

Maturango board decides to hire expert on museum design work

The decision to hire a well-known museum architectural specialist to prepare a master plan for the new Maturango Museum was announced recently by the museum's board of directors.

This important step in the direction of constructing a new building in the civic center complex of the Kern Regional Park in Ridgecrest is the outcome of two years of intensive study by the museum's building committee.

"Our study convinced us that the planning phase is all-important to the success of a new museum," Jim Baird, president of the board of trustees, said. "Museums have many special demands in the way of lighting, storage, security and exhibit space that only an expert can decide," he noted.

E. Verner Johnson, a Boston-based architect who has made a specialty of designing museums, has been hired to perform an intensive study of the purposes, programs, funding prospects, and architectural demands of the new museum. Johnson's study will cost \$15,000 and will include a master plan as well as architectural plans and a model of the proposed new museum.

The board of trustees' decision to hire Johnson to prepare a preliminary architectural plan and master plan report was made only after consideration of a number of alternatives. In addition, telephone calls were made to officials of several museums designed by Johnson, all of whom were reported to be highly enthusiastic about his work.

Among such projects completed recently by Johnson are the Memphis Pink Palace Museum and the Museum of International Folk Art in Santa Fe, N.M.

Johnson arrived yesterday on his first visit to Ridgecrest in order to discuss with interested local area residents any ideas they may have to contribute about the building of a permanent museum here.

Members of the museum's board of trustees hope that the master plan to be prepared by Johnson will prove a valuable assist in obtaining grants of funds to help finance a portion of the cost of the museum. In addition, the trustees are anxious to give local area residents some tangible evidence of the intent to build in order to attract new financial support for this community project and also to place emphasis on the importance of the donations for this purpose that have already been received.

In other museum news, Ruth Amster was recently named to the board of trustees, replacing Ben Tozer, whose resignation was brought about by the heavy demands of his

job. A newcomer to Indian Wells Valley, Mrs. Amster is expected to bring welcome expertise on museum functions to the museum board.

Mrs. Amster, who moved here this spring from Washington, D.C., had spent the previous three years working as a docent for the National Collection of Fine Arts and, in that capacity, performed a number of research tasks. An art historian, she also taught art appreciation classes for the adult education program of Montgomery County in Virginia.

"With her expertise and connections with Smithsonian and other Washington museum people, we expect Ruth to be an invaluable help to the Maturango Museum," said Baird, who has already assigned the board's newest member to restructure the museum's volunteer program.



CPO Club

"The Sounds of Country" will make its final China Lake performances at the Chief Petty Officers' Club tonight and tomorrow night, George Barnard, club manager, reported.

The music group has played several times at the Center's three service clubs during the past few months and has gained local popularity.

Barnard said that due to a long-term contract in Las Vegas, Saturday night will mark the end of the music group's rotating engagement here.

"The Sounds of Country" will play from 9 p.m. until 1 a.m. both tonight and tomorrow night with the dining room featuring the regular Friday night prime rib and Icelandic cod dinners and offering patrons sirloin steak and Alaskan king crab Saturday evening.

Enlisted Mess

The "Contraband" rock music group will not play at the Enlisted Mess tonight as announced in the Plan of the Day on Wednesday. Walt Schimke said that the group had cancelled its engagement here.

Instead, the "Edwin Quinn Rock Band" will perform from 9 p.m. until 1:30 a.m. A \$1 cover charge will be collected at the door.

Tomorrow night, also from 9 p.m. until 1:30 a.m., the club will feature a return performance of the "Blue Jeans Disco." There will be no cover charge.



FLEET RESERVE AIDS LITTLE LEAGUE — Henry Blecha (at left), president of the board of directors of the China Lake Little League, accepts a donation of \$150 from Art Trent, president of Branch 95 of the Fleet Reserve Association. The presentation took place during a recent Fleet Reserve meeting, and the money will be used to purchase some badly needed new equipment for use next season. Support of activities such as Little League are a continuing part of the program of the Fleet Reserve Association, which is composed of active duty and retired members of the Navy, Marine Corps and Coast Guard.

Coming week at COM to be topped off by 'Membership Night' party

Three special events are on the calendar during the coming week at the Commissioned Officers' Mess, beginning with "Italian night" on Tuesday at the COM and winding up with the club's monthly "Membership Night" party on Friday, July 28.

Some new Italian entrees will be on the menu Tuesday night, along with spaghetti and meat sauce (all you can eat for \$1.95).

Dinner will be served from 6 to 9 p.m. on Tuesday, and also on Thursday, July 27, which has been designated "International Night." Complete dinners featuring Japanese teriyaki steak, Grand Marnier Cornish game hens, and New York pepper steak will be on the menu Thursday

evening. Next Friday's "Membership Night" fete at the COM will be highlighted by the country and western music of Gene Bare and his band, and a country barbecue which (weather permitting) will be served on the lanai.

The menu will include charcoal-broiled chicken, baked potato, salads, corn on the cob, hot biscuits and rolls — all for the nominal price of \$3 each for COM members and their guests.

Dinner will be served from 6 to 9 p.m., and music for the listening and dancing pleasure of those who attend the "Membership Night" party will be played from 8 p.m. to midnight.

"Membership Night" has been a popular event for the past two months at the COM, and another well-attended, fun-filled affair is hoped for on the night of July 28. Reservations to attend can be made by calling 446-2549.



FELLOW ALUMNI — In this rehearsal photo of CLOTA's summer production, "How To Succeed in Business Without Really Trying," Tom Lehmann (at right), as J. Pierrepont Finch, discovers that one way to the boss's heart is through his alma mater.

Joining with Bill Altieri, as Biggley, Lehmann goes through a rousing chorus of "Grand Old Ivy." A light-hearted musical directed by Elena Vitale, CLOTA's summer production will open at the Burroughs High School lecture center on Aug. 4, and is scheduled for repeat performances on Aug. 5, 11 and 12. Curtain time is 8:15 p.m. Tickets, priced at \$4 for adults and \$2 for students, enlisted military personnel and senior citizens can be purchased in advance at the Gift Mart, Medical Arts Pharmacy, Deboni's Ice Cream Parlor and the Imporium, all in Ridgecrest.

Rummage sale to be held tomorrow by spay, neuter group

A wide variety of used clothing in good condition, household appliances, books and other items will be offered for sale tomorrow from 9 a.m. to 4 p.m. in the old Kern County Building at 230 W. Ridgecrest Blvd.

Contributions for this rummage sale have been collected for several weeks from those interested in aiding the Indian Wells Valley Spay and Neuter Program. All money raised from this event will go into a fund that is used for making rebates of half the cost pet owners incur when they have their dogs or cats either spayed or neutered.

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Naval Weapons Center
China Lake
California

July 21, 1978

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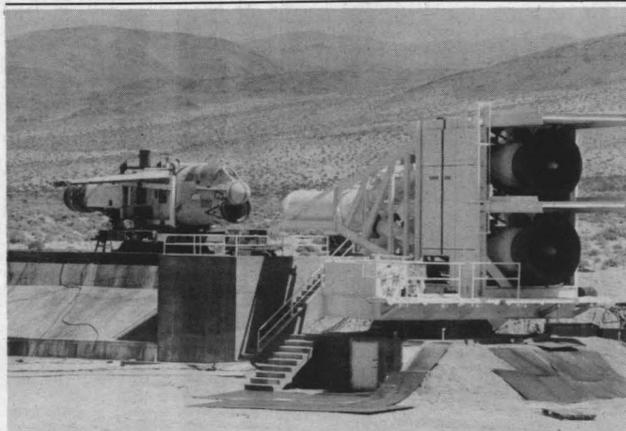
4-Star Admiral Visits NWC 3

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Sports 6

Public Works Gas Station To Move 7

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IMPORTANT ADJUNCT TO TEST WORK — The high velocity air flow system is an important component of the Naval Weapons Center's Aircraft Survivability Test Facility, since air flow plays a significant role in determining jet engine response during fuel ingestion tests. The high velocity air flow system is capable of putting out a 450-knot blast over an area 9 ft. square, or lower velocities over a larger area. In this set up for a fuel ingestion test, a TF-30 turbofan engine (at left) is mated to an extensively modified A-7 aircraft fuselage inlet duct assembly.

Tests conducted to determine causes, ways to avoid, fuel ingestion by aircraft engines

The often serious consequences of fuel ingestion by aircraft gas turbine engines and the means to avoid the consequences is the subject of a complex test series which has been underway for about five years in the Naval Weapons Center Survivability and Lethality Division. Various other Army, Navy and Air Force Laboratories have also been involved in fuel ingestion related investigations.

Fuel ingestion is the passing of raw aircraft fuel through the inlet plane of gas turbine engines. It can be caused by enemy action, by fuel spillage during in-flight refueling operations, and during crash landings when fuel spills occur.

Enemy projectiles striking aircraft fuel cells which are adjacent to engine inlet air flows can cause the release of sufficient quantities of fuel into the engine inlet to evoke a wide variety of adverse responses. The actual nature of the observed (and now to some extent predictable) responses depend on a large number of variables. These include the types of engine, the engine power setting, the amount and type of fuel that is ingested, whether or not the mode of ingestion is steady state or transient or both, inlet air Mach number, fuel temperature and many others, as was explained by E. W. Stull, project engineer.

Results Widely Varied

The results of fuel ingestion events vary from mildly degraded engine performance to violent fires and explosions totally destroying the engine. This damage mode has been recognized as being significant for a number of types of aircraft. Accordingly, a great deal of thought has gone into generating ways and means to alleviate the damage done by fuel ingestion failure modes.

"The very best method of negating the destructive effects of fuel ingestion is to keep fuel out of the engine entirely by designing the aircraft so that fuel tanks and

refueling probes are not adjacent to engine inlet airflows," Stull said. This consideration has been taken seriously and has resulted in certain configuration changes in contemporary aircraft. "However, given that other design considerations will often take precedence, there are a number of other approaches being investigated to prevent adverse engine response to fuel ingestion," he continued.

Ways To Alleviate Problem

Some of the techniques under development, Stull noted, are structural modifications to inlet duct fuel tank walls with materials designed to limit to tolerable levels the volume of fuel which can be expelled into the engine inlet air flows upon fuel tank impact by enemy projectiles. An alternative to this includes development of self-contained devices which can sense a fuel ingestion event in progress, warn the pilot and automatically take immediate engine oriented corrective actions that will reduce the likelihood of a destructive engine response to fuel ingestion.

In addition, tests will be conducted in Fiscal Year '78 using modified fuels composed of materials which will serve to inhibit severe damage causing explosions.

The primary engine tested in the current series has been the TF-30 turbofan engine which powers various models of the Corsair II. Similar tests also have been carried out on the J-65 and J-79 engines used in the A-4 Skyhawk, F-4 Phantom, and on the J57P-6 engine of the A-3 Skywarrior.

Purpose of Most Tests

Most of these series of tests have been conducted at the request of the Joint Logistics Commanders under the auspices of the Joint Technical Coordinating Group on Aircraft Survivability and have been directed at determining the tolerance limits of these engines to the various modes of fuel ingestion. However, as indicated earlier, the data generated in support of this requirement has caused substantial interest in development of countermeasures to fuel ingestion.

The dynamic fuel ingestion testing conducted at NWC is remotely controlled and monitored from a blockhouse which contains equipment for observing and recording all important data parameters. Electronic instrumentation ranges from closed circuit color television/video recorders to two independent digital data acquisition systems capable of handling several hundred channels of data simultaneously recording on both magnetic tape and in solid state memories.

Support instrumentation consists of oscillographs and oscilloscopes, various real time digital displays and fast turnaround in-blockhouse data plotting directly from solid state memory.

One-of-a-Kind Facility

The aircraft Survivability Test Facility at NWC is the only facility in the country which can support high hazard testing of fully operational aircraft, with power plants operating at full power and with all other aircraft systems operational.

This facility, Stull added, was carefully designed to carry out high hazard, high risk testing that cannot be done in expensively equipped but relatively fragile laboratory areas and test cells because of the potential for damage or loss to costly equipment.

(Continued on Page 4)



ENGINE CALIBRATION RUN CONDUCTED — Base line data from undamaged engines for comparison later with data from damaged engines is collected by (seated, l.-r.) Gerald Rogers and Tom Blose, as Ed Stull, project engineer observes their work. Rogers is the lead mechanical technician and chief engine operator, while Blose is the high velocity air flow system operator. The photo was taken in the main control center of the Aircraft Survivability Test Facility.

Employee service awards

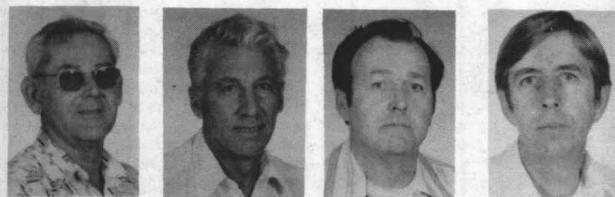
The following Naval Weapons Center employees have received federal service or NWC length-of-service awards:



Albert P. Dominguez 35 yrs. Fed'l Service Code 6223 Willie L. Guise 30 yrs. Fed'l Service Code 6221 Harold G. Harnak 30 yrs. Fed'l Service Code 6221 Robert J. Hoagland 30 yrs. Fed'l Service Code 6222



David J. White 25 yrs. Fed'l Service Code 3814 Glen H. Gillette 20 yrs. Fed'l Service Code 3352 Harold D. Nuffer 20 yrs. Fed'l Service Code 3913 Robert L. Johnson 20 yrs. Fed'l Service Code 3333



Frank L. Parker 20 yrs. Fed'l Service Code 3334 Robert L. Clapp 20 yrs. Fed'l Service Code 3934 Charles R. Oldfield 20 yrs. Fed'l Service Code 3331 Roy L. Nichols 20 yrs. Fed'l Service Code 3311

'Voter Assistance Teams' encourage military participation in election

To emphasize the importance of voting, the Naval Weapons Center and Air Test and Evaluation Squadron Five have formed "Voter Assistance Teams" to encourage military personnel to cast ballots in this year's General Election.

The teams are composed of a Voting Assistance Officer and voter counselors who will contact each sailor individually to explain absentee ballot application procedures.

The NWC Voting Assistance Officer is Lt. John Everson and his VX-5 counterpart is Ens. Michala Jeffers.

Voter counselors will determine the voter registration status of persons contacted and assist them in obtaining absentee ballots.

Voting Assistance Officers have a supply of absentee ballot postcard requests and pamphlets which explain voting procedures.

The voter assistance program at China Lake is part of a Navy-wide effort to focus

the attention of personnel on the Nov. 7 General Election and to get out the Navy vote.

Lt. Everson said that NWC has appointed 17 voter counselors, or one counselor for about every 20 sailors. Ens. Jeffers reported that VX-5 has seven counselors.

This is the first time that the Navy has instituted a program to contact individuals concerning their absentee voting status and to advise them of home state voting requirements.

Sept. 7 has been designated as Armed Forces Voters Day, and this day has been set aside so that each Navy command can focus attention on absentee voting during the General Election.

The Navy is also planning an intensive publicity drive in ship and station newspapers and on Armed Forces Radio and Television Service stations to help get out the vote.

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 092, 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 096 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisor appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Electronics Technician, GS-854-7 / 8 / 9, PD No. 7832049, Code 2362 — This position is located in the Explosives Technology Branch, Conventional Weapons Division, Ordnance Systems Department. Incumbent adjusts and calibrates high speed electronic instrumentation for use in explosives measurements; sets up and operates ultra high speed cameras and other test equipment; prepares diagrams and drawings of test setups; assists in the design of test fixtures, devices and electronic circuits; prepares engineering drawings for use in building and procuring test equipment; uses machine tools to make simple prototype test assemblies, devices, and fixtures; serves as member of firing team in the setup and firing of explosive devices and experiments; as firing officer, responsible for safe conduct of test firings, storage and handling of explosive material, etc.; reports test and experimental data. Job Relevant Criteria — Knowledge of electronic instrumentation, digital timing circuits and general control systems; knowledge of algebra, geometry, and trigonometry; ability to use common shop machine tools and precision measuring devices; ability to produce electronic and mechanical drawings.

Management Analyst, GS-343-5, PD No. 7832047, Code 325 — Promotion potential: GS-9. This position is located in the Engineering Division of the Ordnance Systems Department. The incumbent will receive assignments and training leading to independent performance of the following duties: plan and coordinate data acquisition concerning department facilities, equipment, and machinery; use research, development, and testing; determine time and cost effective methods of facilities management; analyze facilities/equipment needs and requirements to determine maintenance or replacement projects; recommend management actions regarding acquisition, use, maintenance or replacement of facilities and equipment; prepare and present written and oral reports of findings. Job Relevant Criteria — Ability to perform systematic analysis and to draw sound conclusions; ability to communicate clearly and effectively, both orally and in writing; ability to deal tactfully and effectively with all levels of NWC personnel; demonstrated ability to organize and to make presentations.

Clerk-Typist, GS-322-3 / 4, PD No. 7732036N, Code 32 — This position is located in the Ordnance Systems Department. The incumbent is responsible for the preparation of technical reports and correspondence, usually from handwritten draft; corrects spelling, punctuation, grammar, etc.; serves as receptionist for department office and staff; makes complete travel arrangements; prepares procurement stubs and work authorizations; maintains training requests; acts in absence of departmental supervisor. Job Relevant Criteria — Ability to type with speed and accuracy; ability to work tactfully but effectively with all levels of NWC personnel; ability to work effectively with minimum supervision.

Business Manager, GS-1101-12, PD No. 7608081E, Code 009 — This position is head, Special Services Division, Ordnance Systems Department. The incumbent is responsible for the general management of the Center's recreation and athletic programs, clubs and messes, and consolidated package liquor store. The incumbent oversees the operational, financial, and personnel management of these activities and coordinates the various services into a single, cohesive morale, welfare, and recreation program for the Center and its tenant activities. At some future date the division will become an independent department reporting directly to Vice Commander, NWC. Job Relevant Criteria — Demonstrated ability to manage military clubs, recreation programs, and retail operations; deal effectively with all levels of management and patrons; supervise. Knowledge of nonappropriated fund financial management and controls, and personnel regulations. Promotion potential: GS-13 pending classification by WFD, OCP. Status eligible as accepted.

Equal Opportunity Officer, GS-160-12, PD No. 7700032E, Code 008 — This position functions as the Deputy Equal Employment Opportunity Coordinator Officer for NWC and is on the staff of Commander, NWC. Incumbent provides leadership for the EEO Program and staff, processes formal discrimination complaints, represents the Center in contracts with community and civic groups, provides information to the Personnel Department, meets with Center management, develops and presents EEO training, and evaluates EEO program effectiveness. Job Relevant Criteria — Demonstrated ability to work with persons at all levels of a complex organization, plan and design programs for employees at all levels; direct programs designed to improve employment opportunities for minorities and women; supervise a small staff, experience in coordinating diverse special interest groups; and to work under pressure and meet short deadlines. Knowledge of the Federal Personnel System. Skill in communicating effectively orally and in writing. Status eligible as accepted.

Payroll Clerk, GS-544-3 / 4, PD No. 7171016, Code 0844 — This position is located in the Payroll Branch, Office of Finance and Management. Incumbent performs routine research of payroll records to correct leave data; prepares changes to employee's earnings, deductions and leave factors; prepares reports to leave availability, leave transfers, and earnings statements. Job Relevant Criteria — Knowledge of payroll; leave regs; working knowledge of data processing, experience and/or training which demonstrates arithmetic aptitude, ability to work under pressure. Promotion potential GS-5. Status eligible as accepted.

Printing Specialist, GS-1844-9, PD No. 7820550, Code 2340 — This position is located in the Graphic Arts Division of the Technical Information Department. The incumbent serves as the primary point of contact for information concerning the NWC printing, reprographics and micrographics program as well as the NWC copier program. Major duties are liaison and consultation, plant facility management, scheduling and production, and equipment management. Job Relevant Criteria — Knowledge of printing, reprographic and micrographic principles and techniques, ability to interpret pertinent

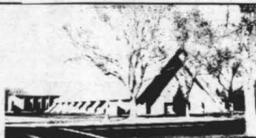
regulations and policies, ability to work independently, ability to deal tactfully with people, knowledge of budget and fiscal procedures, knowledge of computer programming.

Nursing Assistant, GS-621-5, PD No. 784010N, Code 94 — This position is located in the Occupational Medicine Service of the NWC Long Beach Branch Clinic, China Lake. The incumbent is involved in the emergency care of ill or injured Naval Weapons Center employees, and in an ongoing health monitoring program for employees working in hazardous trades with hazardous materials. The incumbent will maintain records of employees requiring health monitoring, schedule such examinations, do patient screening, including history and exposure records, take vital signs, draw blood samples, and refer patients to the physician as necessary. Prepares written monthly reports accurately reflecting number of patients seen, treatments performed, referrals, etc. Receives supervision from the senior nurse officer and administrative guidance from the administrative officer of the Branch Clinic, but functions independently within his/her capabilities. Job Relevant Criteria — Experience in emergency or treatment room; knowledgeable of advanced first aid; basic knowledge of signs and symptoms of occupational illness; must have pleasant personality, and be able to deal tactfully with people. Status eligible will be considered.

File applications for the above with Tina Rockdale, Bldg. 34, Rm. 204, Ph. 2674 / 2722.
Electronics Technician, GS-854-8 / 9 / 10, PD Nos. 7835040N / 7835041N / 7835039N, Code 3553 — Applications will be accepted from both NWC employees and status eligible. This position is located in the Threat Radar Evaluation / Development Branch, Countermeasures Division, Electronic Warfare Department, with duty station in the Randsburg Wash Test Area. Duties are operating, aligning, calibrating and repairing one-of-a-kind threat radar systems that are used in the test/evaluation of electronic warfare and associated optical/electro-optical devices and tactics. An incumbent must establish and maintain compatible electronic interfaces on assigned radar subsystems, and assist in providing technical expertise to engineers responsible for modification of the threat radar systems to which assigned. Job Relevant Criteria — Knowledge of radar subsystem design; troubleshooting experience with radar subsystems; systems; experience using test equipment to include RF sweepers, spectrum analyzers, frequency synthesizers, IC analyzers, pedestal servo system analyzers. Ability to work well with others in pressure situations. Demonstrated ability as a radar operator. Promotion Potential: GS-10. Previous applicants will be considered without reapplying.

Electronics Technician, GS-854-5/6, PD Nos. 7835024N / 7835038N, Code 3553 — Applications will be accepted from both NWC employees and status eligible. This position is located in the Threat Radar Evaluation / Development Branch, Countermeasures Division, Electronic Warfare Department, with a duty station in the Randsburg Wash Test Area. Duties are the adjustment and calibration of the circuitry of a subsystem(s) of a one-of-a-kind threat radar system that is used in the test/evaluation of electronic warfare and

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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 fullfills Sunday obligation 0830 1130
Sunday 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 First thru 6th grades 1015
Sunday Pre-school & kindergarten 1115
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
CHAPEL ANNEX 95
Sunday Services — (Sept.-May) 1930

China Lake Tennis Club sets summer tournament dates

The China Lake Tennis Club and Special Services Division will sponsor a summer doubles tournament on the weekend of July 29 and 30 at the Cerro Coso Community College tennis courts. The tournament is open to all persons holding a Special Services activity card or a Youth Center card and to those on active military duty.

It will be a single elimination tourney with a consolation bracket for the first round losers. Six events are scheduled, including men's doubles, women's doubles, and mixed doubles.

Trophies will be awarded to the winner, runner-up and consolation winner in each event. The entry fee is \$2.50 per person per event for CLTC members and \$3.50 per person per event for all others.

Each team must furnish one can of new, optic yellow, USTA approved tennis balls.

Participants may sign up at the NWC gymnasium office, Monday through Friday between 8:30 a.m. and 3:30 p.m. All entries must be received by 4 p.m. on Wednesday, July 26.

Swim team plans anniversary banquet July 31 at COM pool

The Indian Wells Valley Swim Team will hold a 20th anniversary banquet at the Commissioned Officers' Mess pool Monday, July 31.

The event will begin at 5 p.m. with a children's swimming exhibition, and a buffet will be served at pool side starting at 6:30.

Following the buffet, awards will be presented to children based upon the number of points they have won in swim meets they participated in during the year.

About 50 are expected to attend the fete. Tickets will be sold to adults for \$4.95 and to children under 12 years old for \$3.95.

The IWW Swim Team is now sponsored by the Naval Weapons Center Special Services Division; however, for 18 years, it was administered through the voluntary efforts of its founders, Carol and Dick Chatterton.

Rec. Round-up...

(Continued from Page 6)

warrant the extra hour of swimming, it will be continued. If not it will be curtailed.

Minvielle Pool Regs

Officers and Chief Petty Officers who wish to use the swimming pool at the Minvielle Park recreation area are required to have swimming tags purchased from either the COM or CPO Club.

Requests for use of the swimming pools on the Center for parties must be submitted at least two weeks in advance in order to insure that lifeguards are available during the time the party is in progress.

Softball league...

(Continued from Page 6)

last week, the Homestead shut out the Marauders, 20-0, and the Zephyrs blasted CSC, 28-18.

Results of other games played last week in the Men's Slow Pitch Division were: Knights 15, Shacklets 5; Pizza Villa 17, Bird Olds 7; Sports Etc. 21, NWC O's 11; Knights 16, Grand Good 6; VX-5 10, Rat Pack 3; Villa 16, NWC OS 6, and Bird Olds 12, Black Sheep 1.

Little League...

(Continued from Page 6)

on the mound.

The Cubs were led by James Burkhart, who tallied 3 of his team's 14 runs.

During the Mets 18-10 win over the Padres, Ray Auger scored 4 runs in 4 times at bat, while three of his teammates — Kim McCarty, Gavin Lloyd and Grant Jones — tallied 3 runs each.

employee in the spotlight

By Dan Tikalsky

What does a mathematician do that's exciting? Well, if the mathematician is the week's employee in the spotlight she gets "wrung out" in a F-4 Phantom jet, flies in a Cobra attack helicopter during combat maneuvers and shoots the Colorado River rapids.

She also lives on a 20-acre ranch where she raises horses and trains half coyote dogs; and she back-packs in the High Sierras.

Linda Lincicum, a Systems Development Department mathematician, looks more like a mathematics teacher than an adventuresome outdoors woman.

Actually, when she was graduated from Northeastern State College in Tahlequah, Okla., in 1966 with a BS in mathematics, she was afraid teaching was to be her fate.

"I never wanted to teach," she said, "but didn't know what else a mathematician does. I liked math so I took it in school. After I graduated, I asked myself 'Now, what am I going to do?'"

She discovered that there were lots of things a mathematician could do at China Lake — both on and off the job — when she began working here shortly after her graduation.

"I was raised in lush country with lakes, rivers and trees, so when I first saw China Lake I was shocked. It looked horrible to me. But now I adore it; I love the desert. Within six months I was totally addicted," she said.

Linda was born and raised in Muskogee, Okla., and had always lived in the city; however, as a child she had a passionate desire to own a horse. That wish was fulfilled as a result of her job here.

"I was wild for a horse, and when I grew up I never got over it," she said. "Suddenly I was making real money — so I bought a horse and boarded it in Ridgecrest."

Desert turned into ranch

Two years ago, she decided she wanted a ranch; so, she bought 20 acres of sagebrush and creosote 10 miles north of Inyokern and started to turn it into one.

Now, she has three horses (an Appaloosa mare gave birth to a colt two months ago), two dogs (one half coyote), and 25 chickens (up from an original gift of five old hens).

A friend gave her the hens so she could train her dog to repress its natural, coyote instincts for raiding the neighbors' chicken coops. But, the hens started laying eggs, and that really brought Linda's latent farming instincts to the surface.

"Everybody else out there was just eating puppy chow and alfalfa and doing nothing. Suddenly, there were those little 'fellas' laying eggs all over the place," she said. She bought and raised 20 chicks.

Living alone in a used trailer and with help from friends, Linda has slowly turned the 20 acres of virgin desert into a fledgling farm.

"Everything grows out there," she said. "It's marvelous! When I first moved out there, my friends said that I didn't know what I was taking on. They said, 'You're not thinking of moving out there by yourself?'"

But neither skepticism nor false fears stayed Linda — why should they? After all, she has corkscrewed through the sky at

Linda Lincicum



"The first time, I was terrified. I was sick most of the time."

supersonic speeds in a jet fighter, hedge-hopped in a helicopter and raced rapids on the Colorado.

A far cry from teaching "a + b equals a + b" in a stuffy classroom — Linda's job as a mathematician at the Naval Weapons Center involves analysis of aircraft structures and powerplants in a search for ways to improve their mission performance and safety.

This means she has to know what it's like to fly in an airplane — specifically the kinds of aircraft she analyzes — combat aircraft. It's not too difficult to get a hotshot pilot to check out a pretty mathematician; but, the Navy says it's not that easy. Before she could fly in a Phantom, she had to go through familiarization training at San Diego. This included a stint in an altitude chamber and getting popped out of an F-4 canopy in an ejection seat at 7Gs.

But the real thrills were to come. Getting wrung out in a Phantom is "a whole new set of feelings," Linda said. "Airliners are one thing, fighter planes another!"

Introduced to combat maneuvers

Her two flights in the front seat of an F-4 were intended to introduce her to — in training manual jargon — an "air combat maneuvering environment." This meant Cuban half-8s, snap rolls, full loops, sustained 6-G pull turns and breaking the sound barrier.

As a bonus, one of the jets lost a hydraulic system and its brakes, giving Linda the "opportunity" to experience an arrested landing.

"The first time I was terrified. I was sick most of the time. The pilot said if I threw up in the oxygen mask I'd have to clean it up, so I kept things under control."

"I think I was sick because I was scared. The second time was wonderful, especially the full loop over Death Valley," she said.

Presently, Linda is conducting helicopter survivability studies and has turned in her G-suit for white knuckles, which she got clutching the seat of a Cobra assault chopper as it went through a series of tree-top level combat maneuvers.

"I kept asking the pilot if he was sure his altimeter was working!" she said.

She relaxes by running river rapids

Linda likes to get away from the excitement of her job and the drudgery of repairing wind damage and water line leaks on her ranch by relaxing on vacation — like, running the Colorado river in a rubber raft!

Two years ago she took a 7-day trip down through the Grand Canyon and loved it. Rapids are rated from 1 to 10 on the "white-water meter," and Linda's trip included two No. 10s.

"You really get beat around; it's so exciting. The river is roaring and boiling all around you, and it looks like it's coming right down on top of you."

Linda's job involves conventional travel, too, and lots of it. She attended a conference in Australia and got to see something she had always wanted to see: a fighting kangaroo, maybe? Not on your life! It was a cuddly Koala bear.

Public Works Department gas station to move to new location

The Public Works Department will switch its service station operations to the old Navy Exchange service station on Monday. Simultaneously, Public Works gas pumps will only dispense unleaded gasoline.

The old Navy Exchange service station is located west of the Special Services Division's package store near the NWC main gate.

All vehicles manufactured in 1975 and later have gas tanks equipped to handle

Registration open for youth bowling clinic

Registration is now underway for a bowling clinic for youngsters 8 through 14 years of age that will be held on Aug. 4, 11, 18 and 25, from 9 to 10:30 a.m., at Hall Memorial Lanes.

Signups are being handled at the youth gym, and Youth Center members may attend the bowling clinic free of charge. Non-members are required to pay a \$5 fee.

only the smaller, unleaded pump nozzles. Up to now, drivers of these vehicles have had to refill their gas tanks at the Navy Exchange gas station across from the Youth Center.

Pumps at the new Public Works gas station will all have the smaller unleaded pump nozzles instead of the larger ones, which are provided with pumps that dispense regular grade gasoline.



GETTING READY TO OPEN — Workmen prepare the old Navy Exchange service station for occupancy and operation by the Public Works Department. Beginning Monday, all official vehicles will be gassed at the new location which is just west of the Special Services Division's Package store near the NWC main gate. —Photo by Ron Allen

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake, California

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NWC Commander

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



Recreation Round-up

China Lake tennis courts to be closed for resurfacing

The China Lake tennis courts will be closed for resurfacing beginning on Monday, July 24, and continuing through Friday, Aug. 11.

The Recreation Branch of the Special Services Division is sorry about the short notice and any inconvenience to local tennis players which this may cause.

Swim Exercise Class

Another series of swimming exercise classes for women will begin on Tuesday and continue on weekdays through Friday, Aug. 4, at the Chief Petty Officers' Club swimming pool.

The classes will be held in two sessions — from 9 to 10 and from 10 to 11 a.m. — and the instructor will be Carol Williams.

Registration is being handled at the gymnasium office, and there is a fee of \$9 per person.

Swim Lessons Stated

Registration will be held on Monday at the Commissioned Officers' Mess swimming pool for another series of swimming classes for youngsters 4 years of age and over.

The instruction will begin on Tuesday and continue on weekdays for the next two weeks. There is a charge of \$10 per student, which is payable at the time of registration.

Participants will be divided into beginning, intermediate and advanced groups depending upon their swimming ability, and the classes (each 30 min. in duration) will begin at 9, 9:30 and 10:45 a.m.

Reminder to Parents

In order to be permitted to swim at any of the swimming pools on the Naval Weapons Center, children between 8 and 12 years of age must have a pool patch, and be accompanied at all times by someone who is over 16 years of age.

CPO Pool Hours Changed

The swimming pool at the Chief Petty Officers' Club, which began the season by closing at 7 p.m., is now open from 11 a.m. until 8 p.m.

This is being done on a one month trial basis. If there is sufficient patronage to

(Continued on Page 7)

Navy runner places in top 30 in race entered by 4,000

Lt. John Everson, a Navy officer assigned to the NWC Aircraft Department's Aircraft Support Division, finished among the first 30 entrants out of a field of 4,000 entered in a 10 kilometer run staged last Sunday by the Santa Monica Track Club.

Lt. Everson covered the distance from Ocean Park to Marina del Rey and back in exactly 33 min. Like all the others who finished the race, he received a T shirt for his efforts.

His wife, Elaine, who also competed in the 10km. run, turned in her best effort over a course that covered this long a distance. She was clocked at 41 min.

At the beginning of the week, Lt. Everson had received calls from a half dozen local area residents who are interested in joining him as contestants in a 10 km. run at Mammoth Lakes on Sunday, Aug. 6.

Others interested in participating in this event can arrange to obtain entry blanks by calling Lt. Everson at NWC ext. 5297 or, after working hours, at 446-5436.

Time Out team maintains slim lead in Women's Softball Division play

The Merchants, who last week were a half-game out of first place in the Women's Division of the China Lake Intramural Softball League, were unable to gain any ground on the division leaders (Time Out) as both teams posted one-sided victories in the only games they played last week.

The Time Out team led by the 6-hit pitching of Gina LaMarca, blasted JD's 24-7, while the Merchants overwhelmed Frisbee, 39-6.

Pam McDonald was the leading hitter for the Time Out squad with 5 hits in 6 trips to the plate. Her night's work included 2 home runs, 5 runs scored and 6 RBIs.

Others whose batting power played a part in the Time Out team's lopsided win were Myrna Martin, whose 3 hits in 3 times at bat included two 3-base blows, and Gina LaMarca, who was 3 for 4 in the hitting department (on a double and 2 singles), scored 4 runs and was credited with 5 RBIs.

Results of other Women's Division games played last week were Flower Shop 9, CSC 3, and JD's 28, Charlie Brown 20.

In the crucial game of the week played in the Men's Slow Pitch Division of the Intramural Softball League, the Homestead team edged the Zephyrs, 7-5.

The Homesteaders got off to a 5-1 lead after two innings of play, but the Zephyrs, who had scored 1 run in the second, added 3 more in the fourth and another in the fifth inning to knot the count at 5-5.

The Homesteaders picked up 2 more runs in the sixth inning and shut off any further scoring by the Zephyrs to win by a final score of 7-5.

Homestead's leading hitters were Kelvin McSwain, whose 3 hits in 4 times at bat included a home run and two scores; Glenn Polk, who was 3 for 3 and scored a run; and Bill Sizemore, 2 for 4. Sizemore doubled and scored a run.

Steve Mendenhall led the Zephyrs in the hitting department with a 3-for-3 performance which included a double, a triple and two runs scored.

In other games played by these two teams

(Continued on Page 7)

Pirates win title in Minor Division of Little League

The Pirates, sponsored by the Protestant Congregation of the All Faith Chapel and managed by Bill Workman, won two playoff games last week to emerge as the 1978 champions in the Minor Division of the China Lake Little League.

In a game which decided the winner of the first half of the season in the Minor Division, the Pirates defeated the Cardinals 13-7. In the battle for the second half title, the final outcome was Pirates 14, White Sox 5.

During the Pirates win over the Cardinals, the division champs were led by Robert Black and Pat Vacca, who tallied 3 runs each, and by Brian Lloyd, who had 3 hits.

Pitchers Do Well

Pirate pitchers Vacca and Scott Schroeder allowed just 2 hits between them, but issued 11 bases on balls.

A triple by Black with the bases loaded was the big hit of the game for the Pirates in their 14-5 win over the White Sox. Black also singled and drew a walk in two other trips to the plate in this game.

Lloyd, who was the winning pitcher for the Pirates, aided his own cause by scoring 3 runs. One of the 2 hits given up to the White Sox by Lloyd was a bases loaded double by Jeff Lillywhite. Lloyd also issued 5 walks and hit two batters with pitched balls.

Farm Division Results

Two regular season games that ended the second half of play in the Farm Division of the China Lake Little League were played last week, as well as a playoff game to determine the second half champion.

Results of the regular season games were Mets 18, Padres 10, and Angels 20, Cubs 10. The playoff tilt which decided the second half championship was won 15-14 by the Mets over the Cubs.

Ray Auger and John Pepper tallied 3 runs each for the Mets in their victory over the Cubs which decided the second half title. The winning pitcher was Kirk Manley of the Mets, who allowed the Cubs to get just one runner on base during his two-inning stint

(Continued on Page 7)

NWC team eliminated early from 11th ND slow pitch tourney

A slow pitch softball team representing the Naval Weapons Center suffered two defeats by lopsided scores in last week's 11th Naval District tournament held at Port Hueneme.

The China Lakers, who committed 17 errors in the outfield during the two games they played, were defeated 12-2 by the Seabees from Port Hueneme in their first tourney tilt.

In the second game of this double elimination tourney, the locals were hammered 15-5 by a team from the Pacific Missile Test Center at Point Mugu.

Sam Goode, player-coach of the NWC team, noted that the outfielders had difficulty reaching and then hanging onto fly balls hit in their direction. This was particularly true in the game against Point Mugu as the locals allowed their opponents to score 8 of their 15 runs due to miscues in the outfield which, on two occasions, resulted in 4 runs being scored.

While the China Lakers were having difficulty catching the ball on defense, their hitting also left something to be desired, Goode added. Dennis Hays, catcher, was the team's leading batter with three hits in five times at bat.

Hays, who hit two singles in the game with the Seabees from Port Hueneme, accounted for both of the NWC team's runs in that contest.

The tournament at Port Hueneme was won by a team representing the USS Alamo, with second place runner-up honors going to the Seabees from Port Hueneme. Both teams advanced to the finals of the 11th Naval District slow pitch competition which was held this week in San Diego.

Little League all-star team begins tournament play today

The China Lake Little League all-star team will play the Owens Valley all-stars in a game scheduled to start at 5 p.m. today in the town of Independence.

Game No. 1 of the Area 1 Little League baseball tourney (between Ridgecrest and Bishop) was played yesterday afternoon, and the winners of these first two games will meet to determine the Area 1 championship at 5 p.m. Saturday.

The winner of the Area 1 Little League championship will advance to the District 51 tournament and play its first game next Friday night, July 28, at Rosamond.



Steve Kaupp, manager



Jim Means, coach



Kevin Blecha



Todd Cook



Tracey Gates



Danny Graftan



Steve Hersley



Ricky Hunt



Jamie Johnsen



Mark Kaupp



Dave Killoran



Tim Lewis



Daniel Means



Zan Mendonca



Tommy Savers



Steve Vie



4 STAR ADMIRAL VISITS NWC — Here Monday for briefings on a wide range of current technical programs being carried out at the Naval Weapons Center was Admiral A. J. Whittle, Jr., Chief of Naval Material (designate). Admiral Whittle (in center) is shown above listening to a report on the Surface-Launched Unit, Fuel Air Explosive (SLU-FAE) given by Larry Josephson (at right), the FAE II technical manager in the Ordnance Systems Department's Conventional Weapons Division. SLU-FAE is a weapon developed by the Army for use in breaching a path through minefields. Others in photo are (at left) Capt. D. W. Payne, executive assistant to Admiral Whittle; LCDR. S. R. Holm, the admiral's aide; and Rear Admiral J. T. Coughlin, Director of the Logistics Plans Division, Office of Deputy Chief of Naval Operations (Logistics), who is standing next to Josephson. Admiral Whittle also was accompanied to China Lake by Rear Admiral C. P. Ekas, Deputy Chief of Naval Material for Acquisition.

Assistance offered to Center personnel at mid-day seminars

Room 103 of the Training Center is the setting for a series of lunch-hour (11:30 a.m. to 12:30 p.m.) seminars.

This activity is a part of the Naval Weapons Center's Employee Assistance Program (EAP), and is aimed at benefiting all NWC civilian employees and military personnel.

Dr. David Stewart, an EAP counselor, leads a seminar on Thursday which consists of lecturers and discussions of interest to those with personal or job performance problems such as anxiety, depression, lack of motivation, or loneliness.

How to shift one's energy from upset (anger, depression, anxiety or guilt) to productive action is the subject of the seminars that are held on Fridays by Lynn Lacey, EAP advisor, and Jack Chandler, of the Desert Counseling Center.

The Friday seminars are open to all NWC personnel.

Death on desert...

(Continued from Page 1)

supply of water and proper tools for emergency repairs to their vehicles.

Although it is not known if Zarp had sought relief from the sun inside his car, his body was found sprawled on the front seat. The interior of an automobile can be raised to oven temperatures by the hot desert sun.

Guard Daley discovered Zarp's car and body late Saturday evening when he was scouting an area outside his normal territory and several miles distant from usual patrol roads.

There was no indication that Zarp had informed anyone of his plans to drive through the rarely traveled area in order that authorities might be alerted if he was late arriving at his destination.

An examination of the body revealed that Zarp had been dead for several days and had apparently died from heat exhaustion and exposure.

Advertisement for U.S. Savings Bonds with image of a family and the text 'Dreams come true with U.S. SAVINGS BONDS'

EEO efforts to be directed by new Deputy Ass't Sec. of Navy

Opportunities for blacks in the Navy are greater than ever although much remains to be done, according to Secretary of the Navy W. Graham Claytor, Jr., who said a new Deputy Assistant Secretary of the Navy would be appointed to direct equal opportunity efforts.

"Some of the trends and some of the specific accomplishments encourage me, but there are some problem areas where you and I will need to work harder," Secretary Claytor told a convention of the National Naval Officers Association on July 8.

"In order to underline my strong commitment to equal opportunity, I have decided to reorganize and establish the Navy's Equal Opportunity Program as a single entity... and to create an upgraded new position of Deputy Assistant Secretary of the Navy for Equal Opportunity," he said.

Specific goals include 12 percent blacks in the Navy compared to the present 8.6 percent. He said that the percentage is increasing each year with the latest recruiting figures showing that 12.3 percent of new recruits are black.

"We have tried to ensure that all minorities recruited into the Navy have an equal shot at not only attending 'A' School, but also successfully completing the course of instruction," he explained, "Black

representation at pay grade E-4 and above continues to increase and I'm greatly encouraged by this trend," the SecNav stated.

He cited figures showing that blacks make up two percent of the Navy's officer force and said the percentage was increasing slowly. Of black officers in the Navy, four are flag officers and 22 others fill command or executive officer billets. Problems noted were:

"We are not making comparable strides elsewhere in minority communities, especially the Hispanic community. We are working on solutions," he said.

Other problem areas are low applications for the Naval Academy and NROTC from black high school students, and a shortage of senior black women officers.

He interpreted the Supreme Court's recent decision in the Bakke case as leaving the legality of major Navy military and civilian Affirmative Action Programs unchallenged. He noted that the government must be very careful not to allow the Bakke decision to be used as a pretext for lessening the Federal Government's support of affirmative action principles.

Program stressing need for motorcycle safety slated Aug. 2

The number of motorcycle accidents that have occurred recently is of concern to the Naval Weapons Center Command.

In an effort to reduce such accidents, a special program is being planned on Aug. 2 for all personnel (military and civilian) and their dependents who ride motorcycles.

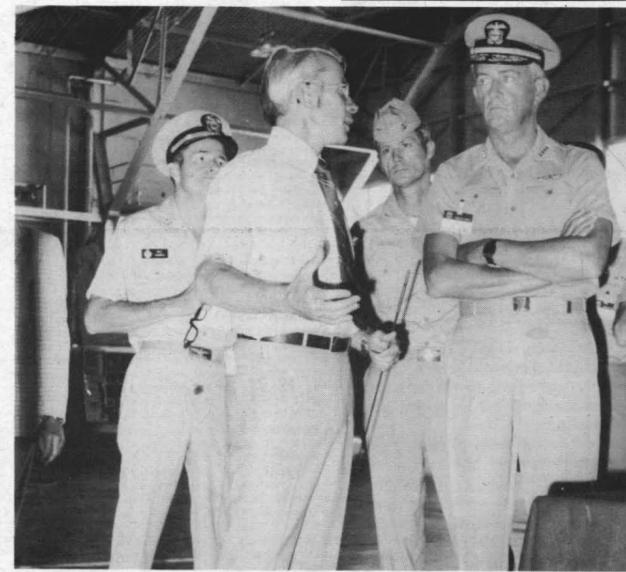
The program will begin with an introduction by Capt. F. H. M. Kinley, NWC Vice Commander, who will discuss this concern and the need for motorcycle safety. Other speakers will be:

Lt. I. G. Erskine, Commander of the Mojave Area of the California Highway Patrol, who will speak on motorcycle accidents, hazards and training, and Capt. R. W. Taylor, officer-in-charge of the Branch Medical Clinic, who will discuss the problems of motorcycles from the medical standpoint.

In addition, members of the Motorcycle Safety Committee will be present to discuss questions that may arise, and an excellent film from the Motorcycle Safety Foundation will be shown.

It is expected that all motorcycle riders, both on road and off-road riders, will attend this Command-sponsored event, which will be held at the Community Center Cactus Hall at 10 a.m. and again at 1 p.m.

A special door prize will be given to a lucky attendee of this event. The prize will be a dinner for two at one of the clubs on the Naval Weapons Center. There will be more information about this program in next week's ROCKETEER.



LASER WEAPONS SYSTEMS DISCUSSED — A report on laser weapons systems in the Navy and what the Naval Weapons Center's contribution has been to these weapons was given by Werner Hueber during a presentation made Monday to Admiral Whittle. Hueber is head of the Systems Development Department's Laser / Infrared Systems Division. In the background are Rear Admiral William L. Harris, NWC Commander, and Capt. Payne, executive assistant to Admiral Whittle. —Photos by Ron Allen

Grant Williams to leave for new job in office of CNO

A farewell dinner was held last night at the Commissioned Officers' Mess for Grant Williams, NWC's Deputy Equal Employment Opportunity Officer, who will be leaving China Lake during the coming week for a position in the office of Chief of Naval Operations in Washington, D.C.

Williams, who has been head of the EEO Office at China Lake for the past two years, is stepping into a new job as an EEO program specialist with an office located in the Pentagon.

His duties here, until a new DEEOO can be hired, will be handled by Pat Sprankle, a personnel management advisor in the Personnel Department.

There are 104 commands, including the various Naval Districts and Fleets of the Navy, that report directly to the CNO, Williams said, and his new responsibilities will include insuring that EEO programs and directives are carried out by all those who come under the jurisdiction of the CNO.

Another of the things Williams will be doing is conducting a pilot program pertaining to the assignment of Navy women



Grant Williams

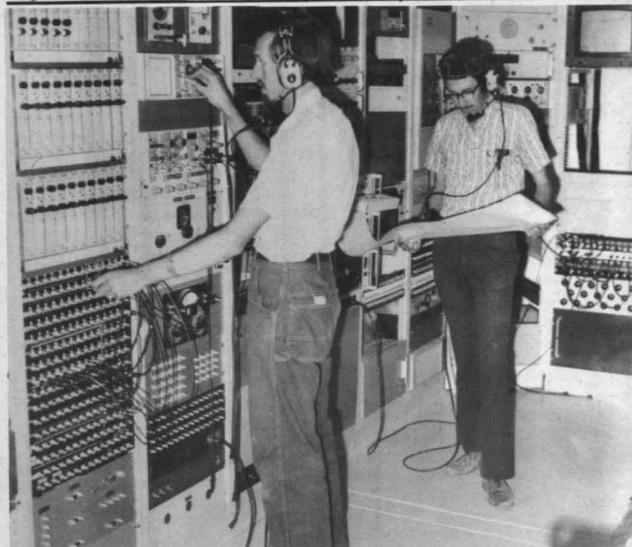
officers and enlisted personnel on board ships.

Williams, who has been a Civil Service employee for five years and an EEO officer or deputy EEO officer for all of that time, served as a minority affairs officer with the rank of lieutenant junior grade while on active duty in the Navy. He is still in the Naval Reserve as a chief warrant officer.

While on active duty in the Navy between 1963 and 1974, he took advantage of the opportunity to pursue higher education and received a bachelor's degree in psychology from the State University of New York at Albany and a bachelor's degree in sociology from the University of Buffalo.

He also has taken additional studies leading to a master's degree in human relations.

Williams will be accompanied to the nation's capital by his wife, Nancy, their two sons, Troy, 16, and Dana, 14, and a daughter, Shonna, who is 6 years old.



TEST DATA MONITORED — Electronics engineers Larry Jenkins (at left) and Don Watke monitor data coming into one of two digital data acquisition systems in the instrumentation room of the Aircraft Survivability Test Facility.

Stock car 'slalom' for military slated at Port Hueneme

Military stock car racing fans are invited to a "car slalom" at the Port Hueneme Naval Construction Battalion Center on Sunday, July 23.

The first 200 applicants will be allowed to compete. The deadline for entering this event was this past Tuesday.

Competition in six categories will be divided into men's and women's divisions: imports with engines over 2300cc, Stingers 1963-78, American-made 8-cylinder cars, imports with engines under 2300cc, American four and six cylinder cars and American 8-cylinder intermediate and full-size sedans.

Car slaloms usually involve small sports cars, but the Port Hueneme invitational race is open to nearly every make of automobile.

A \$5 entry fee will be charged and entrants will be selected on a first-come-first-served basis. Spectators will be admitted free.

More information on this event may be obtained by calling the Port Hueneme CB Center Special Services office on 805-982-4890 or Autovon 360-4890.

Fuel ingestion tests conducted ...

(Continued from Page 1)

NWC's facility is the first and only facility which can support such a wide spectrum of high hazard testing without sacrificing sophistication in data acquisition and other instrumentation.

"We are generally set up to conduct gunfire testing designed to simulate combat conditions during which we subject the aircraft subsystem target to various threats. However, we are not limited to just that," Stull continued. "Because of the inherent design of the facility we can evaluate aircraft/engine response to almost any imaginable hazard or hazardous condition without necessarily destroying the test specimen in the process," he added.

Air Flow Important to Tests

The test facility has the capability of producing air flow to velocities in excess of 400 knots via the DASH (Dynamics Air System — Hybrid). This is of great importance, Stull pointed out, because air flow has been found to be a very significant factor in determining system response to various threats, including fuel ingestion.

The aircraft fuel ingestion test project is of such complexity that it requires close to maximum use of Aircraft Test Facility resources, and the demands placed on the facility in connection with this work resulted in improvements to the facility itself, Stull continued.

Because of the unique problems faced when attempting to determine the causes for and remedies to the difficulties attributed to fuel ingestion by jet aircraft, project personnel had to design and develop their own data acquisition system. This was done by Robert L. Fowler, a physicist in the Systems Development Department's Computer Sciences Division.

Data Reduction Time Cut

This particular system, which made it possible to reduce fuel ingestion data reduction time from about a month to 4 hours, (camera ready, computer-generated plots) was designed, developed, tested and made ready for use by Fowler in about six weeks. It is still in operation and will be used extensively in future test programs.

Stull, an aerospace engineer, is responsible for and runs propulsion system survivability/vulnerability activities with his co-worker Dean Bergevin in the Systems Survivability Branch (Code 3183).

This multi-faceted test effort also involves Larry DeBold, head of the Survivability/Lethality Facilities Branch, and other personnel in this branch of the Systems Development Department; employees of the Ordnance Systems Department, and workmen of the Vought Corp., a Navy contractor, as well as the Ballistic Research Laboratory, Aberdeen, Md.; the

Naval Air Propulsion Center, Trenton, N.J.; the Air Force Aeropropulsion Laboratory at Wright-Patterson AFB in Dayton, Ohio; and the National Aeronautics and Space Administration's Lewis Research Center in Cleveland, Ohio, and the Ames Research Center at Sunnyvale, Calif.

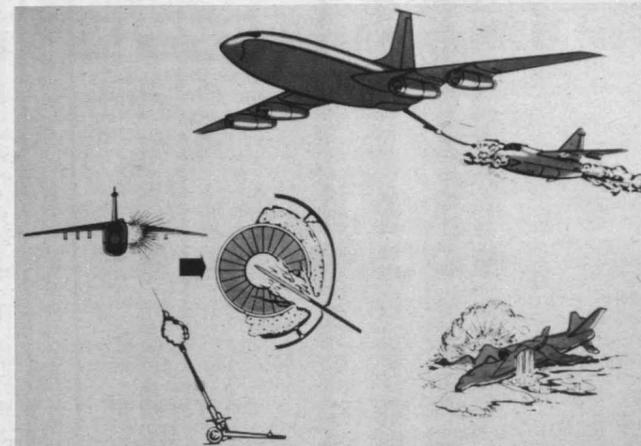
The scope of the propulsion test work being undertaken ranges from fuel ingestion testing and response of aircraft engines to warhead detonation to studying the problem of titanium fires in jet engines. In addition, Centerites are looking at how new electronic fuel controls for aircraft engines can be interfaced with survivability-biased microprocessors that will enable the system to diagnose its own combat damage induced ills and automatically take corrective action.

Information Provided to FAA

Data also is being provided to the Federal Aviation Administration, which is interested in determining how significant a factor fuel ingestion may be in post crash fires of commercial aircraft.

"We work closely with aircraft engine manufacturers in order to keep them informed about our survivability/vulnerability findings, engine component testing and proposed engine design recommendations and changes.

"The bottom line," Stull said, "is the development of engine survivability enhancement design criteria by means of sophisticated test methods and analysis, in conjunction with convincing manufacturers that they should take these criteria into consideration when designing new aircraft engines."



FUEL INGESTION SCENARIOS — Fuel ingestion can be caused by fuel spillage during in-flight refueling operations (upper right), by enemy action, and during crash landings when fuel spills occur.

New books listed at NWC library

A complete list of new books is available in the NWC library. Library hours are Tuesday thru Friday: 1-9 p.m.; Saturday: 12-6 p.m.

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

FICTION

- Penelope Gilliatt — Splendid Lives.
- Alan Harrington — Paradise 1.
- Peter Lovesey — Waxwork.
- Pamela Russell — The Woman Who Loved John Wilkes Booth.
- Donald A. Stanwood — The Memory of Eva Ryker.
- Robert Ward — Cattle Annie and Little Britches.

NON-FICTION

- Ray Bradbury — Where the Robot Mice and Robot Men Run Round in Robot Towns.
- James Lincoln Collier — Making of Jazz.
- Lauren Elder — And I Alone Survived.
- Nancy Friday — My Mother My Self.
- Henry O. Golightly — Managing With Style; and Making It Work For You.
- Ronald Sanders — Lost Tribes and Promised Lands; the Origins of American Racism.

Promotional Opportunities . . .

(Continued from page 2)

associated optical/electro-optical devices and tactics. An incumbent receives extensive training in radar operation, test equipment and radar circuitry, both formal and on the job, to enhance his/her knowledge of electronics. Job Relevant Criteria — Knowledge of basic electronic theory.

Working knowledge of circuitry used in radar subsystems; troubleshooting experience with electronic circuitry; experience using basic test equipment, such as multimeters, oscilloscopes, power meters, frequency meters. Ability to take direction, to work in stressful test environment, to be sufficiently dependable to meet test requirements, to cooperate with peers. Promotion Potential: GS-10 Previous applicants will be considered without reapplying.

Clerk (DMT), GS-316-3/4, PD No. 7435901N, Code 3521 — This position is that of Clerk (DMT) located in the Microwave Radiometry Branch, RF Development Division of the Electronic Warfare Department. The incumbent will type from dictating machine, rough draft or handwritten copy all types of letters, charts, memoranda, official correspondence, reports and forms. Secondary duties will include answering phones, placing and receiving long distance calls, receiving visitors, arranging for travel, keeping timecards, sorting and distributing mail, and other office duties. Job Relevant Criteria — Ability to type accurately and efficiently; knowledge of Navy correspondence regulations and format; ability to work independently; knowledge of grammar, spelling and punctuation; knowledge of engineering terminology.

Firefighter, GS-881.5, PD No. 7284914, Code 242 — This position is located in the Fire Division of the Safety and 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, structural pumps, crash fire trucks, pumping systems, nozzles, rescue equipment). Driving ability (proper use of gears, clutch and brakes, demonstrated safe, smooth and effective operation of vehicles). Knowledge of fire prevention practices with regard to building inspections and ability to identify fire hazards. 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 January 1979.

File applications for the above with Charlotte Siewickowski, Bldg. 34, Rm. 206, Ph. 2118.

Engineering Technician, GS-802-10, PD No. 7838020N, Code 3883 — This position is located in the Propulsion Research Branch, Aerothermochemistry Division of the Research Department. Incumbent is the technician on several research programs involving combustion studies; confers with the project engineer as to what new hardware or hardware changes are required; designs and fabricates the necessary equipment; prepares the setup for testing, and is responsible for running the test. Job Relevant Criteria — Knowledge of liquid and solid propellant characteristics, experience in design adaptation and fabrication of laboratory rocket motors; knowledge of machining operations (lathes, milling machines etc.), and ability to interface on technical subjects with scientists and engineers. Promotion Potential: GS-11.

Clerk-Typist, GS-322-3/4, PD No. 7831925, Code 3144 — This position is in the A/C Weapons Control Systems Branch of the Systems Development Department. The incumbent will type technical notes and reports, forms, correspondence, interface memorandum, etc; receives telephone and office calls; receives and distributes branch mail; maintains supervision; makes travel arrangements etc. Job Relevant Criteria — Ability to type efficiently and accurately; reliability and dependability; ability to meet deadlines under pressure; telephone answering skills. Applications will be accepted from status eligibles.

Interdisciplinary, GS-917-12, PD No. 7831096, Code 3142 — This position is interdisciplinary in any of the following series: Mathematics, GS-1520; Physics, GS-1510; Electronics Engineer, GS-855. It is located in the A6/A7 Simulation Branch, Avionics Division, Systems Development Department. The incumbent is responsible for the specification, design, testing, and day-to-day operation of the A7 Simulation Facility. This includes hardware and software development, scheduling, providing facility demonstrations, and coordinating contractors for maintenance. Job Relevant Criteria — Ability to develop computer simulation systems, knowledge of Fortran and assembly languages, ability to perform systems analysis, knowledge of real time processing. Applications accepted from status eligibles.

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

Clerk-Typist, GS-322-4, PD No. 7000070N, Code 00 — (Intermittent) All status eligibles are accepted — This position is intermittent within the Office of the Commander, including Codes 00, 01, 02, 03, 003 to provide clerical support as needed. The incumbent will perform such duties as typing various kinds of correspondence, answering telephones, opening, screening and routing mail, maintaining files and greeting visitors. Job Relevant Criteria — Ability to type efficiently and accurately, ability to deal tactfully with people, knowledge of Center organization and policies. Status eligibles accepted.

File applications for the above with Cathy Rivera, Bldg. 34, Rm. 206, Ph. 2723.

Documentation Reproduction Manager, GS-1461-9, PD No. 7831138E, Code 3451 — Position is that of Section Head of the Reproduction and Distribution Section of the Data Acquisition and Control Branch, Technical Data Division, Engineering Department. Incumbent oversees the processing, reproduction, and distribution of engineering documentation for equipment / weapon systems for which Naval Weapons Center has technical cognizance. Services provided by the section (including contracted services) include reproduction, storage and retrieval of engineering drawings, specifications, and related documentation; insuring incorporation of revisions to same, preparation of microfilm aperture cards used for distribution of drawings and other documentation, and wrapping and mailing materials in accordance with applicable regulations. Job Relevant Criteria — Knowledge of engineering documentation reproduction, storage, and distribution procedures including appropriate contract provisions; ability to deal effectively with personnel of serviced organizations and contractors; ability to supervise a small clerical staff. File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2925.

Summer employees represent wide range of talent

This has been a boom year for the hiring of summer employees at the Naval Weapons Center with no less than 311 such positions now filled.

According to Sue Prasolowicz, the summer employee program coordinator, the tremendous personal interest and



ASSISTS PROGRAMMERS — Ed Kollmeyer, a deaf student who is in his junior year at Gallaudet College in Washington, D.C., is assigned to the Advanced Business Systems Division of the Office of Finance and Management. His hearing loss is no handicap for him when it comes to preparing financial reports using a computer, or writing software programs. During the summers of 1975 and '76, he was a summer employee in the Engineering Department's Technical Data Division.

support of Rear Admiral William L. Harris, NWC Commander, who has pushed for maximizing summer employment opportunities, this is the most dynamic and productive program in years. The total of 311 now filling summer jobs is a sizeable increase over the 119 summer hires in 1977 and the 157 who were employed in 1976.

The summer employees range from young people of high school age to postgraduate level college and university students and faculty members.

In the latter category, a personnel psychologist is working with Clara Erickson at the Training Center, two biologists are assigned to Tilly Barling, head of the Natural Resources Office, and there are two motion picture production specialists working in the Film Projects Branch of the Technical Information Department.

In addition, the group of eight college and university postgraduate level students and faculty members includes a recreation

Gov't vehicle wash service set up by Transportation Div.

A government vehicle washing service is now being provided by the Transportation Division of the Public Works Department.

The service includes interior vacuuming and window cleaning on an assembly-line basis. Except for the windows, vehicles will not be wiped dry.

The time required to complete the service depends upon the size of the vehicle involved, but the maximum time set for washing a pickup truck is 10 to 15 minutes.

The washing apron is located south of Bldg. 01197 in the Public Works Department transportation compound. The work is being performed by summer hire personnel, which means that the service will be discontinued with the start of school in the fall.

A waxing service is also available. Both the wash and wax jobs will be performed by appointment only between 7:30 a.m. and 3 p.m. weekdays.

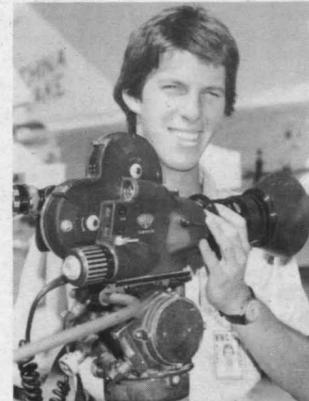
Appointments may be made by calling NWC ext. 2353. If a vehicle is to be waxed, that service must be requested at the time the appointment is made.

All trash and cargo that is not waterproof must be removed from the vehicle before it arrives at the wash apron, and operators must remain with their vehicles during the cleaning process.

assistant who is supervising the lifeguards on duty at various swimming pools on the Center, a mathematician and a systems accountant.

The largest group of summer employees (127 in all) are those working as clerks and clerk-typists who can be found in nearly every department at China Lake. They qualified by taking the summer employment examination which was offered during the early part of this year.

There are more than 60 technical aides among the current total of 311 summer employees. There is no examination to



CINEMA MAJOR — David Kellogg, a graduate student at the University of Southern California, where he is majoring in cinema, is employed this summer as a motion picture production specialist in the Film Projects Branch of the Technical Information Department. Kellogg, who is a resident of Los Angeles and has a bachelor's degree from Washington University in St. Louis, Mo., also worked here as a summer employee last year.

quality for work as a technical aide — instead applicants are rated and ranked according to their grade point average in college or university level studies, or upon their prior experience, since work as a technical aide is not limited to college students.

Ms. Prasolowicz rated and ranked the



CLERK TYPIST — This is the fourth year as a summer employee at the Naval Weapons Center for Barbara VanBuskirk, who is now helping with clerical work in the Fuze and Sensors Department's Design and Documentation Branch. Miss VanBuskirk, who was born in the local area and was graduated from Burroughs High School in 1975, will be entering her senior year at Cal-State University in Long Beach in September. She is majoring in ceramic art.

applicants for technical aide jobs, assisted by Melissa Dukes, who is a Co-op employee — one who, under an agreement between the Naval Weapons Center and certain colleges, works here part of the year and is a college student for the remainder of the year.

The variety of jobs filled this summer by technical aides includes computer, math

and engineering aides, physical science aides in the Chemistry Division of the Research Department, and biology aides in the Natural Resources Office.

Among this year's summer employees are 45 who, because they had worked here previously were accepted without the necessity of having to take the summer employee examination. Their work also falls in the clerical and technical side categories.

In addition, NWC has undertaken to provide meaningful work and teach some basic skills to high school youths (67 in all) from the Indian Wells Valley, the Rand District and Searles Valley. These young people are doing such things as cleanup work in the machine shop, washing cars for the Public Works Department, performing manual labor such as digging ditches, and doing some painting.

This year, for the first time, the abovementioned group (called summer



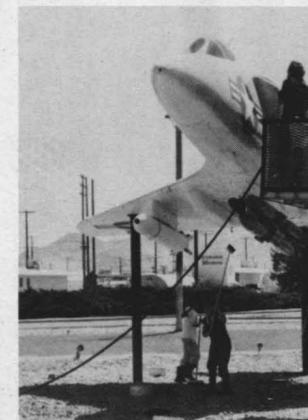
PHYSICAL SCIENCE AIDE — Cindy Bergens, who is majoring in biochemistry at the University of California at Davis, is a physical science aide assigned this summer to the Research Department's Aerothermochemistry Division. Her particular summer project will involve use of the scanning electron microscope in the study of blood samples. As this photo was taken, Miss Bergens was busy with a differential thermal analysis test. She worked here two summers ago — also as a physical science aide — but during that time was an illustrator preparing vu-graphs for the Graphic Arts Division of the Technical Information Department.

aides) also includes young people involved in a pilot program that was developed by Joe Lopez, NWC's Spanish speaking Program Coordinator. Involved in it are five girls and three boys from the Arvin area (near Bakersfield).

Their work varies from clerical duties in Michelson Laboratory to maintenance work at the golf course and jobs as laborers in the Public Works Department. These young people, who range from 16 to 19 years of age, are housed in a section of the Navy

baracks Monday through Thursday nights and are transported to and from Arvin High School each weekend.

Judy Bien and Gary Pickens are the coordinator and assistant coordinator, respectively, for this live-in group. This summer also, NWC has been able to find a place for two young men who are part of a selective placement program for the physically handicapped.



CLEANUP JOB TACKLED — With the aid of a forklift to reach otherwise inaccessible places, a group of summer aides last week took on the job of brightening up the A-4 Skyhawk, which is on display at the traffic circle. —Photo by Ron Allen