

### Ice cream social to be held July 15 on lawn at chapel

Plans are well under way for the Protestant Women of the Chapel's annual ice cream social, which will be held on Tuesday, July 15.

This popular event, which features ice cream, cake, pie, coffee and punch, accompanied by music and games, will be held on the lawn of the All Faith Chapel from 6 to 8:30 p.m.

Donations of 75 cents for adults and 35 cents for children 11 years of age and under will entitle patrons to one serving of everything. For those who might want second helpings, the charge will be 40 cents for a single item, with the exception of coffee, which will be sold for 5 cents per refill.

Money raised by the ice cream social will be donated to the Protestant Congregation's mission projects. The PWOC also hope to bring in additional funds at the social by means of sponge throw and dunking pool booths. At these two fun spots, patrons will pay 25 cents per turn for a chance to dunk a willing victim into a pool, or smash another willing fund-raiser with a sponge in the face.

The missions aided by the PWOC are the Bakersfield Rescue Mission and Friendship House, also in Bakersfield; the Leudenia Medical College, in India, and an emergency fund for local families in need, the Home Mission project.

Betty Jane Leonard and Gloria Erickson, co-chairmen of this event, invite all local residents to participate in the social. "It's a good way to meet your neighbors and do a good turn at the same time," Mrs. Leonard said.



**LUAU HELD** — A total of 176 persons attended the South Sea Islander Luau, held last Friday night at the Commissioned Officers' Mess. The event signalled the closing of the COM for repairs and renovations during the month of July. When the club reopens on Aug. 1, it will be under new management. In addition, a new chef will be at work in the kitchen. During the Luau, patrons were treated to a floor show staged by George Howes and the Isle of Paradise dancers. Special treats, such as the Polynesian version of the hula-hula (above), were performed during a mid-evening show. During the month long closure, the swimming pool and snack bar at the COM will remain open.



**A TENDER MOMENT** — Jesus, portrayed by Scott Miller, and Mary Magdalene, enacted by Angelique Lindsey, share a tender moment during "Jesus Christ Superstar," the next CLOTA musical production. The show will open on Thursday, July 10, at the Burroughs High School Lecture Center. It also will be presented on July 11, 12, 13, 17, 18 and 19.

### 'Superstar' to open on July 10

The Community Light Opera and Theater Association (CLOTA) production of "Jesus Christ Superstar" will open next Thursday, July 10, at 8:15 p.m. at the Burroughs High School Lecture Center.

Seven performances of this popular rock opera have been scheduled. The curtain will go up on the remaining shows at 8:15 p.m. in the Lecture Center on July 11, 12, 13, 17, 18 and 19.

Tickets are priced at \$1.25 for students and military enlisted personnel, and \$2.50 for general admission. They can be obtained in advance at the Gift Mart in Ridgecrest or at the Station Pharmacy, as well as at the Lecture Center door on performance nights. In addition, the ducats may be purchased from members of the cast.

Florence Green, director, has lined up a dazzling array of talent from among local residents to stage "Superstar." Scott Miller, a college music student and local instructor of guitar, will portray the title role. Rick Howell, who has been seen in many different productions in the valley, is Judas Iscariot. Angelique Lindsey, also well known in the valley, will play Mary Magdalene.

Pontius Pilate will be played by Rick Menz. The roles of Simon Zealotes and Peter will be done by Mike Walker and Mitch Lyon, respectively. Herb Childers, well known in local theater, is King Herod. The deep-voiced Caiaphas will be performed by Lloyd Bailey, and John Woodridge will be seen in the role of Annas. Dale Shahan, Richard Paulsen and John Clark will play the part of priests, and Chris Davis, Larry Carter, Ray Hocker, Jack Lindsey, John O'Guin, Larry and Louis Renner, Greg O'Guin and Bob Seeley will portray the roles of apostles.

Chorus members in the production are Susanne Besancon, Kim Mayne, Liane Breitenstein, Cheryl Bruce, Stella Pakulak, Jodi Post, Karin Randle, Joan Renner, Kelly Smith, Barbara Van Buskirk, Norman Leggett, Gail Connell, Caren Diebold, and Every Jo McClendon.

The "Tormentors," a special group of dancers, will be Dori Morrione, Jim Nicholson, Cindy Cain and Rhonda Knutsen. Mike Hastings, Walt Koerschner, Craig Post and Kevin Specht will be seen in the role of guards.

Helping Mrs. Green are Russ Parker, as musical director; Liz Babcock, assistant director; Jim Werle, technical director; Mary Eisel and Sue Fisher, rehearsal pianists; Vernon Green, lighting director; Dick Wisdom and John Anderson, lights; Vivian Childers, costumer; Bruce Amos, sound, and Shari Hamre, John Dunker and Ray Hocker, publicity.

In addition, Mary McMullen and Mykle Loftus are in charge of properties and Maren Donohue will handle programs. Choreographers for the production are Georgia Knutsen and Dori Morrione.

### Citizens reporting speeding violations to local police must have detailed information

Any person on the Naval Weapons Center who wants to report speeding automobiles, incidences of reckless driving, hit-and-run accidents, etc., can do so by calling the NWC Police Division — ext. 3323 — or by coming into the police station located on Halsey Ave. near Lauritsen Rd.

However, Steve Kaupp, chief of the Police Division, pointed out that those wishing to make such complaints should be prepared with a wealth of information.

"They should note as many details of the incident as possible. This includes the location of the violation, time of day, a description of the violation, license number of the vehicle, make of the car and color, and a description of the driver, if possible," he said.

In addition, Chief Kaupp noted that persons making such a complaint should be aware that they might be called upon in the NWC Traffic Court to act as a witness against the violator.

In the case of a hit-and-run type of accident — even when only property is damaged — witnesses should be aware that

state laws have been violated in addition to Center traffic rules.

"In that event, the witness will probably be called upon to testify in criminal court outside the Center," Chief Kaupp pointed out.

### Supervisors' course now being offered

Enrollment applications, which can be submitted at any time, are now being taken for a self-instructional course for first line supervisors.

The course, entitled "Man on the Line," consists of audio-visual presentations integrated with workbook exercises. It is intended for individual use, followed by discussion with others.

The program is composed of five units — each one focused on a major problem area as identified by foremen — and each unit consists of a filmstrip, audio cassette and workbook.

Interested Center employees should submit an NWC enrollment form to Code 654 via their department office.

## 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.

FRI. 4 JULY

**"CONRACK"** (106 Min.)  
Jon Voight, Paul Winfield  
(Human Interest Drama) An autobiographical account of Pat Conroy's adventures as a white grade-school instructor attempting to instill education into a pathetically ignorant assemblage of deprived black children. Their dilapidated, two-room school house is located on a remote South Carolina island. (PG)

SAT. 5 JULY

**"IMAGES"** (104 Min.)  
Susannah York, Cathryn Harrison  
(Drama) Susannah York, apparently happily married, wanders off into dreams and visions of past lovers who won't leave her alone. Her old lovers pop up in various rooms. It soon becomes a guessing game as to which is dream and which is reality. Casual nudity may offend some. (R)

SUN.-MON. 6-7 JULY

**"THE FOUR MUSKETEERS"** (107 Min.)  
Oliver Reed, Michael York  
(Comedy Adventure) All of the sword play, acrobatics and energy of the earlier film is present in this sequel to the "Three Musketeers." Stuppid comedy accompanies rousing adventures as the "Musketeers" outwit the Cardinal's spies and duel with his guards. (PG)

TUES. 8 JULY

**"SEVEN ALONE"** (97 Min.)  
Dewey Martin, Aldo Ray  
(Drama) In the early 1800s, Dewey Martin, a farmer pursued a wanderlust to homestead in Oregon. He sold his farm, packed up his wife and six children and (accompanied by some of his neighbors) started westward with a wagon train. Misfortune follows the family as the father dies from a stab wound inflicted in a fight with Indians, and mother dies delivering her seventh child. (G)

WED. 9 JULY

**"LOVIN' MOLLY"** (92 Min.)  
Anthony Perkins, Blythe Danner  
(Drama) In Bastrop, Tex., in 1925, Anthony Perkins and Beau Bridges are friends and rivals for Blythe Danner, a blonde who loves them both. (R)

THURS. 10 JULY

**"LEGACY OF BLOOD"** (88 Min.)  
Merry Anders, John Carradine  
(Horror) An eccentric, old multi-millionaire leaves his last will on a tape recorder. Supposedly dead, he announces the conditions of his will via the tape. The last one of his family or servants who survives will inherit the entire fortune.

FRI. 11 JULY

**"THE SILENT ONE"** (118 Min.)  
Lino Ventura, Robert Hardy  
(Drama) Anton Haliakov (Lino Ventura) belongs to a delegation of scientists sent to London on a study program. One evening after an official function, the scientist's car is driven off the road by another car. The purpose of the mock accident and kidnapping was to get Haliakov to give the names of two English physicists who are traitors employed by the U.S.S.R. (PG)

### Youth Center matinee

The Youth Center matinee movie for Wednesday, July 9, is "The Misadventures of Merlin Jones." The time for screening is 1 p.m. at the Center Theater.

The film stars Tommy Kirk, Annette Funicello, Leon Ames and Stuart Erwin. It is produced by Walt Disney.

Admission is 25 cents for all paid-up members of the Youth Center. All others must pay 50 cents.

U.S. Government Printing Office: 1975 - 494 / N0328

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To: \_\_\_\_\_

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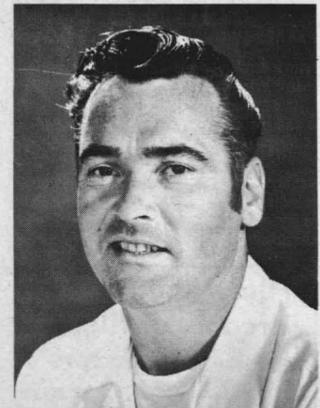


### MS1 Fitzpatrick gets Bluejacket of Month honor

There is an old saying well-known among veterans—"The service will either make you, or break you."

July's "Bluejacket of the Month" may not be aware of the saying, but he's a living example of its veracity.

Born the 12th child in a family of 13 in South Philadelphia, Pa., MS1 John J. Fitzpatrick



MS1 John J. Fitzpatrick

patrick dropped out of school in the ninth grade and went to work to help support his huge family. "I was in a lot of trouble back in those days, and seemed to be heading for a wayward life," he recalled.

One of his sisters lived in Hayward, Calif., so he headed west. That's when he decided to join the service. "At first, I was going to join the U.S. Army, but then I saw the motion picture, 'Mr. Roberts,' and I decided the Navy was what I wanted," he said.

MS1 Fitzpatrick was 17 in 1955 when he enlisted. The trouble behind him, he found a home and he's been happy since.

In his nearly 20 years of service, the July Bluejacket has served only three years of

(Continued on Page 4)



## nwc rocketeer

Naval Weapons Center  
China Lake  
California

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### Scientists aid in cancer research work

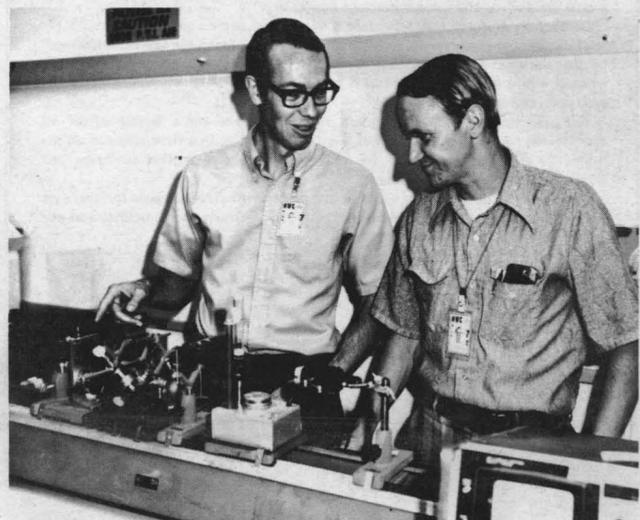
#### Instrument used for tissue colony count to be built

Timely information is critical in the medical diagnosis and treatment of leukemia.

Because of this, scientists are always looking for faster, better diagnostic aids and methods to perform cancer research. A new device, called an Automatic Tissue Culture Colony Counter, is expected to speed up the process in checking the growth of stem cell cultures (samples taken from the bone marrow of cancer patients). These are being studied at the National Cancer Institute, in Washington, D.C.

The current method is to painstakingly check the cultures by hand. They are housed in hundreds of petri dishes (a covered container). The technician is looking for colonization — a process whereby the stem cells multiply. The more colonization, the more sign that a treatment is working.

Scientists at the National Institute of Health (NIH) developed a prototype model of the Automatic Tissue Culture Colony Counter, based on the rotating reticle concept employed in several Navy missile guidance systems. A feasibility model of this instrument was constructed at NIH with the assistance of NWC personnel, notably Dr. Ronald Atkinson who is temporarily assigned to the National Heart and Lung Institute in Washington as a researcher. Tests performed using this instrument



**BENCH MODEL COMPLETED** — Dr. Doug Sticht (r.) and Jim Clark examine a recently completed bench model of the colony counter that is being perfected and fabricated at NWC for the National Institute of Health. The instrument will assist in the counting of stem cell cultures in the battle against leukemia.

led the researchers to believe that an improved instrument should be developed.

A prototype laboratory instrument was constructed and evaluated, employing bone marrow granulocyte precursors cultured in turbid semisolid mediums — both with and without stimulating factors. The prototype

instrument was used to identify the same stem cell culture growth in a four-day period that previously took a human observer 10 days to ascertain.

Once it was determined that a reliable, automatic instrument to do this colony counting would have the potential of quantifying tissue culture growth before such growth is evident to a human observer, the National Cancer Institute requested that NWC handle the design and fabrication of a

(Continued on Page 3)

### 4th of July fete to include picnic, games, fireworks

The second annual Independence Day old-fashioned picnic, a community affair planned for all residents of the Indian Wells Valley and surrounding areas, will be held tomorrow at the Desert Empire Fairgrounds in Ridgecrest.

Gates at the fairground will open at noon, while the bring-your-own-food picnic is scheduled to get under way at 3 p.m. on

A special added attraction at tomorrow's Independence Day picnic will be the appearance of Bobbie Clements, 28, a motorcycle stunt rider from Macon, Ga., who has volunteered to perform in an effort to help raise money to cover the expenses of a fireworks display.

Clements will stage his daredevil act at around 8 p.m. at a location that had not yet been determined prior to press time for The ROCKETEER, and the fireworks show will get under way shortly thereafter at Mirror (dry) Lake on the Naval Weapons Center.

Clements' feat of derring-do calls for him to rev up his motorcycle, race toward a ramp and (while airborne) leap over a car and through a 12-ft. high fireball.

Donations collected from those on hand to observe Clements' thrilling ride, in addition to contributions already received from the Exchange Club, the Continental Telephone Co., and Ken Bird Oldsmobile, as well as other local business places and individuals whose help was received after press time for the week's issue of The ROCKETEER, will enable the July 4th fireworks display to be presented.

July 4th. Those attending are urged to look for signs indicating the locations on the fairgrounds where former residents of other states will congregate, and then join the folks from their own home state.

According to Rae Leonard, chairman of the IWW Independence Day Council, a variety of food and refreshments also will be on sale at booths operated by local veterans and fraternal groups.

Beginning in the late afternoon, there will be games and contests galore. On tap will be a baby contest for youngsters up to three years of age. This event is being sponsored by the Moose Lodge. From among the entrants, there will be prizes for the prettiest, loudest and fastest-moving tiny tots. In addition, a king and queen of the younger set will be selected.

The High Desert Detachment of the Marine Corps League will sponsor a coin-in-a-haystack contest, and a blindfold boxing event will be staged by the American Legion.

Other activities planned, and the sponsors of each, are: A greased pole climb, Veterans of Foreign Wars; a watermelon-eating contest, Lions Club; a knobby knees contest, Knights of Columbus; a kite flying contest, Optimists Club, and a beer-drinking contest, sponsored by the Ridgecrest Chamber of Commerce.

In addition, there will be two-legged races, sack races, a tug-of-war, and a golf-putting contests, as well as competition in horseshoe pitching, Frisbee throwing and hula hoop twirling.

The Rebekkah Lodge will be in charge of a marble-in-a-spoon race and there will be a checker contest for the oldsters, sponsored by the Odd Fellows Lodge.

For those whose appetites are whetted by all this activity, hot dogs and hamburgers will be sold at booths operated by members of the American Legion and Moose Lodge, respectively; ice cream will be available at the Fleet Reserve booth; members of the Order of DeMolay will operate a soft drink concession, and beer will be sold at the Ridgecrest CoC booth.

### NWC taxi service to end on July 11

Faced with the problems of staying within increasingly stringent budget constraints, and at the same time responding to required changes in personnel ceilings, the NWC Public Works Officer announced that the taxi service provided Center personnel for official business transportation within the NWC complex will be discontinued as of the close of business next Friday, July 11.

The decision to call a halt to the taxi service is just one of several actions being taken to "hold the line" on Center operating costs.

In place of the taxi service, it is proposed that some additional "self-drive" type of transportation be made available to employees who have priority needs for special runs within the Center.

Details on this matter will be announced later, when a determination on the operating inventory of vehicles for the Center has been established.

Editorial

The Meaning of July 4

Every nation on the face of the globe has its birthday. What, then, is so unusual, so markedly different about July 4 that it should merit such uncommon demonstrations of distinction?

The explanation lies in the fact that the day not only marks the birth of a nation but also commemorates the birth of a concept—the concept that all men are created equal, that a people have the right to be free and to install a government of their own choosing, and that each individual has the right to life, liberty, and the pursuit of happiness.

This blueprint for democracy that the Founding Fathers drew up is a legacy to a grateful world, not to Americans alone.

But it is not enough to attain liberty. It must be protected vigilantly, nourished lovingly, maintained unblemished and without compromise, if it is to be kept alive for posterity. This basic truth has been the cornerstone of American policy from the very beginning of the Republic. It is because of this fundamental belief that Americans have shouldered arms in defense of freedom over the past two centuries.

The inescapable truth is that, 199 years later, freedom still demands a willingness of individuals to make sacrifices for it. Men who value their freedom must be prepared to resist any threat to it, whatever form the threat takes, and whenever and wherever it occurs. Certainly, life, liberty, and the pursuit of happiness are as overwhelmingly precious now as in 1776.

Democracy maintains that the state is the servant of man and that man's liberty is of paramount importance, that the state cannot demean the individual without by that very act degrading itself. Democracy restrains individual freedom only when it would infringe on the rights of others, impair the common welfare, or endanger national security.

The final words of the Declaration of Independence are a testament for all Americans. "And for the support of this Declaration, with a firm reliance on the protection of Divine Providence, we mutually pledge to each other our Lives, our Fortunes, and our sacred Honor."

Today, we can do no less than uphold that pledge with fixed purpose for, were we to do any less, our lives would be meaningless, our fortunes valueless, and our honor stained.

PROMOTIONAL OPPORTUNITIES

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 452, Ext. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 454 or 457). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of these 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-116, while those for all WGL and W5 positions are defined in CSC Handbook X-118.

Woodworker, WG-4604-4, JD No. 451, Code 25941—This position is located in the packing section of the Material Division in the Supply Department. The incumbent performs a variety of tasks including constructing, repairing and modifying boxes, crates and similar containers of non-standard design. Sorts, consolidates, packs and labels fragile, heavy, bulky or irregularly-shaped materials, equipment, inert ordnance and accessories for shipment or storage.

Clerk (Typing), GS-301-5, PD No. 7525016, Code 252—This position is located in the Procurement Division of the Supply Department. The incumbent is responsible for receiving visitors and calls, obtains and presents information for division reports, maintains division files. Job Relevant Criteria: Ability to type efficiently and accurately. Ability to meet deadlines under pressure. Reliability and dependability.

File applications for the above with June Adams, Bldg. 34, Rm. 212, Ph. 2371.

Supervisory Physicist, GS-1310-13, Supv. General Engr., GS-801-13, or Supv. Electronics Engr., GS-855-13, PD No. 7551077, Code 5152—This position is that of head of the Electronics Branch in the Air Weapons Department. The incumbent is responsible for the technical direction and control of all branch efforts. He supervises approximately 14 engineers and technicians up through the GS-13 level. He initiates projects, suggests technical approaches, assigns personnel commensurate with project size, schedule and allocated funds. Job Relevant Criteria: Ability to direct others in achieving novel design solutions in RF design and development and video and optical signal processing. Experience in RF design and video and optical signal processing. Experience in supervising others.

File applications for the above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.

Supervisory Research Chemist, GS 1320-14, PD No. 7560012, Code 6052—This position is that of head, General Research Branch, Chemistry Division, Research Department. Conducts research in the advanced and optical spectroscopy, electrochemistry, physical chemistry of solutions, and photophysics. Serves as advisor to other personnel in the division at NWC and to key personnel in other activities. Coordinates the activities of his research branch and reviews the work of the individuals in his organization. Job Relevant Criteria: Thorough and comprehensive training and background in chemistry and physics as well as a specialized knowledge of mathematical evaluation of data, demonstrated ability to work in different areas of chemistry, demonstrated ability to perform research as evidenced by such things as, publication records, awards and other recognition of research contributions. Ability to supervise.

Promotion Potential: GS 15.

Clerk-Typist, GS 322-3, 4, PD No. 7235172AM1, Code 3131—This position is located in the Surface Missiles Department, Mine Warfare Branch. Incumbent performs clerical duties such as typing, filing, answering phone, arranging meetings, receiving and screening visitors and phone calls. Incumbent receives daily mail and routes to proper individuals, prepares timetables, personnel forms, travel orders and travel itineraries. Job Relevant Criteria: Ability to type rapidly and accurately. Ability to deal effectively with people. Must have a good working knowledge of grammar, punctuation, and Navy and NWC format and procedure.

File applications for the above with Tina Lowe, Bldg. 34, Rm. 206, Ph. 2723.

Firefighter, GS-081-5, PD No. 7284014, Code 842—This position is located in the Fire Division of the Security Department. Major duties include driving and operating structural pumps, and any type crash fire trucks, responding on ambulance calls as either driver or attendant, inspection of Center's buildings and property, and conducting training classes for trainee firefighters. Job Relevant Criteria: Knowledge of locations (streets, water distribution; alarm/detection systems, buildings, contents/layout, etc.). Ability to operate firefighting apparatus and equipment (trucks, pumping systems, nozzles, rescue equipment). Driving ability: proper use of gears, clutch, and brakes; demonstrates safe, smooth, and effective operation of vehicles. Knowledge of firefighting hydraulics and ability to apply it to firefighting situations. Knowledge of fire prevention practices with regard to building inspections and ability to identify fire hazards, and knowledge of reference sources. Firefighting knowledge—knowledge of fire, origin, and techniques of extinguishing fires. Ability to accept responsibility and carry out assignments with minimal supervision. This announcement will be used to establish the promotion register for Firefighter GS-081-5B which will remain in effect until Jan. 1976.

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

Package Store to close The Consolidated Package Store, located off Halsey Ave. near the Public Works compound, will be closed tomorrow and Saturday because of the 4th of July holiday. The store will resume its regular hours of operation at 11:30 a.m. on Tuesday.



YANKEE DOODLE WHALE — Ringing the Liberty Bell is no problem for Shamu the killer whale, who hurls his two-ton body out of the water in a 15-ft. leap. Shamu may be seen on Navy Night at San Diego's Sea World tomorrow in his new show, "Yankee Doodle Whale," a warm and witty historical spoof celebrating this nation's Bicentennial. Reduced price tickets for Navy Night may be purchased at the Community Center. They will not be sold at Sea World. Regularly priced \$6.25 adult tickets are discounted locally to \$3 and the \$3.50 children's ducats (through 12 years of age) are on sale for only \$2.

Film about man's dreams of flight set by stargazers

The China Lake Astronomical Society will show a color film entitled "Man's Reach Should Exceed His Grasp," at the group's next meeting on Monday, beginning at 7:30 p.m. at the clubhouse, 401-A McIntire St. The film depicts man's ancient dream of flight, from the Wright Bros. at Kitty Hawk to the landing on the moon. Included in the movie will be information on future missions to the planets.

Ronald Hise, a club member, will discuss setting circles on telescopes during a talk entitled, "Where Is It?"

All interested persons are invited to attend.



DIVINE SERVICES

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

ROMAN CATHOLIC MASS 1700 fulfills Sunday obligation Saturday 0700, 0830, 1130 Sunday

BLESSED SACRAMENT CHAPEL MASS 1135 Daily except Saturday

CONFESSIONS 1615 to 0845 0800 to 0825 Saturday Sunday

RELIGIOUS EDUCATION CLASSES 1015 Sunday Kindergarten thru 6th grades 1130 Pre-school Wednesday First thru sixth seventh & eighth 1900 (Junior High)

Above classes are held in Chapel Annexes across from Center Restaurant. As announced Ninth thru 12th grades "In Home" Discussion Groups Monthly Youth Rallies Contact Chaplain's Office for specifics.

JEWISH SERVICES EAST WING—ALL FAITH CHAPEL Sabbath Services every Friday 2000

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



DONATION TO BUILDING FUND — Lorraine McClung (c.), business manager of the Maturango Museum Luncheons Committee, recently turned over a check for \$3,500 to Albert Gould, Sr., at left, treasurer of the Maturango Museum board of trustees. Carroll Evans, Jr., president of the board, looks on at right. This contribution represents money earned from the Monday luncheons and from the sale of the Maturango Museum Cookbook. The first printing of this gourmet's delight was sold out in just 11 days. The money will be used for the museum's building fund. —Photo by Ron Allen

Gourmet luncheons, cookbook sales raise total of \$3,500 for Museum building fund

During a gourmet potluck dinner held on June 23 at the Community Center, the Maturango Museum's Luncheons Committee turned over another \$3,500 to the museum's building fund.

This brings the amount raised at the Monday Luncheons and by the sale of the Maturango Museum Cookbook to \$8,000, all of which has been donated to the building fund over the past two years.

Lorraine McClung, business manager for the committee, presented the check to Albert Gould, Sr., treasurer of the Maturango Museum's board of trustees.

Albert Christman, chairman of the building fund, gave a short talk which included an appeal for funds. The museum is

planning to launch an all-out campaign to raise money for a new museum building in January 1976. The drive will be coordinated with the nation's Bicentennial celebration.

Willia Schaniel, chairman of the Luncheons Committee, presented certificates to all of the women who have worked at the gourmet luncheons over the past two years. In addition, she presented three special "thank you" certificates. These went to the Oasis Garden Club, the Desert Planters, and to Art Amos, manager of the Community Center.

Mrs. Schaniel also noted that a second printing of the cookbook — the first 500 copies of which were sold in just 11 days — will come off the press sometime in August.

Proper etiquette using telephone is key to creating good impression with callers

Telephone etiquette is important. The impression of a business office often is formed by a caller from the courtesy and efficiency of the person on the other end of the line.

So that personnel working at NWC might always present a good impression, The ROCKETEER offers the following 12 tips on receiving a telephone call.

- 1) Answer as promptly as possible. Don't let the phone ring and ring.
2) Identify yourself when answering. "The Rocketeer, Diane Coryell speaking," is a good example.
3) Speak distinctly and pleasantly. Hold

Surplus government property will go on auction block Thurs.

Vending machines, loud speakers, radio receivers, aircraft parts, tape recorders, typewriters, calculators, and many other items will be on the block at the next local auction sale, set for Thursday, July 10, at the Community Center.

The sale of surplus government property will be handled by the local office of the Defense Property Disposal Region, Ogden, Utah.

In all, 239 items will be up for sale at the auction. They will be on display from 8 a.m. to 3 p.m., Monday through Friday, at the Property Disposal office on the Center prior to next Thursday.

Registration for the auction will begin at 8 a.m. on July 10. Bidders must be present. Mailed bids will not be accepted.

For further details, contact Bill Guilliani or Bill Driggs by calling NWC ext. 2502 or 2538.

Employee in the spotlight



Jack M. Pakulak, Jr.

When Jack Pakulak, Jr., now head of the Propulsion Development Department's Thermal Research Branch, received his 5-yr. Federal length of service pin, Dr. J. H. Shenk, his department head shook his hand and said, "I've been wanting to meet you."

It's not that Jack is an elusive man, it's just that his employment record at the Naval Ordnance Test Station (now NWC) was a little spotty in those days. If Jack wasn't on the job, he was at school on educational leave, or in the U.S. Army.

Jack came to work at China Lake in October 1952 after he was graduated with a bachelor's degree in chemistry from Linfield College, McMinnville, Ore. That was just three months before he was drafted into the Army.

After receiving an honorable discharge in December 1954, Jack was placed on educational leave and spent the next six years attending Oregon State College at Corvallis (where he received his master's degree in 1958), Stanford University at Palo Alto, and the University of Arizona at Tucson. He's completed all of the work necessary for a doctorate degree except for the writing of a dissertation.

He returned from time to time to work a semester here, a summer there, and in 1958 — an entire year. Hence the puzzlement at the time of his 5-yr. pin ceremony.

Joined Code 45 in 1960

When he returned in 1960 to work full time, Jack joined the Propulsion Development Department, where he has been ever since.

For the past few years, Jack has been working diligently on a project that ended in 1970 when he stuck a bomb into a fire and it didn't explode.

Working particularly with bombs whose explosive substance is Tritonal, Jack and three other NWC employees — Dr. William S. McEwan, Howard C. Schafer and Dr. Taylor B. Joyner — began investigating the hazards of the cook-off of these and similar bombs after the railroad car disasters at Roseville, Calif., and Benson, Ariz., in 1973.

Because of his previous research, Jack made valuable contributions to the investigative reports of those accidents and assisted as an expert witness during trials that were conducted as the result of

lawsuits stemming from the disasters. Last month, the four men were presented with Navy Superior Civilian Service awards for the work they have performed in connection with the investigative studies of the two accidents. They also were presented the Technical Director Award in September 1974 for the same studies.

Although he was born in Portland, Ore., and raised in Newport, Ore., Jack now calls China Lake his "home." He and his wife, Mary, who also is a chemist employed by the Propulsion Development Department, have become solid citizens of this area. The couple has six children, including a set of twins. They are John, 19, who will be a sophomore next fall at Cal State, San Bernardino; Stella, 18, a freshman at the same school; James, 16, a junior at Burroughs High School in the fall; Joe, 6, who will enter first grade at Richmond School, and the twins — Theresa and Anne 2-1/2 years old.

Twins Born Day Apart

Theresa is older than Anne by one day. This phenomenon occurred when Theresa was born just before midnight and Anne was born a few minutes later. Jack says when they celebrate their birthdays, the cake is cut in half, one part for each twin.

Jack and Mary are past co-presidents of the All Faith Chapel's Catholic Congregation and both are quite active in the church. Stella joins her mother in singing in the congregation's choir.

The family shares the outdoor hobbies of camping, hiking and fishing. Jack enjoys repairing television sets and radios, and he likes to do a little gardening from time to time.

Mary is a competent seamstress who occasionally makes her own clothes.

Although he sits on a number of work related panels and committees, Jack studiously avoids most fraternal and social organizations. However, he is chairman-elect of the local chapter of the American Chemical Society.

One of the ways Jack keeps busy is inventing things. He holds three patents and is always thinking of new and better ways to do his job. Since coming to China Lake, Jack also has written more than 100 in-house publications and has one work in open publication.



TIPS FOR CYCLISTS—When passing a four wheel vehicle be sure there is ample space and time to pass. Give vehicles plenty of room. In addition, when passing a bicycle rider, give the other cyclist the same room you would for a four wheeled vehicle. Anxiety is instantaneous when a 2,000 to 3,000 lb. vehicle is about to brush a bike rider's sleeve.



METCALF SCHOLARSHIP WINNERS — Carolynn Beth Winters (r.) and Myrna Lee Martin were announced recently as winners of the Metcalf Scholarship Awards by the Protestant Congregation of the All Faith Chapel. Capt. R. E. Osman, NWC Chaplain, is shown presenting the two students with their checks. Miss Winters was granted \$700 while Miss Martin received \$500. Miss Winters, who was graduated from Burroughs High School in June with a perfect 4.0 grade average, will attend Santa Barbara City College in September. She is interested in probation work with young people. Miss Martin is planning to major in mathematics at Cal Poly, San Luis Obispo. —Photo by Ron Allen

The Rocketeer

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## Bakersfield's Terrapins win title in '75 Women's Invitational softball tourney

### Three local squads eliminated early

The Bakersfield Terrapins defeated Read Transport from Bishop, 10-3, to win the second annual Women's Invitational Fast Pitch softball tournament, held last weekend at China Lake.

Nine teams took to the ball diamonds at Reardon and Schoffel Fields to play a total of 14 games during the two-day, double-elimination tourney.

Three local squads were entered. These were the Nash Calculators nine, COMARCO, and the Creeps. The Nash Calculators softballers were eliminated early. The team lost the opening game of the tournament, 24-14, to the Riverside Bombers. Five games later, Nash took on the Riverside Wildcats and was thrashed, 15-3.

COMARCO fared as badly. This local team was defeated by the Corona Retirees, 10-9, in the third game of the tourney and then dropped a 14-0 tilt to the Wildcats.

Two games later, the Creeps were eliminated from the tournament by the Retirees, 8-4, after winning a 16-10 slugfest that knocked the Bombers out of the competition.

In the Creeps' 16-10 victory, two local girls played an important role. Kathy Burkhalter hit a grand slam homerun to break a tie in the eighth inning and Myrna Martin also slammed a round tripper. The Creeps' first loss was to the Cable TV nine from Bishop, 10-4.

Read Transport made it into the finals by shutting out the Bombers, 14-0, before losing a game to the Terrapins, 9-2. The Bishop squad then eliminated the Retirees by a 4-2 decision before dropping the championship game to the Terrapins.

Enroute to the tourney title, the Bakersfield Terrapins dumped the Wildcats, 6-1, and then whipped the Retirees, 9-1. The team's final two games were the 9-2 and 10-3 victories over Read Transport.

Hundreds of local softball fans attended the games and supported the three Indian Wells Valley entries. According to Pat Brightwell, tournament director for the Indian Wells Valley Softball Association and NWC's Special Services — co-sponsors of the event — the fans came away pleased by the high caliber of play even though a local team did not win.

For the record, Linda Linsea, a former local girl, was the winning pitcher and Cathy Bedwell took the loss in the championship game. Miss Linsea was voted "most valuable pitcher" of the tourney, and Carrie Fimbres, the Terrapins' second baseman, garnered the "most valuable player" honor.

### Mid-summer track meet will be held July 9 at Burroughs

The first "Sunstroke" track meet, sponsored by the Ridgecrest Parks and Recreation Department, Maturango Milers and the Over-the-Hill Track Club, will be held on Wednesday, July 9, at the Burroughs High School track.

The event will begin at 5:30 p.m. and will feature competition in the shot put, long jump and four running events—the 100-yd. dash, the 440 and 880-yd. runs, and the one mile run.

Fourteen different age groups have been established for the six different events. Both men and women may enter.

A fee of 25 cents per event will be charged. Sign-ups will be held at Burroughs just prior to the first event, which is scheduled to begin at 6 p.m. Ribbons will be awarded to the top four entrants in each event.

For additional information, contact Dick Hughes by calling 375-4194, or Roland Veon at 375-7856.



**GUARDING THE BAG**—Cathy Hubbard (l.), third sacker for the Read Transport team of Bishop, waits for the ball while Laurie Silvius, of the Bakersfield Terrapins, prepares to take another base. This bit of action came during the championship game of the Women's Fast Pitch Invitational softball tournament held last weekend at China Lake. The Terrapins won the game, 10-3.

### NAF wins for fifth consecutive year in annual BATNAF charity softball game

As one of his first official duties as Commanding Officer of Air Test and Evaluation Squadron Five, Capt. R. N. Livingston issued a challenge to Capt. C. B. Olson, Commanding Officer of the Naval Air Facility, to meet on the field of combat (a softball diamond) to play the annual BATNAF softball game for charity.

Capt. Livingston delivered the challenge because NAF had won this event four consecutive years.

Capt. Olson's reply was brief: "Your fortitude in persisting in this form of combat in the face of the overwhelming proven superiority of the NAF players is grudgingly admired."

The officers of the two commands met at Schoffel Field on Friday, June 27, to settle



**TRAFFIC JAM**—Capt. T. C. Wimberley (seated), the "keeper of the mug," prepares to pour a beer for Ron Hill (at left) who has just reached second base. In the center of the photo is Skip Harvey, the second baseman, while Ian Refo looks back to see how much time he has to consume his beer before running to third base.

the question. Approximately 200 spectators were on hand to witness the game, each having made a contribution to the Navy Relief Fund Drive as an admission fee.

For the fifth year in a row, NAF prevailed, 5-2. The rules of the BATNAF game are a little unusual. Although it is played much like any other softball game,

there are a few deviations. Scoring is kept by innings rather than by runs tallied. Each team has a "wild card" player who can bat at least once each inning and who can be put out, but that out is not registered against his team.

NAF's "wild card" was Cdr. Larry Gire, the Air Facility's Executive Officer, while VX-5's exec, Cdr. W. C. Smith, served in that position for the Vampires. Capt. Olson took one turn at bat as a "wild card" for the NAF team.

Base runners reaching second drank a mug of beer before being allowed to advance to third base. Capt. T. C. Wimberley, NWC's Technical Officer, was the official "keeper of the mug," and was positioned behind second base.

The umpire and official scorekeeper for the contest was Rear Admiral R. G. Freeman III, NWC's Commander.

Although the players try to keep the game in a serious vein as competition between the two commands is very keen, the game became a little looser as the innings wore on—for some strange reason.

Three kegs of beer reportedly were consumed by the players and the spectators, according to Lt. Bob White, captain of the NAF squad, and Lt. Terry Allen, head mentor of the VX-5 contingent.

However, it was all done in the name of charity. The two teams donated \$50 each to the Navy Relief Society, which was added to the money raised from the price of admissions.

### White Sox defeat Indians for Minor Division LL title

The White Sox have sewed up the title in the Minor Division of the China Lake Little League, although the team still has one game remaining to play.

The lock on the league crown came last Monday night when the White Sox dumped the charging Indians, 12-7. The Indians, who finished in third place, had won three of their past four games and looked like a real contender.

The Eagles nine ended the season in second place and the Orioles and Cardinals tied for the fifth place spot. The hapless Braves squad wound up in the Minor Division cellar.



### Wilt's Corner

#### Slow, fast pitch softball teams to enter 11ND tilts

By Wilt Wyman,

NWC Athletic Director

The 11th Naval District slow pitch softball tournament will be held July 7 through 11 at San Diego.

A local team, led by Joe Norrick as its coach, left last Monday for the Northern Section qualification tourney at Long Beach. Members of the squad are Raleigh Nauta, Wayne Santaw, James Erdman, John Stubblefield, George Davis, David Scaff, Philip Coger, Gregory Pecheos, Kent Blevins, Kenneth Bishop, Patrick Cramer, Jimmy Helton, Craig Hiller, Stephen Jones and Edward Watson.

A fast pitch squad, under the direction of Coach John King, will leave China Lake for Long Beach on Sunday. The 11ND Fast Pitch district tournament will be held July 14 through 18 at San Diego.

Members of the NWC fast pitch team are Edward Pitcavage, Kenneth Rausch, John Bateman, Robert Kauffman, Gregory Bishop, Gary Brown, Barry Olson, Steve Mendenhall, Mike Zych, Tim Strawmyer, Gordon Gillie, Ian Refo, Robert Campbell and Larry Hagen.

King has a double duty. He also is coach of the NWC Mojave Desert Inter-Service League fast pitch team. That squad is busily preparing for the MDISL tournament which will take place on July 19 and 20 at Edwards Air Force Base.

Team members are Ralph Stalnaker, Bill Stuart, John Martin, Jerry and Tom Mather, Jeff Radcliff, Mark, Mike and Marty Stoner, Bob Kauffman, Greg Bishop, Mike Zych, Ted Dominguez, Billy Brown and Barry Olson.

#### New Indoor Pool Hours

New hours for using the indoor pool at the gymnasium have gone into effect. The pool will be open to all on Saturdays, Sundays, Mondays, Tuesdays, Wednesdays and Thursdays from 1 to 6 p.m., and on Fridays from 1 to 9 p.m.

It will be reserved exclusively for the use of adults from 11 a.m. to 1 p.m., Mondays through Fridays, and from noon to 1 p.m. on Saturdays and Sundays.

Women only will be allowed to use the pool on Mondays from 6 to 9 p.m.

### July 14 is final day to sign up for boys' softball program

Registration for the Youth Center's boys' softball program will continue through Monday, July 14.

It is planned to form three leagues. They will be for boys in the fourth, fifth and sixth grades; seventh and eighth grades, and high schoolers.

A registration fee of \$10 must be paid at the time of the sign-up at either the Youth Center or the Ridgecrest City Hall.

This program is open to all dependents of military and civilian employees of the Naval Weapons Center, regardless of their place of residence.

#### Special game planned

A good way to celebrate the July 4 holiday tomorrow will be to attend the game between the coaches and managers of the Major Division of the China Lake Little League and the division's 12-year-olds.

This annual contest will be played at Diamond 4, beginning at 7 p.m.

## Navy Relief Society fund drive short of goal; \$9,600 donated

The Navy Relief Society's annual appeal for funds concluded last Friday. The drive began on May 19 with a goal of at least matching the amount collected last year—\$11,642.

Unfortunately, unofficial figures show that the 1975 drive fell short of that figure. Cdr. John Faron, coordinator of this year's campaign, said that approximately \$9,600 was raised from donations during the drive. "There is still some money to be turned in and the final figure might go higher than that, but we are still short of the goal," Cdr. Faron noted.

From the above total, he expects that approximately \$6,200 will be turned over to the Navy Relief Society after the drive's expenses are deducted, Cdr. Faron said. Persons who still wish to contribute to the Navy Relief Society can do so by contacting Cdr. Faron, phone NWC ext. 5242, or the Navy Relief Society office, 446-4746.

## Civic group to hear report on law enforcement problem trends

A report by Police Chief Steve Kaupp on trends that have been developing in the area of law enforcement problems on the Naval Weapons Center will highlight Tuesday night's meeting of the China Lake Community Council's board of directors.

The meeting, which is open to all interested persons, will be held in the Joshua Rm. of the Community Center, starting at 7:30 p.m.

### Cancer research...

(Continued from Page 1)

more sophisticated counter.

The selection of NWC came because of the Center's established expertise in mechanical, optical and electronics design, plus its ability to fabricate the product.

Dr. Doug Sticht, a supervisory physicist who heads the IR Systems Design Branch of the Air Weapons Department's IR Optics and Measurements Division, was handed the task.

He is assisted by five men. The first is Jim Clark, an electronics engineer from Code 5142. Clark is responsible for the electronics and signal processing design of the instrument. T. K. Jones, an electronics technician from Dr. Sticht's branch, is in charge of sample and characterization preparation of cultures being tested.

Bill Fitzgerald and Terry Moore, physicists with Code 5141, will handle optical design of the instrument. The fifth man is Dick Klabunde, a mechanical engineer from Code 5111. His responsibilities are in the areas of analysis and mechanical design.

These men will fabricate three instruments, all based on the original prototype. They will incorporate modifications to correct signal processing and to insure proper analysis. The program began officially in February. Dr. Sticht hopes to have three working models completed by August.

A bench instrument has been completed and testing will begin as soon as some newer reticle designs are finished. "We have settled the depth of field problem encountered earlier and have made a decision on what spectral band will be used," said Dr. Sticht.

The project has been funded for \$85,000 and is being conducted under the auspices of the NWC Technology Utilization Office, headed by George Linstead.

### Newest type Sidewinder tested at Point Mugu

A new version of the Sidewinder short-range, air-to-air, heat-seeking missile, the AIM-9L, recently began operational evaluations at Point Mugu.

Sidewinder is a passive, infra-red homing missile that has been in production since the mid-50s. The new model offers a more effective warhead, greater maneuverability and reliability, improved kill capability and an increased launch capability.

The missile is designed for use on Navy and Air Force aircraft. It is being evaluated by Air Test and Evaluation Squadron Four (VX-4) at Point Mugu, and tests are under the direction of Commander, Operational Test and Evaluation Force, Norfolk, Va.



U.S. NAVY'S

200th BIRTHDAY 1775 - 1975

These important events in the history of the U.S. Navy are recounted here for the purpose of calling attention to the U.S. Navy's 200th birthday on Oct. 13, 1975, as the entire nation prepares for the Bicentennial observance during the year 1976.



"One good idea is worth a year of hard work"

Henry Morgenthau to RAdm Bradley A. Fiske

Bradley Fiske both had good ideas and spent years of hard work. This Naval officer pioneered in the use of electricity for the Navy of the 1880s. He experimented with modern methods of fire control, and also was responsible for a number of inventions. Commander Folger, then Chief of the Bureau of Ordnance, stated that Fiske's telescopic sight for ships' guns changed Naval gunnery from a game of chance to a science.

Utilization of the latest developments of ordnance science has kept NWC in the forefront of modern Naval weaponry, just as the inventiveness of RAdm. Fiske sparked the Navy of his day.

## Laser-guided weapons tested in close-air support at Coso Range

A joint operational test of laser-guided weapons in close-air support was recently concluded on the Naval Weapons Center's Coso Range.

Members of the United States Marine Corps participated in the tests, which were held from May 27 to June 19. Logistics and helicopter support was provided by the U.S. Army.

Purpose of the operation was to develop tactics for the use of laser-guided weapons and to test and evaluate various designators—both ground and airborne.

Director of the test program was Brig. Gen. N. C. New. He is director of the Marine Corps Development Center, Quantico, Va. Col. D. L. Harvey, also of MCDEC, was the deputy test director and was present at China Lake during the testing period.



**JOINT TEST HELD**—An unidentified Marine peeps through a ground-based laser designator while a civilian employee of the Naval Weapons Center records data passed on to him by the military man. The photo was taken during a recent three-week joint operational test of laser-guided weapons in close-air support held at NWC. The laser designator above illuminates the target with a laser beam. The reflected beam was then detected by a seeker system on A4M Skyhawks flown by pilots from VMA 214 at El Toro. This provides guidance to both the aircraft and the weapon for the drop.

—Photo by Tom Carter

Assisting Col. Harvey was Lt. Col. E. C. Paige, NWC's Marine Corps Liaison Officer, and Whit Reeves, who was in charge of operations at the NWC range area.

Taking part in the operation were Marines from the 2nd Air Naval Gunfire Liaison Company (ANGLICO), Camp Lejeune, N. Car., and from the 1st ANGLICO, Camp Pendleton. In addition, elements of the 1st Marine Amphibious Force at Camp Pendleton, also participated.

Other units taking part in the tests were the Marine Air Support Squadron 3 from El Toro, the Marine Air Detachment from Pt. Mugu, Marine Attack Squadron 214 of El Toro (flying LST-equipped A4M Skyhawks), Medium Helicopter Squadron 161 and Heavy Helicopter Squadron 363 of El Toro, and an Army Support Squadron from Ft. Ord.

In all, more than 100 military personnel participated in the joint test, along with approximately 60 NWC civilians, mostly from the Laser Lab. The military men pitched tents in the Coso Mts. and while here spent nearly all of their time in that area.

### Report released on energy consumption during May 1975

The Naval Weapons Center's overall energy consumption rate for the month of May (official usage only) was reduced by 18.9 per cent, it was reported this week by Dick Malone, the Center's Energy Conservation Officer.

The reduction for May 1975 is based on a comparison with the same period in the base year of 1973, Malone noted. The changes were:

Electrical power consumption—down 24.4 per cent.

Propane gas usage—cut by 23.8 per cent. Use of fuel oil for boiler plants—down by 19.6 per cent.

Natural gas consumption—increased by 1.2 per cent.

# NAF cook is July Bluejacket . . .

(Continued from Page 1)  
shore duty in the United States. The ships that he has served on are the USS Shangri-la and the USS Kitty Hawk, both aircraft carriers; three destroyers—the USS Bradford, USS Mullany and USS McMorris; the USS George Clymer, a troop transport ship; a submarine—the USS Gudgen, and a fleet tug boat—the USS Mactobi.

His overseas assignments include three tours of duty in Vietnam with Mobile Construction Battalion 8, a brief tour in Rota, Spain, and duty with MCB 3, in Puerto Rico and Guam.

While with MCB 8 in Vietnam, MS1 Fitzpatrick was wounded during the 1968 Tet Offensive, and wears the Purple Heart among his numerous service ribbons and decorations.

He came to China Lake in February and holds down the job of head cook at the NAF Mess Hall. He has been a cook throughout his entire Navy career and finds this assignment completely to his liking.

In an endorsement of the July Bluejacket's nomination letter, LCDr. S. Y. Kern, NWC's Food Service Officer, said MS1 Fitzpatrick was considered "an

## Special course on personnel mgmt. for executives planned

An opportunity for executives above the grade of GS-11 to take a course entitled "Personnel Management for Executives," will be presented by the Personnel Development Division, Code 654.

This 10-day program will be held in a hotel or motor lodge in Bakersfield. Participants would be required to live at the hotel during that time. Sessions are sometimes held during evenings and on Saturday morning.

Before scheduling the program, the Personnel Development Division is interested in knowing how many executives on the Center would be interested in participating. If enough interest is shown, the program will be scheduled in the fall.

Interested persons should contact Peggy Ames at the Training Center by calling NWC ext. 2359.

The program is designed to broaden executives' perspective of the personnel management job in relation to the total management function; improve insight into the personnel management responsibility; the relationships of staff officials to each other; increase understanding of current developments in personnel management, and improve those human relations skills which make for effectiveness in managing people.



**ANNIVERSARY CELEBRATED**—Members of Desert Flower Chapter No. 125 of the Navy Wives Club of America recently joined similar groups throughout the country in celebrating the 39th anniversary of the NWCA, which was chartered in 1936. Looking on as Cathy Gire, the club sponsor (in center) prepares to serve a slice of the birthday cake to Carol Bousquet, president of the local group, are (af left) Diane Wadelin, chaplain and publicity chairman; and (on right) Brenda Guanga, vice-president, and Merelie Dombrowski, historian. Meetings of Desert Flower Chapter No. 125, NWCA, are held on the second Thursday of each month, starting at 7:30 p.m., at the group's hut on McIntire St. Membership is open to the wives of all enlisted men serving in the Navy, Marine Corps, Coast Guard and active reserve units of these branches of the military service, in addition to the wives of such servicemen who have retired or been transferred to the Fleet Reserve. Additional information about the Navy Wives Club can be obtained by calling Mrs. Bosquet at 446-5296. —Photo by Ron Allen

overwhelmingly positive" reason for patron satisfaction at the NAF Mess Hall.

The nomination letter, written by MSCS J. L. Mestas, pointed out that MS1 Fitzpatrick possesses "a unique ability to establish rapport with the people he comes into contact with on a daily basis, thereby gaining their complete cooperation."

"MS1 Fitzpatrick also has the ability to exercise sound judgment, analyze problems and select the best methods to achieve the desired results. These traits make him a highly desirable and valuable asset to this Command," MSCS Mestas concluded.

As a result of his selection, the July Bluejacket and his wife, Virginia, will be guests of the Greater Bakersfield Chamber of Commerce during one weekend this month. In addition, the couple will receive gift certificates and discount coupons from Bakersfield merchants who participate in the monthly program.

While at the Kern County seat, the China Lake couple will be hosted at The Bakersfield Inn, where they also will receive their meals. Prior to departing the local area, the Fitzpatricks will receive the keys to a new Ford automobile from Doug Butler, owner of Desert Motors, to use on the weekend trip.

The Fitzpatricks have three children. They are Cheryl, 15, who will be a sophomore at Burroughs High School in the fall; Thomas, 14, who will enter eighth grade in September at Murray School, and Anita Rae, who will attend sixth grade at Murray School next fall.

## Milt Ritchie earns master of science degree at Stanford

Milton Ritchie, a chemist in the Microelectronics Branch of the Engineering Department's Electromechanical Division, was recently awarded a master of science degree from Stanford University at Palo Alto.

Ritchie majored in materials science and engineering.

During the time he spent at Stanford between the fall term in 1973 and December 1974, Ritchie worked mainly with photo conductivity in solids and ion implantation in semi-conductor materials.

He came to work at China Lake in 1960 after a period with Union Oil Co. While here, he has worked mainly with semi-conductor devices.

Ritchie has a BS degree from UC, Berkeley, and received a master's degree in public administration from the University of Southern California through the NWC Fellowship Program.



**CORSAIR II PROS**—The three pilots shown above have flown all five versions of the A-7 Corsair II aircraft. They are (l.-r.) Lt. Joe Killinger, Cdr. J. J. Fleming and Lt. Mike Tkach. Lt. Killinger is an A-7D/E project test pilot at NAF. Cdr. Fleming is the NWC A-7 project officer, and Lt. Tkach is NWC's Aircraft Systems Officer.

## Three local pilots have flown all five versions of Corsair II

There are currently five production models of the A-7 Corsair II aircraft. These are the A, B, C, D and E versions.

There are now three pilots stationed here who have flown all five models of the versatile aircraft. They are Cdr. J. J. Fleming, NWC's A-7 Project Officer; Lt. Mike Tkach, the NWC Aircraft Systems Officer, and Lt. Joe Killinger, an A-7 D/E project test pilot with the Naval Air Facility.

Cdr. Fleming tops the other two men with more than 1,200 hours of flight time in the Corsair II. He first flew the A-7 A/B while attached to Attack Squadron 122 at NAS Lemoore. He later deployed to Southeast Asia with Attack Squadron 93 flying A-7B aircraft.

Subsequently, Cdr. Fleming was the Commanding Officer of Attack Squadron 66 at NAS Cecil Field, Fla., and flew the A-7E version after shipping out on-board the aircraft carrier USS Independence.

In his current job he has been checked out in the A-7D by the U.S. Air Force at England

AFB in Louisiana, and flies the A, C, D and E models here at China Lake.

Lt. Tkach logged his first Corsair II time in the A/C versions during training with VA-174 at NAS Cecil Field. He later deployed in A-7Bs while attached to Attack Squadron 72, and then attended the Air Force Base, where he flew the A-7D (the Air Force version). He is currently flying the A, C and E models (plus the T-38) during his tour of duty at NWC. To date, Lt. Tkach has logged more than 1,000 hours in the Corsair II.

Lt. Killinger, who has more than 1,100 hours in the air at the controls of a Corsair II aircraft, now pilots the A, C, D and E versions during his duties at China Lake. He got his first experience in the A-7 A/B models while with Attack Squadron 122 at NAS Lemoore. He was later assigned to Attack Squadron 56 for combat deployment in A-7Bs, and was given his first checkout in the "Echo" Model after being transferred to China Lake.

He flew the Air Force version (the A-7D) at England AFB in October 1974.

## Tips on best ways to avoid heat problems during summer listed

In a "normal" year, about 175 Americans die each summer from excessive heat. Only the excessive cold of winter — among the natural hazards — takes a greater average toll.

Heat waves or hot spells make a tragic difference. Between 1950 and 1967, more than 8,000 persons died from the effects of solar radiation — an average of about 450 persons per year. That is a high price to pay for warm weather.

It is not known in how many deaths excessive heat played a contributing role, such as in those where the victim suffered from aging heart or some other disease.

Desert dwellers are likely to suffer from the effects of solar radiation more so than the average citizen. The Kern County Health Department has released a few suggestions on how to play it safe during hot spells. They are:

- Play it safe, slow down. The body can't do its best in high temperature and humidity, and it might do its worst.
- Drink plenty of water while the hot spell lasts.
- If not on a salt-restricted diet, take an occasional salt tablet or salt solution after working up a sweat.
- Get out of the heat for at least a few hours each day.
- Don't get too much sun. Sunburn makes

the job of heat dissipation that much more difficult.

Heat dissipation is the body's way of protecting itself in hot spells. To keep cool, the body dissipates heat in several ways. One way is via the circulatory system. As the temperature of the blood rises, the heart pumps more blood, leading to greater circulation in the upper layers of the skin. This allows the excess heat to drain off into the cooler atmosphere.

The sweat glands and skin, however, perform the major role in heat loss. The cooling effect is a result of evaporation of the water shed by the sweat glands and skin. Anyone who has stepped from a bath into a dry room is familiar with how evaporation cools.

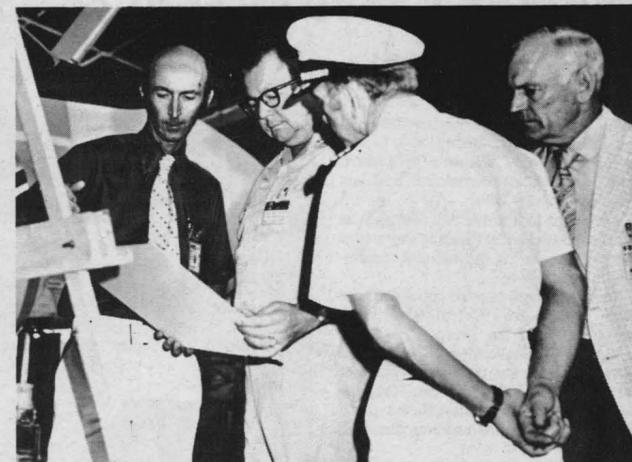
But under conditions of high temperature (above 90 deg.) and high relative humidity (more than 75 per cent), which retards evaporation, the body must do everything it can to maintain 98.6 deg. inside of itself. Once the body thermal limits are exceeded by very much or for very long, it does not doze reptile fashion — it dies!

To avoid heat stroke is to know its early warnings. There are easy fatigue, headaches, heavy sweating, high pulse rate, poor appetite and shallow breathing. Upon feeling these symptoms, reduce activity and get to a cooler environment.

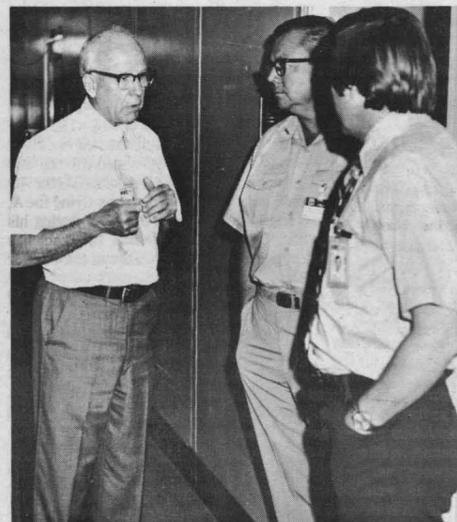
# OPNAV'S Director of RDT&E is visitor at Center



**AS A MEMENTO** of his visit to China Lake, Rear Admiral R. G. Freeman III (at left), Center Commander, presented an NWC plaque to Vice Admiral Parker B. Armstrong, OPNAV's Director of RDT&E. —Photos by Ron Allen



**AN UPDATE** ON some of the latest results of the Condor missile tests was provided for VADM. Armstrong (2nd from left) by Jack Crawford (at left), head of the Air Weapons Department's Air-to-Surface Systems Division. Looking on are (in foreground) Capt. R. N. Livingston, Commanding Officer of VX-5, and Frank Knemeyer, head of the NWC Systems Acquisition Office.



**RESEARCH RELATED** to combustion instability was discussed with VADM. Armstrong (center) by Dr. Hugh Hunter (at left), head of the NWC Research Department, and Dr. Ron Derr, acting head of the Aerothermochemistry Division.

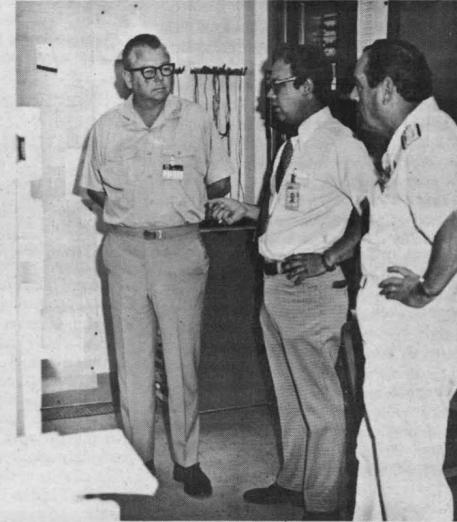
The Naval Weapons Center was honored earlier this week by the visit of Vice Admiral Parker B. Armstrong, who is now serving as the Director of Research, Development, Test and Evaluation in the Office of the Chief of Naval Operations, Washington, D. C.

VADM. Parker took over his current duties on May 1, relieving VADM. William J. Moran, former NWC Commander, who retired from the Navy on that date.

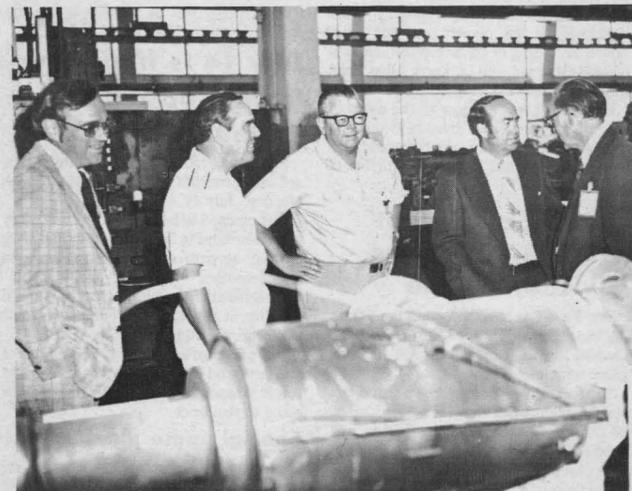
A veteran of more than 33 years of commissioned service in the Navy, VADM. Armstrong is a member of U. S. Naval Academy's Class of 1942. Prior to assuming his present position, he had served for one year as OPNAV's Deputy Director of RDT&E.

His welcome to China Lake began Monday morning with a "Management Overview of the Naval Weapons Center," presented by Rear Admiral R. G. Freeman III, NWC Commander, and a report on the Center's technology base that was given by Dr. G. L. Hollingsworth, Technical Director.

Thereafter, VADM. Armstrong spent 2 1/2 days attending briefings on a wide variety of NWC projects and inspected the laboratories, ranges and other special facilities that are utilized in carrying out the Center's prime purpose of supporting the Fleet by developing tactical air warfare equipment and missile weapons systems.



**THE OPERATION** of the Sparrow evaluation facility was described for the benefit of VADM. Armstrong (at left), by Henry Blecha, head of the Radio Frequency / Electromagnetic Compatibility Branch in the Engineering Department. Listening intently as Blecha tells about his work is RADM. Freeman.



**IN THE MACHINE SHOP** at Michelson Laboratory, VADM. Armstrong (center) inspected some of the special equipment that is available and observed how it is used. Others in the photo are (on left) Bob Hillier, head of the Fuze Department; RADM. Freeman, NWC Commander; and (on right) Burrell Hays, head of the Engineering Department, and Dr. G. L. Hollingsworth, NWC Technical Director.



**AN AIRCRAFT NOSE CONE** housing a seeker used for evaluation of the Condor / Harpoon Imaging Infrared Program (CHIIRP) was examined by VADM. Armstrong. The latter is seen listening to an explanation of how this system functions that was presented by Robert W. Campbell, the program manager.