance at Music Man, Loewen's, Senn's Coiffures, the Daily Independent, and from Exchange Club members.

Yardage display planned

Ted Mahaffey, Navy Exchange retail manager, announced that yardage promoter "Stan the Man" Stan Wiesler will bring a wide selection of material to China Lake on Thursday, Sept. 1, and Friday, Sept. 2.

The material will be displayed in the Panamint Room of the Community Center, and will be available only to military personnel or their dependents. According to Mahaffey, prices on this yardage are very competitive.

Wiesler, who is from Los Angeles, displayed similar material to the Navy Wives Club last year.



—Photo by Bill Bennisson

TENDER MOMENT — Bob Schwarzbach, as Warren, is seen explaining to Gregory, played by Rhonda Hill, how he has lost the use of his legs in this scene from the China Lake Players' production of "Tell Me That You Love Me Junie Moon." The play will open at the group's hut on McIntire St. tonight at 8:15. Additional performances are slated tomorrow night and on Aug. 26 and 27.

Curtain to go up here tonight on China Lake Players' 'Junie Moon'

The China Lake Players' production of "Tell Me That You Love Me Junie Moon" will open tonight at 8:15, and continue tomorrow night as well as on the evening of Aug. 26 and 27 at the Players' Hut, 405 McIntire St., China Lake.

"Junie Moon" is a most unusual love story as the heroine is a most unusual girl. Having been disfigured by acid, deserted by her family, hospitalized for several years, Junie (portrayed by Ramona Bernard) still retains a sense of humor and the desire to lead a fulfilling life.

During a stay in the hospital, Junie meets two other disabled young people, Arthur and Warren, and the three pool their resources to get out on their own. Arthur, played by Steven J. Carter, has spent most of his life in 37 different hospitals, a victim of a progressive neurological disease.

Bob Schwarzbach will be seen in the role of Warren, Junie's other friend. He was spoiled by his grandmother and now finds himself alone and a paraplegic. It is his insistence that leads the trio to finding a home of their own.

Dr. Kirkland, the doctor who encourages the young people in their efforts, will be

portrayed by Bill Bennisson. Julie Pennington and Lisa White play the hospital nurses, Miss Oxford and Miss Holt.

Wave Seybold will be seen as Minnie, a senior citizen confined to the hospital. Other patients or visitors in the institution include Andy McMullen as John and Julie Baker as his girlfriend, Marilyn.

In the outside world, the young people meet LeRoy Doig as Sidney Wyner, the bigot who lives next door, and Gregory, played by Rhonda Hill, the rich spoiled girl. Rus Stedman will be seen as Mario, a gentle person who befriends the trio and finds himself in love with Junie.

Director of this production of "Junie Moon" is Stedman, assisted by Mike Burmeister. Mark Claunch is the technical director, Chuck Morgan is in charge of sound, Schwarzbach and Burmeister are doubling on lights, and Karin Lindblom will be doing properties.

Tickets for this "young" China Lake Players production—all of the cast and crew are of high school or college age—are priced at \$2.50 for adults and \$1.50 for all others. Reservations are requested and may be obtained by calling Rosalie Barber at 375-9470.

Contemporary rock group to perform tonight at CPO Club

The Chief Petty Officers' Club will provide dancing to the tunes of the Wes Thompson Trio, a contemporary rock group, tonight from 8:30 p.m. until 12:30 a.m.

Dinner special for the evening will be prime rib, served from 6 to 9 o'clock.

Tickets are still available for the CPO Club's annual Hawaiian luau, which is to be held on Saturday, Aug. 27, beginning at 6 p.m. A buffet of tropical dishes, dancing, and a floorshow by Tiare Productions will be the featured attractions at this special event.

Cost for the evening will be \$10 per person and, due to limited seating capacity, interested persons are urged to purchase tickets well in advance at the CPO Club office.

Dance slated at Shuttle

The Billy Cioffi Band will be playing rock music at The Shuttle tonight and tomorrow night from 9 to 1:30 a.m.

Spanish dinner scheduled

The Commissioned Officers' Mess (Open) will be featuring a complete Spanish dinner on Tuesday from 6 to 9 p.m.

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.

Program subject to change without notice.

For further information call NWC ext. 2259.

FRI. 19 AUGUST

"BLOOD IN THE STREETS" (94 Min.)

Oliver Reed, Rocio Testi

(Action Drama) An Italian criminal (Testi) buries a fellow thief shot during a robbery attempt in Milan, an industrialist is murdered by a cyclist and the politically motivated assassins blame the killing on the dead thief. In order to get Testi, the assassins plot the kidnaping of a prison warden's wife. When a guard is killed, Testi has an opportunity to escape, but instead decides to help find the warden's wife. With no time to spare, the two embark on the dangerous mission of finding the assassins before it is too late. (R)

SAT. 20 AUGUST

Free Matinee

"CODE OF THE PRAIRIE"

1:30 p.m.

SAT. 20 AUGUST

"THE SENTINEL" (92 Min.)

Cristina Raines, Chris Sarandon

(Horror Drama) Sin and Satan return, this time in Brooklyn Heights with the Church and the devil battling for possession of a young model's will. The unfortunate individual caught up in the terror and the battle between good and evil is apartment-hunting covergirl Christina Raines. Fresh from her father's funeral, she moves into an old brownstone with a spectacular view and an even better price. No sooner has she taken up residence than she is beset by strange neighbors, stranger sounds, nightmares, stabbing headaches and fainting spells. (R)

MON. 22 AUGUST

"ISLANDS IN THE STREAM" (105 Min.)

George C. Scott, David Hemmings

(Drama) A middle aged artist (Scott), who has chosen to work in isolation on a tropical island, is pleased when his three sons from two broken marriages arrive to spend the summer with him. Set in the Bahamas during WW II, this film is a character study of a man who is re-establishing his relationship with his sons. There is a touching scene when one of Scott's ex-wives comes to visit him to relate the story of their oldest son, who died as a combat pilot. In an exciting climax, Scott risks his life to aid Jewish refugees by evading a Cuban Coast Guard patrol so they can make their escape to Cuba. (PG)

WED. 24 AUGUST

Matinee

"ROBIN HOOD"

1:30 p.m.

WED. 24 AUGUST

"THE LATE SHOW" (93 Min.)

Art Carney, Lily Tomlin

(Comedy-Drama) Murder and mystery mingle with comedy in this tale of an over-the-hill private detective (Carney) who sets out to solve his partner's murder. He becomes involved trying to find a missing cat for a kooky client (Tomlin). As the plot thickens, they both find themselves drawing closer together in a rather touching, but unconventional, romance. (PG)

FRI. 26 AUGUST

"MR. BILLION" (93 Min.)

Terrence Hill, Valerie Perrine, Jackie Gleason

(Comedy) This comic-chase caper involves scoundrels who try to swindle an Italian auto mechanic out of a billion dollar inheritance. Guido Falcone (Hill) has 20 days to claim the legacy left him by an uncle. Taking pains to see that he doesn't collect is the departed uncle's business associate (Gleason), who sends a tempting female (Perrine) to dope him and thugs to kidnap him. (PG)

SAT. 27 AUGUST

Free Matinee

"DUEL AT APACHE WELLS"

1:30 p.m.

U.S. Government Printing Office: 1976 - No. 1040

From: _____

To: _____

PLACE
STAMP
HERE

BM2 Stearman gets Bluejacket of Month honor

Boatswain's Mate Second Class Robert R. Stearman, a native of Stillwater, Okla., has been named the Naval Weapons Center's Bluejacket of the Month for July.

The 10-year Navy veteran currently serves as NWC's assistant BEQ manager and assignment desk petty officer. As such, he is responsible for the assignment of occupants to specific rooms, the accountability of occupants within the BEQ, control of custody cards for individual room



BM2 Robert R. Stearman

furnishings and room keys, and issuance of all linens to BEQ occupants. In addition, he handles room reservations for permanent change of station and transient personnel.

"This is a very enjoyable job I have," says BM2 Stearman, "because it means communication with different kinds of people and being of service to them. Besides, there's lots of challenge in getting all BEQ residents to cooperate."

According to ATCS G. L. Schmidt, NWC BEQ officer, "BM2 Stearman is a professional in all respects and he never hesitates to devote full time to his assigned task. He has demonstrated that he is highly motivated and possesses an understanding of human needs that is so important to a person in his position."

ATCS Schmidt added, "His managerial skill and his strict standards of grooming have significantly contributed to the working organization in the NWC bachelor enlisted quarters."

July's Bluejacket of the Month enlisted in the Navy in his hometown in 1967 after

(Continued on Page 5)

Fuel-air explosive weapons well known product of Code 32

(Editor's note: This is the second and final installment about Code 32 and the wide range of its programs and projects which led to the recent decision to change its name from Propulsion Development to Ordnance Systems Department.)

The Weapons Systems Branch, Code 3263, is headed by James A. Bowen. Its assigned mission is to conduct a broad range of efforts on distributed blast damage mechanisms ranging from research to effectiveness of weapon system development.

Although better known locally for the FAE (fuel-air explosive) II and SLUFAE (the surface launched unit FAE) projects, Code 3263 is, in fact, a national focal point for all FAE-related matters. The cluster bomb unit (CBU-55/B) low speed FAE weapon and its sister high speed FAE weapon (the CBU-72/B) are the only FAE weapons known to exist in any military inventory in the world.

Bowen managed the development of these initial FAE systems. As a result of his success in this field, he has become known both nationally and internationally and is responsible for the initiation of second generation FAE programs in this and other countries. The FAE projects are backed up by an experienced research, technology and



nwc rocketeer

Naval Weapons Center
China Lake
California

August 19, 1977

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Jerry Reed first NWC employee to be selected for Congressional Fellowship

Jerry Reed, head of the Test and Evaluation Directorate's Long Range Planning Office, has been selected as the recipient of a Fellowship in Congressional Operations for the period from Nov. 9, 1977, through Aug. 15, 1978.

Reed, who is the first Naval Weapons Center employee to be so honored, is one of just 20 Federal government employees to be singled out for a 1977-78 Congressional Fellowship after an extensive screening process that began following his nomination four or five months ago by NWC.

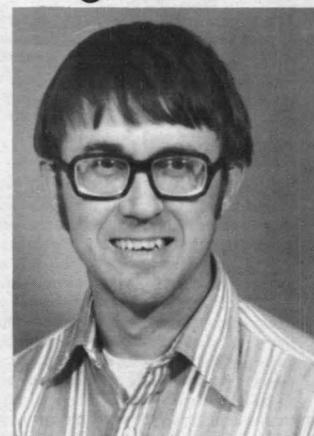
His qualifications were reviewed by Department of the Navy's Office of Civilian Personnel and then forwarded to the Civil Service Commission, which conducted personal interviews of the final 50 candidates before selecting the 20 Congressional Fellowship recipients.

One of 47 Chosen

Reed, who has been an employee at China Lake since 1965, will be one of 47 Congressional Fellows during 1977-78. In addition to Federal Civil Service employees, others have been chosen from the ranks of outstanding representatives of industry, the fields of medicine and journalism, as well as some individuals from foreign governments.

NWC's first Congressional Fellowship winner joined the ranks of employees at China Lake as a member of the former Test Department's Infrared Countermeasures Group. In 1970, he started the Aircraft Survivability Program and his steadily increasing responsibilities since that time have included heading the Aircraft Guns Systems and Survivability Branch, and serving as head of the former Test and Evaluation Department's Project Engineering Division.

It was while serving in this latter position that Reed was chosen last September to receive the L.T.E. Thompson Award—the Naval Weapons Center's highest recognition for individual achievement. He was commended for "his outstanding



Jerry Reed

technical and administrative leadership in furthering NWC's Test and Evaluation mission."

This led to his selection to fill the position the principal function of which has been to direct the group whose members are coordinating the Project 21 program—a 25-year plan designed to prepare NWC's T&E facilities for the 21st century.

While his Congressional Fellowship ac-

Mid-summer rainstorm hits desert area

Tropical storm Doreen, the remnant of a hurricane, as of press time last Wednesday morning had already dropped enough rain in the Indian Wells Valley to put the local area above its normal rainfall total for the entire year.

AGC Jerry McMullen, chief petty officer in charge of the Naval Weather Service Environmental Detachment here, said that instruments at the airfield had recorded one-half inch of precipitation and that "we

could still get another two inches of rain easily" between Wednesday afternoon and Friday, the date by which the storm is expected to break up and move east.

Normal rainfall for this area over the course of the entire calendar year, said AGC McMullen, is 2 1/4 inches or less, and that for August is only .10 inches. Now, with better than four months of the year remaining, rainfall in this area has totaled slightly over 3 inches.

As a result of these and other planned activities, Congressional Fellows are expected to gain a thorough knowledge of the

(Continued on Page 5)

Full Time Assignments
(2) Full time work assignments, following the orientation period, with members of the House of Representatives and the Senate and with staff members of Congressional committees.

(3) Weekly seminar meetings with leading Congressional, governmental and academic figures throughout the Fellowship year.

As a result of these and other planned activities, Congressional Fellows are expected to gain a thorough knowledge of the

development support group which not only conducts Navy FAE warhead research and exploratory development, but also coordinates tri-service FAE research and

technology efforts.

This group maintains a state-of-the-art blast instrumentation capability to conduct terminal effectiveness testing and target



SECOND GENERATION OF FAE — Examining the operation of folding fin mechanism on a 500 lb. model of the FAE II weapon are (l.-r.) Cdr. Phil Oppedahl, Don Herigstad, Al Lopez and Larry Josephson. Visible behind the smaller weapon is a 2,000 lb. version of the FAE II. Cdr. Oppedahl, from the Armament Division of the Naval Air Systems Command in Washington, D.C., is the FAE II deputy program manager for NAVAIR. Herigstad is NWC's counterpart to Cdr. Oppedahl on the FAE program, while Lopez and Josephson are the Center's FAE II project engineer and program manager, respectively.

—Photo by Ron Allen

vulnerability analysis. Although the branch is currently FAE oriented, the managers, engineers, physicists and technicians have a broad background in weapon systems research and development, particularly those employing blast damage mechanisms.

The FAE II Program Office is located within the Weapons Systems Branch and headed by Larry Josephson. This office is responsible for the development of second generation FAE weapons. The FAE II effort requires expertise in the areas of explosive transfer, the interaction between explosives and flammable liquids, blast measurement and target vulnerability.

Other discipline areas involved include design of thin-skinned structures for dynamic loads, the aerodynamics of weapon separation from aircraft, the design and function of folding fin mechanisms, the dynamics of parachute deployment, and the safe handling and storage of flammable liquids.

Over the years, a great deal of experience in conducting test programs, both on- and off-Center, has resulted in an excellent capability for planning, coordinating and conducting tests. The FAE II program is a joint service program and, as such, has required considerable coordination with the

(Continued on Page 4)



MEMBERSHIP COFFEE PLANNED — Preparations have begun for the annual membership coffee of the Women's Auxiliary of the Commissioned Officers' Mess (WACOM), which will be held on Tuesday, Sept. 13. Theme for this year's coffee is "a garden party"; appropriately, it will be held in the yard of Capt. and Mrs. F. H. M. Kinley's home at 2 Enterprise Rd., China Lake. Shown are (l.-r.) Lorna Moore, Connie Reed and Nancy Branch, who are working on name tags for the party. All wives of members of the COM or women members are invited to attend. Complimentary babysitting will be available at the Chapel Annex. For further information, interested persons are asked to contact Mrs. Branch, WACOM vice-president, by calling 446-2192.

—Photo by Ron Allen

Abandoned, uncontrolled animals pose severe problem

It's raining cats and dogs at NWC; residents to blame

By Bev Lough

WHO SAYS there isn't an animal control problem at NWC? In the past seven years, the animal shelter at China Lake has handled more than 23,600 animals; over 19,300 of which were destroyed.

In fact, out of the 679 dogs and 448 cats impounded at the Center animal shelter last year, only 276 dogs and seven cats were returned to their owners. Facts like these indicate that the problem is more of a mountain than a molehill.

It is estimated that three out of five Center families have pets on base — a privilege granted by Center Command (NAVWPNCEN INSTRUCTION 5820.3E). Yet there are as many loose animals on the base today as there were four years ago when there were 50 per cent more residents, according to Harry Parode, head of the Office of Information.

Although civilians are large contributors to the problem of animal control, "the Center has seen evidence to indicate that pet abandonment by military families are also a matter of concern," agree Parode and Natalie Harrison, community liaison assistant. While this indication may be the result of the "transient nature" of military personnel, the problem cannot be ignored.

The effects of abandoned and uncontrolled animals pose a serious problem for the entire base. "Only one in a million abandoned animals escapes death from

exposure, accident or sadistic treatment," says a New York interest group called Friends of Animals. Moreover, noise, potential injuries to young children, roaming packs, spreading of diseases, and the increased reproduction of stray dogs and cats are problems that demand immediate attention.

Residents of the Center may be surprised, says Loretta King, assistant to the Public Information Officer, to learn that they are not immune to state laws regulating animal control.

California Penal Code 597s: "Every person who willfully abandons any domestic dog or cat is guilty of a misdemeanor."

California Penal Code 597: "Any person owning or having custody of an animal must provide proper food, water, and shelter. Violation constitutes a misdemeanor."

Recommended Procedure

If a stray animal is sighted, call the Animal Control Officer (939-3190), or after normal office hours call the Ridgecrest Police Department (375-5044). The animal will be picked up, taken to the animal shelter, and, if the animal is wearing tags, an attempt will be made to notify the owner. If the owner doesn't claim the animal within four working days, it will be made available for public adoption or be destroyed.

An impounded animal can cost the owner up to \$30 in fines and \$2.50 per day in shelter charges. For dogs, "the owner must provide proof of tags and rabies shot," says Mert Davis, animal control officer, or make additional payments.

Enforcement of these penalties depends on cooperation of NWC residents in reporting strays and abandoned animals. In pet abandonment cases which reach the courts as a violation of the state penal code, persons may be asked to testify.

Alternatives to abandonment include taking pets along on vacations and relocations; getting pets accustomed to cars and travel months in advance; purchasing inexpensive cardboard carriers from local pet shops, and using tranquilizers to calm pets.

Vacation Advice

If pets cannot be taken on vacations, they may be put in one of the commercial Ridgecrest kennels. When Centerites leave pets in the care of neighbors, China Lake police should be notified so that a responsible party can be contacted if the pet is impounded or causes a disturbance.

To make moving arrangements even more convenient, consult animal travel agencies located in Southern California or brochures listing hotels and motels throughout the country which accept pets.

If traveling or moving with a pet is impractical, local advertising may help in the search for a new home. Groups like the National Cat Protection Society (NCPs) provide facilities where older cats may be retired; younger cats are also accepted, but the Society attempts to find new homes for them. For information regarding the NCPs, write to 1528 W. 17th St., Long Beach, Calif., 90813.



NOT MUCH ELBOW ROOM — Often, more than five dogs are put into one dog run at the Center's animal shelter, thanks to the negligence of pet owners who abandon their charges or who allow them to breed indiscriminately. These strays are now awaiting new homes. —Photos by Ron Allen

As a last resort, a pet can be taken to the animal shelter located at China Lake, which is operated by the City of Ridgecrest and is available for the benefit of the entire Indian Wells Valley community. Even though these shelters are short of money and space, and the animals may be destroyed if a new home isn't found, Patricia Gay, a concerned NWC resident, believes the care and treatment at a shelter are much more humane than abandonment — "a cruel fate." For information on the various alternatives to abandonment call Mrs. Gay,

446-2484, or contact local pet shops.

The number of stray animals on the Center can be reduced by having pets "fixed." The Spay and Neuter Clinic offers reduced rates for dogs and cats; contact Animal Control Officer Davis by calling NWC ext. 3190 for more information.

In the final analysis, animals don't cause the abandonment problem, people do. "Laws governing the care of pets mandate humane treatment," concluded Parode, "and abandonment is certainly inhumane!"

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 692, 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 supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor. If 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.

During the time that the current Reduction in Force is in progress, selections will not be made from ads listed in this column until the impact of potential RIF placements can be determined.

General Equipment Inspector, WG-6901-7, JD No. 385N, Code 25922 — This position is located in the Inspection Section, Receiving Operations Branch, Material Division, Supply Department. Incumbent inspects all material received on Center from commercial vendors; checks each item to insure that it conforms with contract requirements and meets specifications relative to type, size, quality, quantity and dimensions; inspects for damage and determines responsible agent where possible; rejects items if damaged or incorrect and insures that paperwork accompanies items accepted or rejected and determines if substitutions made by vendor are permissible under terms of contract or purchase order. Job Relevant Criteria: Ability to inspect, use standard inspection procedures in the area of the job, and interpret instructions, specifications, etc.; knowledge of materials, dexterity, and safety. Previous applicants need not reapply.

Mechanical Engineer, GS-830-7/9/11/12, or Electrical Engineer, GS-855-7/9/11/12, PD No. 773044-1E, Code 3351 — This position is located in the Product Engineering and Fleet Support Branch, Electro-mechanical Division, of the Fuze Department. Duties include the technical direction of contractors manufacturing fuzes and missiles being fuzed, analysis and evaluation of test programs for safety-arming devices and electromechanical fuzes, and studies to establish baseline design approaches for new or modified fuzing systems. Job Relevant Criteria: Knowledge of production engineering and ability to conduct analysis and evaluation of test programs, conduct conceptual design studies for fuzing systems, and dealing with contractors, other DoD agencies, and all levels of Center management. Previous applicants need not reapply.

File applications for the above with Ginger Hamaty, Bldg. 34, Rm. 212, Ph. 2022.

General Engineer, GS-801-11/12, PD No. 745513-2, Code 36904 — This position is that of a system safety engineer in the System Safety Office, Product Assurance Division, Engineering Department. Incumbent will be responsible for the implementation of Department of the Navy Directives for System Safety in a manner consistent with the mission of the Center and the related system or subsystem objectives. Duties include providing system safety data to program managers, formulating system safety management procedures and schedules, and selecting and performing detailed systematic hazard analysis. Job Relevant Criteria: Experience in engineering which has included at least five years in activities such as system engineering, reliability, ILS, or other technical discipline; ability to conduct meetings, make presentations, and to interface effectively with all levels of management. Experience in system safety is preferred, though not mandatory. Training will be provided.

File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2925.



DIVINE SERVICES

PROTESTANT
Sunday Worship Service 1015
Sunday School — All Ages 0900
Sunday School Classes are held in Chapel Annexes 1,2,4 (Dorms 5, 6, 8) located opposite the former Center Restaurant.
Communion Service first Sunday of the Month.
ECUMENICAL
Wednesday Noon Bible Study 1130
Thursday Men's Prayer Breakfast 0630
ROMAN CATHOLIC
MASS
Saturday 1700 Full Hills Sunday obligation
Sunday 0700 0830 1130
Nursery, Chapel Annex 1 0815-1245
Daily except Saturday, 1135, Blessed Sacrament Chapel
CONFESSIONS
Daily 1115 to 1130
Saturday 1615 to 1645
Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES
Sunday Pre-School thru 4th grades 1015
Wednesday Kindergarten thru sixth 1530
Sunday seventh & eighth (Junior High) 1900
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday evening Ninth thru 12th grades
As announced "In Home" Discussion Groups
Youth Rallies
Contact Chaplain's Office for specifics.
JEWISH SERVICES
EAST WING — ALL FAITH CHAPEL
Sabbath Services every Friday 1930
UNITARIANS
CHAPLAIN ANNEX 95
Sunday Services — (Sept.-May) 1930

NWC softballers to compete in MDISL slow pitch tourney

By Bev Lough

"Coming from the backwoods of Minnesota," says Mike Jacobson of Code 36's Control Design Branch, "I knew I had to go to some other area for college to become an engineer." This belief prompted his move to California in 1968.

After receiving his degree in aerospace engineering from California State Polytechnic University, Pomona, in 1970, Mike came to work at NWC — his one and only job offer. Due to the "slump in the aerospace industry in the early '70s," Mike says, "only seven out of 57 graduates (in his major) got jobs in the aerospace industry."

In the fall of 1975, Mike transferred to the Engineering Department, after four years in the Propulsion Development Department, in an effort to avoid "limited promotional opportunities in technical fields." He felt this change would aid his previously selected route to promotions through management training.

Technical support to four primary missile programs is supplied by Code 3636. The duties of this branch include applying new concepts that will reduce cost and increase reliability, determining causes of failure due to production changes, finding acceptable corrective action, and deciding what to do with defective parts.

"I act as a kind of senior project engineer; I intercede when problems are unsolved," Mike says. He enjoys his current supervisory role, because he faces a variety

of problems that are similar in their mechanical orientation but different in most other aspects. He was "pleasantly surprised to find a great amount of technical work" as a manager who isn't limited to administrative tasks like signing time cards.

When looking back on the beginning of his career at NWC, Mike recalls his first year when he received an indoctrination into the Center's activities through the Junior

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Employee in the Spotlight



Mike Jacobson

Professional Program. This training period from 1970 to 1971 consisted of a series of three-month tours in the Structural Mechanics Branch, the Electro-Mechanical Design Branch, the Systems Technology Branch, and the Weapons Branch.

"Getting new, young blood into the organization" is the Junior Professional Program's function. As a recruiter in the program, Mike feels a "deep commitment to bring a constant influx of young people" to NWC. "Unfortunately," he says, "the program is not as popular (now) due to hiring freezes."

Mike and his wife Patty are also deeply committed to "the important but relatively unknown" Specialized Foster Child Program conducted by the Desert Counseling Center. This program gives foster parents training in communicating with children and related problem solving. In addition to their own children — Arron, 4, and Jennifer, 6 — the Jacobsons also have three foster children — Sandra, 4, Ronnie, 6, and Jeff, 10.

Built Own Home
Prior to the energy crisis of 1973, Mike decided to build his own home on the desert. "I didn't like the roof-top-to-roof-top status of city living," he says. "I wanted a rustic nature in the house and liked old Spanish architecture," Mike found that most construction from that era was adobe style, because it "stays reasonably cool during the hot part of the day and reasonably warm at night."

Mike discovered that the home could uniquely lend itself as a heat storing device, and so he began to design his own solar heating system. Using air as a heat transfer unit, Mike realized considerable savings from commercial prices.

In the spring of 1974, he started construction on his home using modified, modern building techniques (concrete blocks assembled in adobe fashion) and often putting in 15-hour days.

The Jacobson family moved into its new home midway through construction. Mike admits, "it was pretty barren inside, like living in a back-woods Minnesota shack." However, he feels this will be only one of the many interesting memories the members of his family will have to look back on for the rest of their lives.

IWV Youth Football signups to continue tonight, tomorrow

Registration for the upcoming Indian Wells Valley Youth Football season will continue at the Ridgecrest Bowl from 7 to 9 o'clock tonight and from 2 to 4 p.m. tomorrow.

In order to be eligible to play in the league, boys must be from 8 to 14 years, 6 months of age and weigh no more than 175 lbs., nor may youngsters be attending any grade higher than the eighth.

Practice will begin Monday afternoon at Kelly Field, on the campus of Murray School, while competition will start Sept. 17. According to league officials, about 140 boys have signed up so far, and it is anticipated that eight teams will be formed — two each in the freshman, sophomore, junior and senior divisions.

Vehicle check rules at Lauritsen gate changed

The security guard on duty at the Lauritsen Rd. gate to the Naval Weapons Center range areas is currently required to log in all vehicles on normal working days between 10 p.m. and 6 a.m. (not 6:30 a.m.), and all days on Saturdays, Sundays and holidays.

The guard records the type of vehicle, driver's name and NWC pass number, as well as the number of occupants. Between the hours of 6 and 10 p.m. on regular working days, the guard on duty merely checks to make sure that the vehicle driver has a valid NWC gate pass good for range area access.



ACADEMIC RECOGNITION — Four NWC apprentices recently received sustained superior performance awards for maintaining a perfect 4.0 grade average at Cerro Coso Community College for 26 to 27 units of study in the apprentice program. Shown receiving their awards are (l.-r.) Steve Henderson, Lanny Phillips, Sherri Miller, and Ron Schiller, who were congratulated by Bob Stedman, Technician and Artisan Committee Chairman (far right). Henderson is an electronics mechanic apprentice; the other three are machinist apprentices.



NEW ADDITION TO THE PACK — One of the recently picked up stray dogs is removed from the pound truck by the animal control officer, Mert Davis, and will be added to the already crowded shelter.

The Rocketeer

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DEADLINES
News Stories Tuesday, 4:30 p.m.
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Phones 3354, 3355, 2347

Results announced in doubles tennis tourney held here

There were few surprises in last weekend's doubles tennis tournament held at the China Lake courts as two of the top three seeded teams won the championships of their divisions.

Top seeded Dick and Dave Boyd, a father and son team, knocked off Roy Miller and Wilt Wyman in the deciding match, 6-1, 6-1, to take the crown in the men's division. The consolation round was won by Bob Campbell and Gary Fry, who bested Manuel Mata and Sam Warren by scores of 7-5, 7-5.

Another pre-tourney favorite, the team of Ruth O'Neill and Charlene Newmyer, defeated Carol Robertson and Marla McBride, 2-6, 6-0, 6-3, to win the championship of the women's division. Pat Burmeister and Ruth Blume put together 6-1, 6-3 sets to win the consolation bracket against Eileen Evans and Alita Connell.

The only upset of the tournament came when the top-seeded team of Dave Boyd and Mrs. O'Neill lost in the semi-finals of the mixed division round to Wilt and Diana Wyman. The Wymans then dropped the championship match to Dick Boyd and Mrs. Newmyer by the scores of 6-2, 6-1. Steve and Sandra Lyda beat Lon Graves and Linda Duncan, 6-3, 6-3, for the consolation title.

The winners and runners-up of each championship match, plus the winners of the consolation rounds, each received trophies at an awards ceremony held Sunday evening at the home of Dr. and Mrs. Lon Graves.

This was also the occasion at which the China Lake Tennis Club, co-sponsors of the tourney (along with the NWC Special Services Division) presented the Wymans with a clock in the form of a tennis racket and a going away cake prior to their forthcoming departure from China Lake.

In the near future, Wyman will become recreation director of Naval Station Guam. The club's next event will be a junior open tennis tournament to be held here on the weekend of Sept. 24 and 25 for players 18 years of age and under.

Late archery season set

California's late archery deer hunting season and archery bear hunting season for 1977 will open tomorrow, the Department of Fish and Game said in a reminder issued this week.

The DFG cautioned bowhunters to check regulations booklets carefully for open areas, bag limits and special rules before setting out. Regulations booklets are available wherever licenses and tags are sold.

The seasons will continue through Sept. 11.



TROPHY PRESENTED — Tom Fortney, umpire-in-chief of the Hi-Desert Umpires' Association, presents the trophy symbolic of the championship of the Women's Fast Pitch Softball League to Dean Ricketts (at left) manager, and Bill DeBejar, coach of the Comarco team.



TRY FOR PICK-OFF — Mike Tosti catcher for the Hi-Desert Umpires' Association team, made it safely back to first base on this pick-off attempt by Line Scanlon, pitcher for the Comarco women's fast pitch team. The first baseman reaching for the ball is Denice Ricketts.

Umps defeat Comarco in light-hearted end to Women's Fast Pitch Div. play

In a strictly-for-fun wrap-up to the regular season of play in the Women's Fast Pitch Division of the China Lake Intramural Softball League, the Comarco team took the field on Wednesday night of last week for a game against an opposing squad composed of members of the Hi-Desert Umpires' Association.

The game, which took place at Reardon Field and was won, 20-10, by the umpires, was followed by a barbecue for the players and members of their families, as well as presentation of a trophy to the Women's Fast Pitch Division champs.

The contest was close for the first 2½ innings of play, but was turned into a rout in favor of the umpires when their turn to bat came around in the bottom of the third frame.

Comarco Draws First Blood

Leading off in the top of the first inning, the Comarco nine scored twice, with credit for the two RBIs going to Jo Maschoff, shortstop for the women's team. The latter batted out a double with two of her teammates on base. They were Dorothy Gonzales, who had drawn a walk, and Laura Reymore, who singled.

Big Tom Fortney evened things up for the umpires as he came through with a two bagger that followed singles by Mike Tosti and Jeff Haun and enabled them both to score.

The umpires added a single run in the bottom of the second to take a 3-2 lead, but then broke the game wide open with a 7-run outburst in the third frame, when the entire lineup batted around. By the time the dust had cleared at the end of the third inning, the umpires had a comfortable 10-2 lead.

Golf tourney raises \$2,500 for local athletics fund

Entry fees from the 53 two-player teams, along with a major assist from Ridgecrest merchants who provided support for the second annual Frank D. Robinson Memorial Golf Tournament, succeeded in raising a total of \$2,500 that will go into a fund to be used for the improvement of athletics in the local area.

First place in the handicap flight of this partner's best ball event, which was sponsored by the Century Football Association of the Indian Wells Valley, was won by the two-man team of Don Hiles and Ron Williams, who finished their 18-hole round with a score of 16 under par.

As their first place prize, they selected a golfing vacation of three days of golf, lodging and meals at the Pala Mesa golf course located near Escondido, Calif.

The father and son team of Max and Kevin Smith came in second in the handicap flight with a score of 13 under par.

Those who placed third through ninth in the handicap flight (in order of finish) were: Don Fraser and Jim Downard, Jack

Jess Fortney, shortstop, accounted for 2 of his team's 7 runs with a 3-base hit in the third frame.

Although the umpires, with Pete Klassen handling the pitching chores, gave up two runs to Comarco in the top of the fourth, a pair of two base hits by the Fortneys (Jess and Tom) in the bottom of the fourth, combined with two more singles — produced another four runs that boosted the umpires' lead to 14-4.

There was still more damage to come, however, for the free-hitting Umpires' Association team tallied six more times in the fifth inning. Extra base blows registered by the victors were a three base hit by Woody Chartier and his third two-bagger of the night by Tom Fortney.

Barbecue Follows Game

The Comarco team rallied by scoring six runs in the top half of the sixth inning. Bill DeBejar, Comarco team coach who filled in for one of his absent players, led off with a double, and then scored on a two-base hit by Line Scanlon. Five more runs came across the plate for the Comarco team before the side was retired and it was decided to call it a night and get down to the business of polishing off the food and refreshments that had been brought out for the barbecue.

Leading hitter for the umpires' team was Tom Fortney, who had 4 hits in 5 times at bat and drove in 6 runs. Chartier and Haun also were 4 for 5 at the plate and accounted for 3 and 2 RBIs, respectively, while Jess Fortney's 2 hits in 4 at bats also drove in 2 runs.

DeBejar, player-coach, and Juanita Ricketts each had two RBIs for the Comarco

(Continued on Page 7)

Mussler and Doug Clayton, Jim Smith and Jim Mantz, Ernie Stevens and Lee Wertheimer, Joe Stricheck and Jim Dillon, Ed Nelson and Frank McElfish, and Helen Brooks and Gail Wright, two women golfers.

In the Peoria flight, for those without established Southern California Golf Association handicaps, the duo of Gene McGregor and Gene Collins placed first and selected as their prize two portable, black and white TV sets. Prizes also were awarded to the second through fifth place finishers in the Peoria flight. They were the husband and wife team of Ray and Cheryl Thurm, 2nd; Lee Bernhardt and his sister-in-law, Diane Bernhardt, 3rd; Al Fath and Kent Cummings, 4th, and Bill Mayhugh and Bert French, 5th.

Max Smith and Nancy Webster toured the 18-hole China Lake course with the lowest gross scores for men and women golfers entered in last weekend's Robinson Memorial Golf Tourney.

Support received from Ridgecrest



Doug's Corner

Streakers win intramural golf crown by a nose

The Streakers have won the championship of the recently-concluded Intramural Golf League here by barely beating out two strong challengers among the 10 teams competing.

Composed of Ed Nelson, Chris Peterson, Merrill Lloyd, Paul King, Gary Castor, Pearsie Wiggins and Roland Baker, the Streakers collected a total of 24 out of 36 points. In second place were the Hell If We Knows, with 23 points, and third were the Vampires with 22½ points.

The first and second place winners received gift certificates redeemable for merchandise at the pro shop of the China Lake golf course.

Intramural Football

Another organizational meeting of the NWC Intramural Football League will be held Sept. 2 at 5 p.m. at the Community Center, while competition is slated to begin Sept. 6.

A continuation of the discussion of rules, awards and officials which was begun at last Monday's meeting will be held at that time. At the moment, four teams have been organized, and two or three more are anticipated.

Winter Softball

Persons interested in competing in the NWC Winter Softball League are encouraged to attend an organization meeting at the Center gymnasium at 5 p.m. Tuesday.

The league is scheduled to begin play around mid-September.

Youth Soccer

Registration for the Youth Soccer League will continue for the remainder of this month at the NWC Youth Center for players seven years of age through the sixth grade.

Next Thursday, Aug. 25, another in a series of films of top world championship soccer matches will be shown at the Youth Center between 6 and 7 p.m. The film will show the final game of last year's European Nations tourney (Czechoslovakia vs. W. Germany).

Intramural Soccer

Plans are now being made for an NWC Intramural Soccer League to start play

(Continued on Page 7)

Cost-of-living annuity increase of 4.3% to be effective Sept. 1

The Civil Service Commission has announced that a cost-of-living (COL) annuity increase of 4.3 per cent will become effective on Sept. 1. This increase will be reflected in the Oct. 1 annuity checks.

The amount of this increase was based on a comparison of the Consumer Price Index (CPI) published for December of 1976 and the June 1977 CPI. The 4.3 per cent reflects the actual percentage increase in the CPI for June 1977 versus the December CPI of 1976.

The most recent COL was a 4.8 per cent increase in March 1977. The next annuity increase will become effective on March 1, 1978. The amount of that increase will be determined by a comparison of the CPI published for December of 1977 and the CPI published for June of 1977. If the December CPI reflects a percentage increase over the June CPI, then the March annuity will be raised accordingly. If there is no change in the CPI or a percentage drop, there will be no change in the amounts of annuities.

The law still guarantees that an immediate annuity which starts after the

effective date of a COL increase shall be no less than it would have been had it started on the effective date of that increase and that increase had been added to the annuity. Thus, for employees who retire no later than Wednesday, Aug. 31, the following comparisons will be made between:

(1) The amount of your earned annuity through the date of your retirement, plus the 4.3 per cent increase effective on Sept. 1; and

(2) The annuity based on your service and high-three average pay through Feb. 28, 1977, plus the 4.8 percent COL increase of March 1, 1977, and the 4.3 per cent increase which becomes effective on Sept. 1, 1977.

The annuity will automatically become the higher of the above comparisons. For the purpose of the above comparison, employees will be assumed to have met the age and service requirements for retirement on Feb. 28, 1977, even if they were not actually eligible to retire at that time.

For employees who retire after Sept. 1, 1977, and before March 1, 1978, their earned annuity as of the effective date of their retirement will be compared with the annuity based on their service and average high-three pay that existed on the date before the most recent COL increase became effective (Aug. 31, 1977), plus the 4.3 per cent increase of Sept. 1.

Employees who are interested in obtaining further information about retirement should contact the Personnel Management Advisor for their department to arrange for retirement counseling.

3 NWC scientists to present papers at SPIE symposium

Three NWC scientists are scheduled to present papers at the 21st International Technical Symposium of the Society of Photo-Optical Instrumentation Engineers which will be held in San Diego from Monday through Friday, Aug. 28.

Dennis K. Burge and Dr. Paul A. Temple will present a paper entitled "Studies of Polish Layers on Infrared Window Materials" during a session on optical polarimetry.

Dr. Victor Rehn, currently on a year's leave to the University of California at Berkeley, will discuss "Mirror Performance in the USSR Environment." Dr. Rehn's paper will be presented as a part of the session on optics in adverse environments.

Both papers will be available in the published proceedings.

Dr. Lonnie Wilson leaves China Lake for year-long assignment in Washington, D.C.

Dr. Lonnie Wilson, who is currently in the midst of a 3-week vacation trip, will wind up his travels in Washington, D.C., on about Aug. 25 — prior to beginning a year-long assignment with the Naval Air Systems

Command. Dr. Wilson, who has been head of the Electronics Branch of the Systems Development Department's Laser / Infrared Systems Division since 1974, will be joining a group under the direction of Dan Rosso, who is in charge of surveillance technology for NAVAIR.

He was accompanied to the nation's capital by his wife, Bonnie, and their two children — Meridith, who is 6 years old, and Andrew, age 5 months.

Dr. Wilson joined the ranks of Civil Service employees at China Lake in August 1966, after working for a year for the Bonneville Power Administration in Portland, Ore.

In 1968, he was granted an NWC fellowship to attend UCLA, which he did for three years before returning to China Lake to complete the writing of a dissertation that was the final step leading to the earning of a Ph.D. degree in electronic systems, which he received in 1973.

Prior to becoming head of the Electronics Branch, Code 3158, Dr. Wilson was employed as the A-7 TRAM (Target Recognition Multisensor) project engineer.



CONGRATULATIONS IN ORDER — A certificate of permanent appointment denoting his advancement to the rating of senior chief fire control technician (FTCS) was presented recently by Capt. Frederic H. M. Kinley, NWC Commander, to FTCS Macon Robinson. The latter, a 15-year veteran of active duty in the Navy, is currently attached to the Engineering Department's Fleet Engineering Division. He reported to the Naval Weapons Center in February 1976, following a tour of duty on board the guided missile destroyer USS John S. McCain. Prior to this latest advancement in rate, FTCS Robinson was a chief fire control technician (missiles). —Photo by Ron Allen

Helping hand given 4 men in trouble on Mt. Whitney

Two mountain climbers (one from Ridgecrest and the other from Trona), who were overdue following a weekend outing in the Mt. Whitney area, were assisted out of a predicament that developed when falling rocks severed their rope and they were stranded on a ledge.

The assistance was provided by a Navy helicopter, its pilot and crew from the airfield at the Naval Weapons Center, and by members of the China Lake Mountain Rescue Group (CLMRG).

The search was initiated when the mother of Trona resident Tom Cowie called Ron Atkins, CLMRG member, at around 11 a.m. Monday to inform him that her son and a climbing companion, Jeff Nutting, had failed to return from a trip to the Meysan Canyon area of Mt. Whitney.

Deputy sheriffs at Lone Pine were asked to check and, when they found a car that belonged to one of the two missing men still parked at Whitney Portals, the search effort was launched in earnest.

Atkins, operations leader for the CLMRG, organized an advance party composed of Dr. Carl Heller, B. J. Holden, Diane Lucas and Dave Brown, which left at around 4 p.m. Monday in a UH1N "Huey" helicopter piloted by LCDr. Dale Haan. Crew chief on the helicopter was AD1 Bill Hornbaker and the single crew member on board was AME3 Miles Ernst.

LCDr. Haan made an aerial search of the east face of Mt. Whitney and Iceberg Lake, landed in a couple of places to ask people on

the ground if they had seen the missing men, before the occupants of the Navy helicopter spotted a tent at Meysan Lake, where the "chopper" landed once again.

From the name on a jacket found inside the tent, it was determined that this was the missing men's campsite.

Getting low on fuel by now, the helicopter returned to China Lake leaving the CLMRG members to begin their task of trying to locate Cowie and Nutting. At this point, Atkins sent back word for a ground team of additional CLMRG members to join the advance party.

Lee Lucas, Don Harris, Frank Buffum, John Swanson, Mike Renta and Gene St. Denis drove to Whitney Portal and (with the exception of Harris, who handled communications from a Forestry Service helicopter pad in Lone Pine) hiked about 3½ miles up the Mt. Whitney trail to the rescue team's base camp.

Voice Contact Made

At about 10 p.m. Monday, voice contact was made with Cowie and Nutting, but since they weren't injured the effort to reach them was delayed until daylight.

On Tuesday morning, St. Denis led the CLMRG search party to the ledge on which the two men were stranded and set up one lowering point, while Atkins did the same a bit further down the steep, rock wall. Diane Lucas and Swanson also assisted in lowering Cowie and Nutting to a place where they could continue their descent safely by foot.

The stranded mountain climbers, tired, hungry and cold — since it rained intermittently during the morning on Tuesday — were given food and warm clothes before the Navy search and rescue helicopter from China Lake was called to pick them up.

Sierra Sands Section of ASQC plans next meeting Wednesday

The next meeting of the Sierra Sands Section of the American Society for Quality Control will be held on Wednesday evening at The Hideaway in Ridgecrest.

The featured speaker will be Dennis Farrell, head of the Systems Development Department's Operational Computer Systems Office. Farrell is involved in the documentation and evaluation of computer software and serves as deputy chairman of a NAVAIRSYSCOM panel on formulation of software development and acquisition policies and procedures.

The evening will begin with a social hour a 6, that will be followed by dinner at 7 p.m. Farrell's program will commence at 8 o'clock.

All interested persons are asked to contact Bill Cleveland for reservations by calling 446-3501.

Missing aircraft fire extinguisher is potential hazard

The possessor of a small hand-carried fire extinguisher which was stolen from an aircraft at Armitage Field recently should be aware that the device is potentially very dangerous.

Although the extinguisher looks like the safer, carbon dioxide type extinguisher, it is not. Concerned officials warn that after the missing device is partially discharged, it becomes an explosive hazard when subjected to sunlight or heat over 78 degrees F. Moreover, its super-cooled agent will cause burns in contact with human skin.

The bottle may be identified by the part number stamped on a metal tag which may or may not still be wrapped around it: MIL-E-52031B. It is manufactured by the General Fire Extinguisher Corp. of Northbrook, Ill. Anyone in possession of this device should turn it over to the China Lake Police Division immediately.

Ordnance Systems Dept. has varied product line . . .

(Continued from Page 1)

Air Force. This has resulted in a familiarity with the development cycle in both services and the cooperation needed to achieve milestones and test schedules.

Also located within the Weapons Systems Branch is the SLUF AE Program Office headed by Mike Aley. This office is currently developing the SLUF AE round for the U.S. Army Mobility Equipment Research and Development Center, Ft. Belvoir, Va. The round is part of the SLUF AE Mine Neutralization System and is intended for the primary purpose of providing the Army with an all-weather minefield breaching system with standoff capability.

SLUF AE rounds are ground-launched rocket-projected FAE warheads designed for ripple launch and to impact in a linear pattern. The SLUF AE development effort began in 1971 when the Army decided to utilize FAE expertise which existed at the Naval Weapons Center.

Terrain Denial Weapons Br.

The Terrain Denial Weapons Branch and Gator Program Office, (Code 3267), is headed by Moyle Braithwaite. The primary area of responsibility for this branch is aircraft scatterable land mines and associated delivery/dispersing mechanisms. Personnel within Code 3267 are experienced in conventional weapons development and management, land mine program development and management, safe and arm technology, electronic/electromechanical design of fuze components, warhead design, and rocket and launcher design.

The most significant branch program at present is the adaption of the joint service Gator scatterable mines to Navy and Air Force aircraft-carried dispensers. Future involvement related to the surface-to-surface delivery of mines is anticipated.

Dick DeMarco is head of the Bomb Development Branch, Code 3269. Currently active branch projects include the Air Inflatible Stabilizer for Mk 80 bombs, Quiet Bombs, and Advanced Cluster Weapons. The basic product of the branch is freefall weapons production documentation packages. There are general, mechanical and chemical engineers, and mechanical engineering technicians assigned to the Bomb Development Branch.

Wide Variety of Expertise

The experience and expertise of Code 3269 personnel is in the areas of program management / project engineering, terminal ballistics (fragmentation and hard target penetration), cartridge actuated or gas generated device design, test and evaluation of freefall weapons including environmental, handling, storage and logistics requirements and theoretical background in fluid mechanics, thermodynamics and heat transfer.

The Propulsion Systems Division is headed by Ray Miller. The six branches that make up this division provide a broad spectrum of technical expertise.

John O'Malley heads the Structures Branch (Code 3271), whose personnel provide structural support for various Center programs. These efforts include formulation of structural design criteria, loads development, stress analysis, dynamics analyses, and structural tests. Some Center programs being supported are HARM, SMARTROC, Sparrow, Harpoon, Alver, Pram, Moss Launcher, 5- and 8-inch guided projectiles, and mine dispenser programs.

Past Year's Programs

Code 3271 programs during the past year included ship fire protection, Coast Guard compartment fire tests, Hi G propulsion technology, ASROC vibration investigation, ceramic gas turbine engine, underwater noisemaker, and turbojet engine structures technology.

Personnel within the branch include engineers, consultants and technicians with most of their educational background and experience concentrated in the structures and dynamics areas.

Bob McCarten heads the Explosive and



PREPARING FOR VISCOSITY TEST — After being mixed, a sample of an inert solid propellant is being removed by Michael Knight (at left), an explosives worker in the Explosive and Propellants Processing Branch, in preparation for running a viscosity test. The lid of the 25 gallon mixer has been removed and is being held by Howard Gerrish, a chemical engineer. In the background (wearing a mask over his face) is Robert Tremonte, an explosives operator.

Propellants Processing Branch, (Code 3272). This branch has highly trained personnel who use unique equipment in the formulation, scale-up, processing and testing of propellants, explosives and pyrotechnics. The branch is divided into three sections.

The Formulation Section formulates new energy propellants and explosives. Polymer studies are performed in laboratories and are used with high energy plasticizers and solids to prepare small (1-pint) batches of propellant for evaluation.

Properties Analysis Section

The Properties Analysis Section initiates, develops and performs a wide variety of physical and chemical testing services on propellants, explosives and related materials. Special test equipment and facilities are available for handling and testing materials for the purpose of raw material analysis (particle size and chemical content) prior to processing.

This equipment and facilities are employed for quality assurance testing of the finished product, for screening new materials in terms of handling safety, and for defining the burning rate, tensile and other properties of new propellants and explosives over a wide range of temperatures and burning rates.

Some Explosives Production Done

The Processing Section has facilities that can be used in the research and development phase as well as the small pilot plant production phase of propellant, explosive and pyrotechnic development. Equipment is available to melt cast up to 1,500 lb. and plastic bond up to 800-lb. batches. This equipment also can be used to press 1/4 to 15 in. diameter pellets, and equipment is available for safely machining explosives and propellants. Extruded propellants, explosives and flares can be processed; the 15-in. horizontal extrusion press is the only one available on the West Coast.

In addition, the Processing Section also has available many other types of equipment that can be used to prepare raw materials (grinders, screeners, and drying ovens) that can be used to prepare hardware into which propellants and explosives are cast.

The Systems Technology Branch, (Code 3273) is headed by Bob Dillinger. This branch is well known for past and present propulsion system design and development efforts on numerous weapon systems for virtually all possible applications. The branch has maintained a strong and versatile capability in solid propulsion systems, but the past few years has also seen it emerge as a recognized leader in the fields of vertical launch technology, thrust vector control technology, and aircrew

designs and develops propulsion systems for weapons and, in addition, monitors the development and initial production of such systems by contractors. This effort requires an optimization of the case design, solid propellant charge, igniter and nozzle as well as auxiliary devices such as safe-arm and thrust vector control.

This optimization is closely coordinated with the other elements of the missile system since length, weight and launcher design parameters impose constraints which require tradeoffs between the propulsion system and the warhead, fuzing and fire control, and the guidance systems. Safety of design and reliability of the motor are primary considerations.

Initial feasibility of a new concept has been demonstrated in successful firings of the Air-Launched Low Volume Ramjet booster. In this concept the booster motor becomes the ramjet burner chamber after completion of the boost phase.

Other Areas of Work

Other areas of branch expertise include demonstration of design, development and experimental production, as was performed on the SMARTROC booster (designed to launch the guided "Smart Bomb" from a ship); and monitoring of propulsion development as was conducted for the HARM (high speed anti-radiation) motor. This work was performed by Thiokol with final preparation for firing at NWC. Careful planning, good design, and a thorough evaluation characterized these programs.

The Applied Technology Branch (Code 3275), headed by Ron Dettling, conducts exploratory and advanced development in the area of power sources and energy conversion. In addition, the branch is involved in programs in laser vulnerability of propulsion components, pulsed power technology, and provides production support as appropriate in these areas.

Laser Radiation Vulnerability Analyzed

Exploratory development programs in power sources and energy conversion include turboalternator evaluations, high pressure stored gas system development, solid propellant gas generator development and qualification, and submarine external stores launcher development. Currently being investigated, both analytically and experimentally, is the vulnerability of propulsion components to laser radiation.

Pulsed power technology, a relatively new area of work, is concerned with technology and applications of high voltage, high-current, short-pulse electrical power sources and conversion devices. The efforts of Code 3275 personnel range from the near-research level to production support with experience in both hardware and analysis. Past efforts in liquid, hybrid and solid propulsion, as well as high energy laser devices and special purpose vehicle design, have provided an expertise that remains available.

Thermal Research Branch

The Thermal Research Branch, (Code 3276), headed by Jack Pakulak, has both the capabilities and the facilities for determining the thermal properties of explosives and propellants ranging in size from milligrams to full-scale. Differential thermal analysis (DTA) and other laboratory techniques are used to predict the exothermic reactions of these compositions and to provide the data for computation of the material's critical temperature.

Cook-off tests are performed with 1 to 1000-lb. propellant or explosive samples to verify the laboratory results. Data from thermal analysis studies and field testing of explosives and propellants are helpful to engineers and the military in the design and use of effective and reliable weapons systems.

From studies performed on the chemical and thermal stability properties of explosives, propellants and other hazardous materials, it is possible to identify means by which the cook-off time can be extended and the severity of the cook-off reaction can be reduced for particular weapons. The deck-

(Continued on Page 5)



SAFETY FIRST — Charles Mitchell, an Explosive Technology Branch firing officer, checks firing line connections at a safety transfer panel.

Bluejacket . . .

(Continued from Page 1)

working for three years there as a brick mason. Following completion of boot camp at San Diego, he spent the next four years aboard the USS Alamo, a landing ship dock stationed out of Long Beach. He left the service in 1971 and went to work for an oil company in Bakersfield, but resumed his Navy career in 1973.

For two years prior to his arrival at the Naval Weapons Center, BM2 Stearman was on the crew of the Elk River IX501, an experimental diving vessel operating from the Naval Undersea Center, San Diego. He had begun there as a deck seaman and had become a second class petty officer by the time he reported at China Lake in March 1976.

First Assignment Here

His first assignment here was as a duty BEQ supervisor, and, after satisfactorily completing BEQ Management School in July 1976, BM2 Stearman was given the duties of custodial force supervisor. He began his present assignment in March of this year.

BM2 Stearman and his wife, Denise, live in Navy housing with their children, Thomas, 4, and Tamara, 19 months. He says he spends most of his free time fishing and camping at Lake Isabella, and primarily, baby sitting.

For his selection as Bluejacket of the Month, BM2 Stearman and his wife will visit Bakersfield soon under the sponsorship of Paul Meyer of Bakersfield Welding Supply. They will tour the city, have their meals and motel room paid for there, and, from Desert Motors in Ridgecrest, will receive the loan of a new Ford automobile to use in making the trip.

Code 32 renamed . . .

(Continued from Page 4)

fire incidents aboard the USS Forrestal (1967) and the USS Enterprise (1969) served to demonstrate the need for this kind of work.

Personnel from the Thermal Research Branch have provided knowledge and expertise to the U.S. Attorney at Sacramento, Calif., in preparation for the court trials resulting from the munitions train explosions at Tobar (Nevada), Roseville (California) and Benson (Arizona).

In addition, effective technology transfer was provided to a civilian agency, the U.S. Department of Transportation's Federal Railroad Administration, for the safe transportation of hazardous material. This included recommendations for the proper design of new equipment in rail cars and the modification and utilization of existing rolling stock.

Studies Performed for JPL

Studies also were performed for the Jet Propulsion Laboratory on the utilization of dry-heat sterilizations of rocket motors which may be used on planetary lander missions.

As evidenced by the foregoing information, the personnel of the Ordnance Systems Department are multidisciplined. Utilizing this resource, the department will continue to develop and expand its product areas to meet new requirements of the Center and the Navy.

The range of scientific and technological expertise available within the Ordnance Systems Department, as well as the unique facilities, provides a basis for many new areas of endeavor.

Reed honored . . .

(Continued from Page 1)

organization of the Congress, as well as an understanding of the legislative process and the factors and forces which influence it.

In addition, they will obtain a Congressional perspective of national and local issues and executive branch operations, along with a better understanding of the dimensions and complexities of Congressional responsibilities and their relationship to the total process of government.

Following his participation in this long-term training program, Reed will be returning to the Naval Weapons Center.



F.E.W. ELECTS OFFICERS — Charlotte Paulsen (at left), has been elected to serve as president of the newly-formed Indian Wells Valley Chapter of Federally Employed Women (F.E.W.). Other officers are (l.-r.) Wanda Clark, secretary; Gayle Ammerman, treasurer, and Gizelle Matulef, historian. One other officer, Diane Johnson, the vice-president, was unable to be present for the photo. Mrs. Paulsen is employed as an accounting technician in the Office of Finance and Management's Cost Accounting Branch. —Photo by Ron Allen

5 Centerites assist with photo coverage of space shuttle flight

Five employees of the Naval Weapons Center were present last Friday morning at Edwards Air Force Base to assist with photographic coverage of the widely-heralded first free flight of the space shuttle Enterprise.

Under arrangements made with the Naval Weapons Center and the KABC (Channel 7) television station in Los Angeles, two M-45 camera tracking mounts were set up on a desert peak located about 15 miles southeast of the takeoff runway used by the Boeing 747 that carried the Enterprise aloft and some 13 miles from the space shuttle's landing on a dry lake bed.

Bill Hattabaugh, NWC's acting Test and Evaluation Director, accompanied the camera crew, which was led by Dick Krausman, head of the Range Department's Air Operations Branch (Code 6221).

The photo theodolite range trackers were John Talley and Phil Lilly, both from Code 6221, while Tom Moore, an engineering technician from Code 62's Range Optical Development Branch, went along to make sure the M-45 tracking mounts were in good condition and adjusted the electrical power to insure the smoothest tracking capability possible.

Lt. Maloof takes over duties of aide to NWC Commander

Duties of aide and special assistant to Capt. Frederic H. M. Kinley, NWC Commander, were taken over recently by Lt. James M. Maloof.

The latter, who reported here following a tour of duty as flight deck officer on board the aircraft carrier USS Franklin D. Roosevelt (homeported in Mayport, Fla.), is a veteran of nine years' service in the Navy.

He has replaced Lt. Phill Fossum, former flag lieutenant to Rear Admiral R. G. Freeman III.

A 1968 graduate of the University of Washington in Seattle, Lt. Maloof entered the Navy via the Aviation Officer Candidate. School. After flight training at Pensacola, Fla., he received his "wings of gold" in June 1970 and was transferred to Cecil Field in Florida for training as an A-7 Corsair replacement pilot.

He remained at Cecil Field from March 1973 until November 1975, serving as an instructor-pilot, prior to joining the crew of the Aircraft Carrier Roosevelt in January 1976, and was on board the FDR during a cruise in the Mediterranean from October 1976 to April 1977.

Lt. Maloof was accompanied to China Lake by his wife, Anne, and their son, Joshua, who is 4 years old.

The M-45 tracking mounts are extensively modified B-29 bomber gun turrets on which cameras used for high speed, air-to-air tests over the Naval Weapons Center ranges, are mounted.

The camera operated by Lilly was equipped with a 100-in. lens that is used during tests here, while Krausman used a zoom lens that was the property of KABC. Both were intended as backup in the event of problems with the cameras carried aloft in the chase aircraft which accompanied the historic flight.

The M-45 mounts with their cameras were set up on Wednesday of last week, tested the following day, and camera crew then left here last Friday shortly after 4 a.m. and was set up and ready at 6 a.m. for the first free flight of the space shuttle, which began with take-off of the jumbo jet that carried it aloft at 8 a.m.

At the controls of the Enterprise on its first, brief free flight were Astronauts Fred Haise, 43, and Gordon Fullerton, 40.

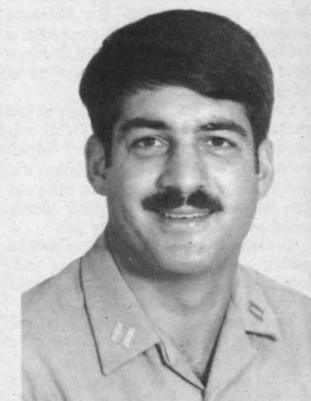
College offers course in military history

Cerro Coso Community College has announced a new course to be offered this fall semester beginning Sept. 6. Class will be held on Thursdays from 7 to 8:50 p.m. at Burroughs High School.

The course, entitled "Military History of the World," will provide a military view of the effects of warfare on civilization: the problems it has solved and created.

Lt. Col. Lloyd Brubaker, U.S. Army Reserve, commander of the 6303rd Reserve Training Unit, will be the instructor along with members of this local Army Reserve organization.

Registration will held at the college from Aug. 29 to 31 from 2 to 6 p.m.



Lt. Jim Maloof

Spare translator used to bring in added TV channel

Members of the Indian Wells Valley TV and Radio Booster System Committee decided at last week's meeting to make use of a spare translator unit in order to rebroadcast the TV programs of Television Station KWHY (Channel 22) in Los Angeles.

According to Jim Rieger, a member of the committee, local reception of Station KWHY, can now be picked up locally via Channel 49 by those who have a TV antenna oriented southwest in the direction of Laurel Mt.

The decision to rebroadcast Station KWHY programs (which feature stock market reports and the news during the day and foreign language programs daily after 6 p.m.) was made as an interim measure that is subject to change depending upon the desires of local area residents who are members of Indian Wells Valley TV Booster, Inc.

Viewers who would prefer some other use of this spare translator, which is available for use in the event of problems with the reception of one of the major TV channels, are encouraged to contact the TV Committee by writing to TV Booster, PO Box 562, Ridgecrest.

Other possibilities are Los Angeles TV channels 34 and 52, which offer Spanish language and cultural programs, and mostly children's programs, respectively; Channel 58, an educational TV station in Los Angeles; or Bakersfield TV Channels 23 and 29, which are the NBC and ABC affiliates in that area.

Rieger also reminded local area residents that contributions continue to be needed for maintenance and improvement of the local television and FM radio booster system.

A little more than \$14,000 has been raised toward meeting the goal of \$26,000 that was announced when the fund drive began last January.

Those who are receiving the benefits of the TV/FM radio booster system, but haven't yet contributed financially, are encouraged to do so by sending their donations of \$10 per household or \$5 per individual to the above listed PO box. Make checks payable to "TV Booster."

Registration open for class slated in Time Management

Enrollment is now open for a class in Time Management that will be held at the Training Center from 7 to 10 p.m. on Thursday, Sept. 8, and from 8 to 11:30 a.m. on Friday, Sept. 9.

Instructor for the course will be Dr. James Schmook, vice-president of Training and Consulting Services for CRA, Orange, Ca.

Specific topics that will be covered include saving time by learning from experience, time wasters, goal setting, time savers, implementing time management plans, and Flexitime—uses and abuses. The course is intended for the benefit of supervisors, but will be open to other employees as space is available.

Employees interested in attending this course must submit an enrollment form via proper department channels in time for it to reach Code 094 by Sept. 2.

Schedule physical exams for school children now

Military personnel who have youngsters who will be entering either kindergarten or the first grade in the fall are reminded that a physical exam for their child is mandatory prior to the start of the new school year in September.

An appointment for such an examination can be made by calling the Pediatric Clinic at the Naval Regional Medical Center's Branch Hospital, ph. 2911, ext. 40.

Parents' cooperation is requested in bringing their child in for this examination, which is a prerequisite for enrollment in public school.