

Centerite enters sailing craft in Transpacific Yacht Race

A giant step upward in sailboat racing competition lies ahead for Ruel Cameron, a budget analyst in the Reports and Analysis Branch of the Office of Finance and Management, who has entered his 36 ft. Columbia class sloop "Tahuna" in the Transpacific Yacht Race.

The big race (a maximum of 75 entries is permitted) will begin at 1 p.m. on Saturday off Pt. Fermin (near San Pedro) and most entries are expected to finish around two weeks later when they reach a point just off Diamond Head on the Island of Oahu.

On this year's entry list for the Transpacific Yacht Race is the current record holder, "Windward Passage" out of Portland, Ore. This 73 ft. ketch covered the nearly 2,500 mile distance in 9 days and 15 hours in 1971.

While the direct line distance from Pt. Fermin to Diamond Head is 2,225 miles, the ocean current and winds cause sailing vessels to make a southward swing that takes them nearly 300 miles out of their way, Cameron explained.

Crew members joining Cameron, who is the owner, skipper and navigator of the "Tahuna," will be Charles Dye, head of the Aircraft Armament Division in the Systems Development Department; Tom Gerrard, an administrative officer in the Laser/Infrared Systems Division of Code 31; Dean Alfred, an employee of the Lockheed Corp. in El Paso, Tex., and Tommy Smith and Fred Grote, who are both college students in Sacramento. Three members of his crew will be making their maiden voyage in sailboat racing competition, Cameron noted.

Entries in this year's Transpacific Yacht Race are divided into heavy and ultralight displacement craft. The "Tahuna" falls into the heavy displacement category and is the fourth slowest rated entry in the race.

This year, also for the first time, the



BOUND FOR HAWAII — The "Tahuna," a 36-ft. Columbia class sloop owned by Ruel Cameron, will be tackling its biggest deep water sailing challenge by entering the Transpacific Yacht Race which is to begin on July 2. The crew for the race to Honolulu includes two other China Lakers — Charles Dye and Tom Gerrard.

Honolulu Yacht Club and the St. Francis Yacht Club of San Francisco will sponsor a return race from Honolulu to San Francisco that is scheduled to start on Aug. 12 off Waikiki Beach.

Cameron's plans are to leave the "Tahuna" berthed in the Honolulu harbor for the three to four-week layover between races and return here by air to work until it is time to head back to Oahu to get the "Tahuna" ready for the race to San Francisco.

Since some other members of the crew can be away from their jobs for only the time that it will take to make the crossing from San Pedro to Honolulu, Cameron has lined up three new crew members for the

return boat trip. They are two young brothers, Chris and Stephen Benigno of Irving, Tex., and Guy Wroble from Roseburg, Ore.

Remaining on board the "Tahuna" while it is in Honolulu will be Smith and Grote, who will join the owner and the three new crew members on the race from Oahu to San Francisco.

In addition to its normal gear, lots of safety equipment was added to the "Tahuna" for the Transpacific Yacht Race, the craft's owner said. The 36-ft. sloop heretofore has made three races to Ensenada and one to Mazatlan since Cameron has been its owner.

Valuable learning experience ahead for Sea Cadets

Fun, adventure and a valuable learning experience are in store for members of the Naval Sea Cadet Corps Division, China Lake, who are now preparing to embark on their annual summer training program.

Leading Cadet Ed Crawford during this period will participate in the Corps' foreign exchange program by departing China Lake tomorrow for a two-week tour at Her Majesty's Canadian Naval Station, Quadra, Comox B.C. There he will participate in joint training activities with Sea Cadets from Canada, France, Great Britain and other northern European countries.

During the last two weeks in July, 13 boys will be attending "boot camp" at the Recruit Training Command in San Diego. Cadets Kary Fletcher, Steve Peterson, Greg Tracey, Pat McCammon, Ken Moss, Richard Evert, Jim Dillon and Alan Stratton of Ridgecrest, Mike Kendall, Paul Branum and John Boyles of Trona, LeRoy Stevens of California City and Joe Fees of Inyokern will be attending this first phase of formal training with the Sea Cadets.

During recruit training the youths will receive instruction in seamanship, fire-fighting, swimming, basic maritime skills

and military drill. "Boot camp" is a prerequisite for all other cruises with the Sea Cadets and orients the participants toward teamwork and Navy life in general. As billets become available, additional "boot camp" periods will be scheduled.

On July 25, Cadets Ed Crawford, Nick Gagich and Tony Borjan will depart for a two week cruise on the Fleet frigate USS Meyerkord out of San Diego. During the trip to Seattle, Wash., and the return voyage, they will work with the crew in various parts of the ship to familiarize themselves with Navy life at sea.

Additional training is programmed for Cadet Joe Fees, who will attend the Naval Constructionman School at Seabee Base Gulfport, Miss., during the period of Aug. 1-13. This school provides each cadet with a background in the construction trades and indoctrinates him into the Seabee program. Cruise Planned in August

Time permitting, a cruise of 5 to 10 days' length is also anticipated in August for all the youths of the local Sea Cadet unit. This important training period will allow the cadets to put into practice the skills they gained in boot camp, will encourage teamwork, and provide participants with an opportunity to be with other young people who have similar interests.

The NSCC Division, China Lake, is sponsored by the Indian Wells Valley Council of the Navy League of the United States. The program is open to boys and girls 14 through 17 years of age who are physically and academically qualified. Cadets enrolling in the program undergo academic training in Navy-related fields, plus on-the-job and field training in the construction trades and military drill.

In addition, numerous military-oriented activities are planned for members.

Local youths interested in the Naval Sea Cadet Program may obtain additional information by phoning Lt. Tony Klissus, USN (Ret.), at 375-2085, or by dropping a postcard to the Commanding Officer, Naval Sea Cadet Division China Lake, P. O. Box 1453, Ridgecrest, CA 93555.

SHOWBOAT

MOVIE RATINGS

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

(G) - ALL AGES ADMITTED
General Audiences

(PG) - ALL AGES ADMITTED
Parental Guidance Suggested

(R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian

CS - Cinemascope

STD - Standard Movie Screen

Regular starting time—7:30 p.m.

Program subject to change without notice — please check marquee.

FRI. 1 JULY

"DRIVE IN" (96 Min.)
Lisa Lemole, Gary Cavagnaro
(Comedy) The drive-in of a small Southwestern town is the gathering place where an assortment of characters resolve a series of teenage dilemmas through a variety of comic escapades. The opening scene introduces the central characters as they view "Disaster '76," a spoof of the current cinema catastrophe craze. All the action of the film is then played out against this hilarious film within a film. (PG)

SAT. 2 JULY

Free Matinee
"FORT DODGE STAMPEDE"
1:30 p.m.

SAT. 2 JULY

"BOBBIE JO AND THE OUTLAWS" (84 Min.)
Marjoe Gortner, Lynda Carter
(Action Adventure) The winner of a "quick draw" rodeo competition is a would-be gunslinger (Gortner) who idolizes Jesse James. Stealing a souped-up Mustang car, he leads a state trooper on a wild chase that ends in disaster for the police officer. Gortner meets a drive-in waitress who travels with him through the Southwest. They ask a friend for financial aid and as a result meet some unlawful characters and become involved in illegal activities. (R)

MON.-TUES. 4-5 JULY

"ROCKY" (119 Min.)
Sylvester Stallone, Talia Shire
(Action Drama) A local clubhouse prizefighter gets a chance of a lifetime shot at the world heavyweight title and finds love and self-respect along the way. This engrossing story combines the realization of the American dream of success, pathos, humor and a fine love story. (PG)

WED. 6 JULY

Matinee 1:30 p.m.
"THE BLACK ARROW" (73 Min.)

WED. 6 JULY

"THE ENFORCER" (94 Min.)
Clint Eastwood, Harry Guardino
(Action Drama) This film is another in the "Dirty Harry" series. This time Eastwood is transferred from the homicide bureau and finds himself partnered with a female cop. She proves to be an able partner and he is forced to overcome his male-chauvinist attitude. When she is killed while backing him up in an attempt to free the kidnapped mayor of San Francisco, he deeply mourns her passing. (R)

FRI. 8 JULY

"FLESH GORDON" (68 Min.)
Jason Williams, Susan Fields
(Satire) The time is 1930; the setting is Earth, which has been thrown into carnal chaos by a mysterious ray. The world's top scientists are holding conferences to evaluate the situation. In the meantime, they are awaiting the arrival of Professor Gordon's son, Flesh, who is enroute by plane. But the plane is struck by the mysterious ray, causing it and the passengers to lose control. Parachuting to safety, they encounter a zany doctor who explains he has located a planet called Porno from which the sex ray emerges. This film is a sexual takeoff on the Flash Gordon films and contains fairly explicit sexual scenes. (R)

SAT. 9 JULY

"THE LADY AND THE MONSTER"
Free Matinee 1:30 p.m.

SAT. 9 JULY

"CRIME AND PASSION" (92 Min.)
Omar Sharif, Karen Black
(Drama) Sharif is an international investment counselor who, due to his financial manipulations, is in deep trouble. Trouble instills him with an insatiable sexual urge, demanding immediate satisfaction regardless of time or place. (R)

U.S. Government Printing Office: 1976 — No. 1033

From: _____ PLACE STAMP HERE

To: _____



—Photo by John Dunker

OPENING SOON — Uncle Jocko (Jim Rieger), in auditioning for his kiddie show, lines up (l.-r.) Laura Leet, Becky Malby, Lisa Miller and Tracy Irvine, in this scene from rehearsals of the Community Light Opera and Theater Association production of "Gypsy." This play, concerning the life of famed stripper Gypsy Rose Lee, will be presented at the Burroughs High School lecture center on July 8, 9, 15 and 16, beginning at 8:15 each night. Tickets, priced at \$4 for adults and \$2.50 for students, senior citizens and enlisted military personnel, are on sale at the Gift Mart, Medical Arts Pharmacy and the Imporium, all in Ridgecrest. Area residents are advised not to miss this fun-filled musical comedy.



Fourth of July fete slated at local fairgrounds

Local area residents are invited to join their neighbors for an old-fashioned community Fourth of July celebration on Monday afternoon and evening at the Desert Empire Fairgrounds in Ridgecrest.

No admission will be charged and everyone is welcome. Activities are scheduled to get under way at 3 p.m. and end some time after dark when the Independence Day events will be climaxed by a fireworks display.

Included among the activities that have been planned for children are pie eating and watermelon eating contests, a greased pole climb and tug-of-war. Prizes will be awarded to the winners of these events, as well as to the top contestant in a horseshoe pitching tournament that is open to entrants of all ages.

Shaded Picnic Area Available
A shaded outdoor picnic area is available at the fairgrounds for those who wish to bring their own picnic dinner, and a large barbecue will be ready for use by those who wish to broil steaks or prepare their own hot dogs or hamburgers.

For those who prefer to let someone else do the cooking, there will be hamburgers and hot dogs on sale at the Knights of Columbus booth, and the Ridgecrest Chamber of Commerce will be selling cold beer and soft drinks.

Air-conditioned Joshua Hall, the Desert Empire Fair's main exhibit building, also will be open, chairs and tables will be set up, and Tony Martin, manager of the DEF, Inc., has been busy this past week trying to arrange for music and other forms of entertainment inside the hall for those seeking refuge from the late afternoon heat of summer.

One bit of welcome news on this score is that Mike Garrett and 18 Burroughs High School stage band alumni will be present to play from 7 to 9 p.m. for the listening and dancing pleasure of those assembled in Joshua Hall. The fireworks display will follow this musical interlude.
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July 1, 1977
Naval Weapons Center
China Lake
California
Vol. XXXII, No. 26

Aircraft avionics system being developed for Marines' Night Observation Surveillance plane



FLYING HIGH — This OV-10D Night Observation Surveillance aircraft is now undergoing propulsion flight testing at the Columbus Aircraft Division of the Rockwell International Corp. Its length is 41 ft., 7 in., the wingspan is 40 ft., and it can carry a crew of two (pilot and observer).

Military and civilian personnel at the Naval Weapons Center are combining their efforts to aid in development of the Marine Corps OV-10D Night Observation Surveillance (NOS) aircraft avionics system.

This program is sponsored by the Naval Air Systems Command, Washington, D.C. Responsible parties at China Lake are George Goetz, the project engineer with the Infrared Systems Branch (Code 3153) and Lt. Col. D.E.P. Miller, helicopter/OV-10 projects officer with the Marine Corps Liaison Office at NWC.

This program will add a night and laser designation capability to the OV-10D "Bronco" class aircraft by incorporating FLIR/LRD avionics equipment. The primary mission of this aircraft is reconnaissance, observation, forward air control and other close-air support.

The acronym "FLIR" was derived from "Forward-Looking Infrared." This equipment provides television-like images using the invisible infrared spectrum. It gives the OV-10D operator real-time imagery during the day or night of militarily significant scenes on the ground, such as personnel and vehicles.

Important Addition to Marine Arsenal
This night capability, which is the NOS OV-10D specialty, makes this aircraft a very important addition to the Marine Corps arsenal.

"LRD" stands for Laser Rangefinder/Designator. The laser portion of this device generates an intense pencil-beam of light which is used to designate targets for laser-guided weapons and the angular rate bombing system. The weapons and bombing system operate by tracking the reflected laser energy. Reflected laser light is also used by the LRD's rangefinder to determine range up to 10,000 meters.

The first phase of this program began in 1970 as the Night Observation Gunship System (NOGS), which was installed on a modified OV-10A. The OV-10A has been widely employed for about 10 years as a lightly-armed reconnaissance aircraft specifically suited for various types of support work and has also been provided to free world foreign markets.

First Used in Vietnam
Designated the YOY-10D, two of these modified Broncos deployed to Vietnam in the summer of 1971. Flown by the Marines, the aircraft achieved highly successful combat evaluation in Southeast Asia. The "gunship" aspect, however, was dropped from its name and mission in favor of a role of observation, surveillance and laser designation.

Participation in the former NOGS project by the Naval Weapons Center (a pioneer in the development of FLIR devices since 1964) began in 1970. Personnel here were responsible for the acquisition of the avionics and armament systems and coordination of their installation in the

AIAA Congressional Fellow briefed on varied technical programs here

As part of his preparation for a year-long appointment as an American Institute of Aeronautics and Astronautics Congressional Fellow, Dr. Ailton Keel, Jr., visited the Naval Weapons Center this week.

Dr. Keel, who is manager of the Hypervelocity Research Tunnel at the Naval Surface Weapons Center (NSWC) White Oak Laboratory in Maryland, arrived Wednesday morning and remained until

noon on Thursday.
His introduction to the variety of technical programs being conducted at the Naval Weapons Center included the showing of the general orientation film "Evening Colors," and progress reports by Capt. Frederic H. M. Kinley, NWC Commander, and R. M. Hillyer, acting Technical Director.

During his first day at NWC, he also received an overview of the Center's test and evaluation activities from Capt. S. I. Stocking, acting deputy test and evaluation director, and visited Randsburg Wash.

Other Briefings Presented
In addition, he was briefed on defense suppression by G. R. Schiefer, temporary head of the Electronic Warfare Department, and on the Swimmer Delivery Vehicle and Advanced Air-to-Air Program by D. N. Livingston, associate head of the Weapons Department.

A report on weapons planning by Frank Knemeyer, acting head of the Weapons Planning Group, also was included in the information presented to Dr. Keel, as were overviews on the Propulsion Development, Engineering, Systems Development, Fuze and Research Departments by their respective department heads — Burrell Hays, Dr. G. W. Leonard, R. V. Boyd, R. A. Boot and Dr. Edwin B. Royce.

The distinguished visitor received a bachelor of aerospace engineering degree in 1966 and a Ph.D. in June 1970, both from the University of Virginia. His Ph.D. dissertation research was in the field of rarefied gas dynamics.

After receiving his Ph.D., Dr. Keel was one of 11 national recipients of the Air Force Office of Scientific Research-National Research Council post doctoral research



McLEAN AWARD PRESENTED — George Silberberg received a hearty handshake and congratulations from R. M. Hillyer (at left), acting NWC Technical Director, who presented the William B. McLean Award to him during Monday morning's Center Commander's meeting. Silberberg, a physicist in the Range Department's Range Electronic Development Branch, was away on travel on June 22 when a luncheon was held to honor recipients of the L. T. E. Thompson and McLean Awards. Silberberg was singled out for this special honor in recognition of his "demonstrated excellence in the field of photographic and optical technology and for creative and imaginative contributions and accomplishments in the field of test range instrumentation and measurements."
—Photo by Ron Allen

(Continued on Page 3) (Continued on Page 5)

201 years later, Americans continue to celebrate a freedom that began in . . .



If celebrating our Nation's independence day on the Fourth of July was good enough for Thomas Jefferson, who had a significant role in writing the Declaration of Independence, it should be good enough for us today.



Americans are still marching down mainstreet each July 4th to the tunes of "Yankee Doodle" and "Yankee Doodle Dandy."

It was Jefferson's idea that the Fourth of July should be the United States' primary national day. He set the tone for future celebrations on July 4, 1801, just after he entered the White House.

Festivities Described

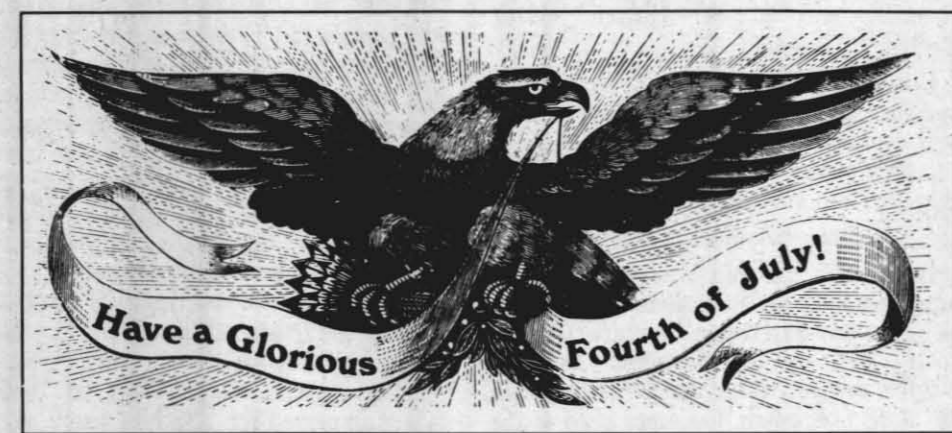
A guest described the festivities: "We found about 20 persons present in the room where sat Mr. J. surrounded by five Cherokee chiefs. After a conversation of a few minutes, he invited his company into the usual dining room, whose four large sideboards were covered with refreshments by this time the crowd had grown to 100. . . . Martial music soon announced the approach of the Marine Corps of Capt. Burroughs, who in due military form saluted the President accompanied by the President's March . . . All appeared to be cheerful, all happy. Mr. Jefferson mingled promiscuously with the citizens. . . . In subsequent years, Fourth of July celebrations have been the highlight of our national calendar. It is interesting to note, however, that if our independence does not stem from July 4, 1776, nothing else

of any national consequence ever happened on that date. For example, George Washington assumed command of the Army besieging Boston on July 2, 1775. On July 3, 1898, the Spanish fleet was destroyed during the Spanish-American War. On July 2, 1921, a joint resolution of Congress declared the war with Germany at an end. On July 3, 1944, the First U.S. Army opened an offensive in France.

One event of interesting consequence, however, did happen on July 4. George

M. Cohan, whose popular songs included "Over There" and "It's a Grand Old Flag," was born on Independence Day in 1878, a fact that he noted in one of his famous songs: "I'm a Yankee Doodle Dandy. . . . Born on the Fourth of July."

Although most of Cohan's more than 100 songs are remembered only by oldtimers, his "Yankee Doodle Dandy" has remained a well-known favorite, revived each year on the Fourth of July by every band marching down Main Street, U.S.A.



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. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad.

Special Security and Communications Clerk, GS-301-4/5, PD No. 7612012N, Code 121 — This position provides specialized security and communications support for the intelligence program in area where compartmental Top Secret access is required. Incumbent operates Special Intelligence Communications equipment and maintains the associated complex logging and accounting systems; indexes and maintains files of intelligence documents and messages, and user interest files. Must possess or be able to obtain special intelligence security clearances prior to beginning work. Job Relevant Criteria: Demonstrated record of conscientiousness about security procedures and policies concerning the handling of classified material, typing, indexing and filing ability, and willingness to travel occasionally. Promotion potential to GS-4.

Contract Administrator, GS-1102-7, PD No. 7625037N, Code 2523 — This position is located in the Contract Administration Branch, Procurement Division, Supply Department. The incumbent will perform contract administration duties for service and support contracts (including contract modification, establishment and monitoring of suspense dates, follow-up on delay delivery, default action, contract termination and processing scope changes), prepare and disseminate task orders, work assignment and delivery orders; process contract modification and/or supplemental agreements. Incumbent is an ordering officer for multi-year contracts. Job Relevant Criteria: Knowledge of Armed Services procurement regulations and of preparation of procurement requests; ability to deal effectively with a wide variety of people and to communicate effectively both orally and in writing. Promotion potential to GS-11.

File applications for the above with Terry Rowell, Bldg. 34, Rm. 210, Ph. 3271. Clerk-Typist, GS-322-4, PD No. 7539093N, Code 2952 — This position is located in the RF Sensors Branch, RF Division, Weapons Department. As branch secretary, the incumbent serves as receptionist for telephone callers and visitors, types and proofreads various documents, screens and routes mail, maintains files, and performs timekeeping functions and other related duties. Job Relevant Criteria: Ability to type with speed and accuracy; ability to interpret regulations and instructions and apply them independently; knowledge of Navy correspondence procedures; ability to perform a variety of secretarial/clerical functions, and knowledge of correct grammar, punctuation and English usage.

File applications for the above with Marge Stanton, Bldg. 34, Rm. 206, Ph. 3273. Secretary (Typing), GS-318-5, PD No. 7762034N, Code 422 — This position is located in the Range Operations Division. The incumbent functions as the personal assistant to the head of the Range Department, receives all visitors, maintains calendar, drafts, prepares and reviews correspondence, monitors storage and disposition of all department records, and establishes/controls procedures for the handling of secret material. Job Relevant Criteria: Knowledge of correspondence procedures, ability to use initiative and judgment in the handling of day-to-day business in support of the supervisor, knowledge of reporting formats and procedures, and the ability to exercise tact and diplomacy in dealing with persons at all organization levels within and outside the organization.

File applications for the above with Carol Downard, Bldg. 34, Rm. 208, Ph. 2577. Guard, GS-085-3/4, PD No. 7384024/7584016N, Code 2413 — Position is located in the Police Division of the Safety and Security Department. Incumbent performs duties at a fixed post and a patrol (foot or vehicle), and must have veteran's preference. Duties include controlling entry and exit of personnel (i.e. protection of building areas and personnel), and enforcement of regulations. The incumbent will work one of three watches — day, night or

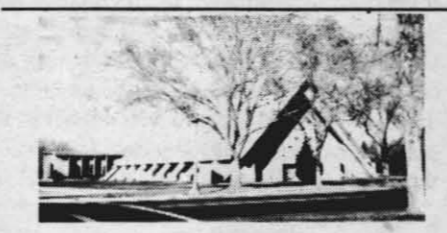
morning. Job Relevant Criteria: For GS-3, ability to express his/herself clearly in writing and to deal tactfully with people; must be in good physical condition. For GS-4, includes above criteria plus knowledge of laws and regulations, and of procedures related to federal guard duties.

Police Dispatcher, GS-301-2/3/4, PD No. 7584007N, Code 2413 — This position is located in the Police and Security Operations Division of Safety and Security Department. Incumbent performs dispatching duties for the China Lake Police Division and maintains radio communications with NWC guard posts, Fire Division, Naval Investigative Service, and off-center police agencies; coordinates and controls radio traffic between police units; responds to requests for assistance by police units and/or notifies appropriate source; furnishes requested information to the public or refers to appropriate authority. Job Relevant Criteria: Ability to communicate clearly, both orally and in writing; demonstrated tactfulness and diplomacy; experience in radio communications, and the ability to work effectively in stress situations.

Secretary (Dictating Machine Transcribing), GS-318-4/5, PD No. 7335088N, Code 355 — This position is that of secretary (DMT) located in the Countermeasures Division of the Electronic Warfare Department. The incumbent prepares correspondence from hand-written drafts or from a dictating machine; reviews all outgoing division correspondence for procedural and grammatical accuracy before submitting it for supervisor's signature; assembles information to be used in meetings, conferences and program reviews by the division head; performs receptionist duties for the division office and distributes mail and documents; instructs the branch secretaries in policies and procedures pertaining to correspondence. Job Relevant Criteria: Ability to type accurately and efficiently, experience in transcribing from dictating machines, knowledge of correspondence policies and procedures, ability to exercise tactfulness and courtesy, and observed supervisory potential.

File applications for the above with Charlotte Sieckowski, Bldg. 34, Rm. 204, Ph. 3118. Quality Inspection Specialist, GS-1960-5/6/7, PD No. 7626039N, Code 2482 — This position is located in the Maintenance Service Branch, Public Works Department. This branch insures optimum completion of all maintenance and purchase service contracts, as well as all special inspection surveys of Center facilities. The incumbent is responsible for specifications inspections and certification for payment on selected service contracts for facility upkeep. In addition, the incumbent is responsible for conducting special reviews in support of NWC housing facilities, fire/safety surveys, and other facility conditions with respect to building codes and Navy instructions. Job Relevant Criteria: Knowledge of defense contracting procedures; knowledge of functions to be administered; ability to apply good judgment in analyzing work to be accomplished by contractors; ability to negotiate with and direct contractors in the field.

Electrician (High Voltage) Foreman, WS-2810-10, JD No. 7170042E, Code 2432 — This position is at the first full (Continued on Page 4)



DIVINE SERVICES

PROTESTANT 1015 Sunday Worship Service 0900 Sunday School — All Ages 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 fulfills Sunday obligation Sunday 0700 0830 1130 Nursery, Chapel Annex 1 0815-1245 Daily except Saturday, 1135, Blessed Sacrament Chapel

CONFESSIONS Daily 1115 to 1130 Saturday 1615 to 1645 Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES Sunday Pre-School thru 4th grades 1015 Wednesday Kindergarten thru sixth 1530 Sunday seventh & eighth (Junior High) 1900 Above classes are held in the Chapel Annexes across from the former Center Restaurant. Sunday evening Ninth thru 12th grades As announced "In Home" Discussion Groups Youth Rallies Contact Chaplain's Office for specifics.

JEWISH SERVICES EAST WING — ALL FAITH CHAPEL Sabbath Services every Friday 1930

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



—Photo by PH3 B. J. Beckman

CONGRATULATIONS EXTENDED — Dick Boyd (at left), acting head of the Systems Development Department, congratulates John Holtrop, a mechanical engineer in the Mechanical Design Branch, on his patent award entitled "Liquid Propellant Gun." The patent concerns an injection assembly for liquid propellant guns, with the object of preventing back pressure on the injector mechanism. This protection is achieved by advancing the bolt to block the firing pressure.

Yankees emerge as champions of Little League's Major Div.

The Yankees, by chalking up two more victories last week, won the 1977 season championship of the China Lake Little League's Major Division and will play their counterparts from the Ridgecrest Little League for the inter-city championship sometime in July.

Danny Means of the Yanks had three singles and a walk to pace his teammates in their 11-4 win over the Red Sox, who went down swinging as Dwayne Merrill hit a home run with two men on base in the final inning. The Yanks also earned a 4-1 decision against the Giants in last week's play.

In other Major Division action, the Tigers mauled the Dodgers by a score of 23-9, thanks to the three triples of Chris DeVeney and a home run and two doubles by Paul LaMarca. The Tigers also clubbed the Giants, 14-6, while the Red Sox put down the Dodgers, 11-3.

The Indians' Joe Hart had a triple and three singles and Tim Hart had a walk and four singles to lead their team to a 24-10 trouncing over the White Sox in Minor Division competition last week. Jerry Thomas slapped two doubles and two singles to pace the Royals in their 18-7 drubbing of the Cardinals, while in other action it was the Indians, 23 and Pirates, 9; the Royals, 10 and White Sox, 9; and the Cardinals, 12 and the Pirates, 6.

Mike Becksvort of the Angels banged out a home run, triple, single and walk to point the way in his team's 22-16 victory over the Mets during Farm Division action last week. Other round-trippers were slugged when Ron Williams of the Padres unloaded a home run and triple in his team's 15-14 squeaker over the Reds, and when Scott Thompson of the Reds collected two home runs and a single in a losing cause.

Other Farm Division games last week saw the Mets edge the Cubs, 11-10, the Angels bedevil the Padres, 13-9, and the Cubs bear down on the Reds, 12-6.

Table with columns: Team, Major Division final standings, Minor Division, Farm Division. Rows include Yankees, Red Sox, Tigers, Giants, Dodgers, Royals, Cardinals, Indians, White Sox, Pirates, Angels, Cubs, Mets, Padres, Reds.

Employee in the Spotlight



Mariam Gallagher

"In my 24 years of employment at China Lake, I've had the privilege of working with some of the finest people in the world. In my job, I've gotten to know the 'brains,' and that's great, because I love smart people!"

Speaking is no slouch in the brains department herself — Mariam Gallagher, a mathematics technician in the Data Reduction Branch of the Range Department. She confesses, however, that "being a math technician doesn't necessarily mean you can balance your checkbook or figure your income tax."

What Mariam can do — and with great success — is coordinate the flow of tape (with radar and missile trajectory data) and film (with trajectory and position data) between the contractor and the Naval Weapons Center mathematicians so that results from a variety of testing programs can be properly analyzed.

System Has Changed Today, the contractor's employees reduce the data, though according to instructions which Mariam relays to them. She still remembers wistfully, however, the days when she and a group of perhaps 15 other math technicians performed the reduction themselves with hand calculators and the "old IBM 704" computer. They had to read the data off the film of the Mitchell, Askania and Bowen camera systems, punch that data into cards, and arrange ("deck") the cards so the computer could work with them.

In the late 1950s, Mariam received a commendation from Dr. Ivar Highborg, then head of the old Test Department, for being able to see ("edit") a Sidewinder at 60,000 ft. "It took eight hours a day of looking at film to spot that baby — just the tiniest speck in the sky." And she remembers, too, that the contractor about

that time mistook a crow for the missile on film. "They must have gotten some interesting data from that one," she surmised.

Mariam is her enthusiastic self about another aspect which her work took last summer: that of setting up the Range Record Facility, the central record center for all range operations. This entailed a 50-mile drive per day between one building, located in back of the Instrument Operations Building, and a number of work centers at China Lake.

Mariam was born in Chicago but raised in tiny Tonganoxie, Kan., the memorable characteristics of which were its great humidity in summer, cold in winter, and euphonious name (in honor of an otherwise forgotten Indian chief). Moving on to nearby Balwin, she attended the university of that name there for a year, majoring in drama.

In 1940, Mariam married Wayne Hill, and the couple lived in Kansas City until 1947, when they took a trip to China Lake to visit her parents. They liked what they saw, and Wayne took a job with his father-in-law, Peter J. McEnulty, who was a contractor for Haddock Engineers, one of the first contractors on the Naval Ordnance Test Station.

Mariam can tell you about those great early days in the Mojave Desert. One particularly colorful incident occurred in 1948, when she and a girlfriend were driving back here from a grocery-shopping trip in San Bernardino. Their car broke down near Red Mountain, and the building to which the two young women directed their steps to phone for help happened to be a house of ill fame. "It was a scene right out of the old west," says Mariam, "because in that parlour lounged rouged ladies gotten up in plumes, lace and black stockings. It was a million miles and a million years from Tonganoxie, I can tell you that."

First Job in Local Area In 1953, Mariam landed a job as a teller with the China Lake branch of the Bank of America, and the next year she began her Civil Service career when she signed on with the Test Department's Data Reduction Branch. Wayne died in 1966, and two years later, Mariam and Ed Gallagher (recently retired from the Photographic Division of the Technical Information Department were married in a big wedding at the Al Faith Chapel.

Between them, Mariam and Ed have five daughters, a son, and 11 grandkids, and it is apparent that our employee in the spotlight is charmed by children. About eight year ago she was appointed a master sergeant in the local Civil Air Patrol squadron, which she built up from 7 to 21 boys and girl during her first 12 months of service.

"I love boys from the ages of 12 to 17 — when everyone else says they're juvenile delinquents. Whoever said there wasn't such a thing as a bad boy was right," according to Mariam, who, although she is no longer active in Squadron 84, is now warrant officer.

Interested in Sea Cadet Program She's decided that when she retires, she will put in some time with the Navy Weapons Center Sea Cadet Squadron, explaining, "It's time to give a whack at the Navy, and besides, I'm very militar minded. My son, John, has called me 'commander' since he was 8 years old. Already, Mariam and Ed are members of the Indian Wells Valley Council of the Nav League of the United States.

Ed now owns an interest in Graham Associates, Inc., and, although Mariam no accompanies him on business trips she can, she plans to do much more of this — along with some sightseeing and visiting — much of the country — when she retires someday.

When that time comes, she says she will have had the satisfaction of knowing that although she could have gone on to work other offices over the years for a raise pay, she stayed where she is "because if people are so beautiful that it makes up for the money. To be able to say, for instance that your department and branch heads are your friends, is a real privilege."

Results as of Monday, June 27:

Table with columns: Team, Men's Fast Pitch Div., Women's Fast Pitch Div., Slow Pitch National Div., Slow Pitch American Div. Rows include Fisher Plastering, John's Pizza, Valley Industrial, BSCF, W. K. Equipment, Hawks, Comarco, Desert Meats, Murray Construction, Brand X, A & K Sparks, Frisbee, AVANT, VIPs, Best Realty, CSC, Dusty Dames, Shacklett's, Knights, Grand Good, Zephyrs, Pizza Villa, Royals, NALC, VX-5, Bird Olds, Rat Pack, Ten Commandments.



—Photo by PH3 B. J. Beckman

PROMOTED TO JOURNEYMAN — A promotion to the journeyman position of electronic mechanic, WG-11, was received recently by Milti Fortune, an employee of the Production Engineering Branch in the Engineering Department's Engineering Design Division. Mrs. Fortune, who is shown being congratulated by Jim Bowen, her division head, entered the Engineering Department's electronic mechanic prejourneyman development program in September 1974 as an electronic mechanic helper, WG-5. Since then she has completed 3,746 hours of on-the-job training in the areas of missile assembly, aircraft checkout, telemetry calibration, missile guidance control section repair and test, WS6536 High Quality Soldering and the Avionic Module Repair Improvement Program (AMRIP). In addition, she has completed 933 semester hours of course work at Cerro Coso Community College in mathematics, electronic technology and general education requirements. Looking on at right is John Shearer, Mrs. Fortune's branch head.

The Rocketeer Official Weekly Publication Naval Weapons Center China Lake, California. Capt. Frederic H.M. Kinley NWC Commander R.M. Hillier Acting Technical Director Dr. Robert H. Pearson Head, Technical Information Department Don R. Yockey Editor Jim Stansell Associate Editor Terrie Jacks Editorial Assistant Ron Allen Staff Photographer



DEADLINES Tuesday, 4:30 p.m. Tuesday, 11:30 a.m. News Stories Photographs The Rocketeer receives Armed Forces Press Service material. All are of official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NPP-R P-35, revised January 1974. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense. Phones 3354, 3355, 2347

Hawthorne, Nev., team edges Graham Associates in fast pitch tourney

A clutch-hitting team from Hawthorne, Nev., edged out the Graham Associates nine — local entry in the Northern California Congress Softball League — for the championship of the fifth annual Indian Wells Valley invitational fast pitch tournament which was held here last weekend.

In this double elimination event, Graham Associates had scored victories over the Torrance Warriors by a score of 8-2; Bruner's of Fresno by a final tally of 3-1; and George Air Force Base by a 10-2 decision, before coming up against the Hawthorne Hawks in a match between undefeateds.

The locals suffered a narrow 5-4 loss in this contest, which knocked them into the losers' bracket. Here they came up against George AFB again, and pulled out a relatively easy 8-1 victory, thus setting the stage for their re-match with the Hawks in the championship round that was played on Sunday afternoon.

Behind the superb pitching of Dave Strickland, a two-run homer in the second inning by right fielder Tony Cozzucoli and a solo blast by first baseman Greg Bishop in the sixth frame, the Graham Associates nine pulled out a 3-1 decision to hand the Hawks their first defeat of the tournament. The outfield play of Cozzucoli, center fielder Jerry Mather and left fielder John Martin was exceptional during the whole weekend, and Martin, in fact, was voted the tourney's most valuable player.

Championship Game
After a brief intermission, the two teams, each of which had suffered only one loss throughout the tournament, tangled again in the deciding game of the affair. An estimated 1,200 persons crowded the bleachers and sidelines in this, the 32nd and final game of the tournament.

Things looked bright for the locals early in this contest when they scored two runs in the top half of the first inning on a bases-loaded single by Strickland, who was again handling the mound chores. In their half of the inning, however, the Hawks tied the score at 2-2 when they tallied a pair of runs on three singles and an error.

The game then remained scoreless until the bottom half of the seventh and final frame, when Hawthorne combined a double up the right-center field alley, a pass ball, and with one out, a line drive single over the shortstop's head, to put the game away by chalking up the final run in this 3-2 thriller.

Winning pitcher in the championship game was Dick Kilgore, who won four games for the Hawks and was eventually selected the tourney's most valuable twirler. The Hawthorne team was presented a trophy for its first-place finish, and each team member received smaller individual trophies. The tournament's Sportsmanship Trophy was awarded to the Graham Associates.

Of the 16 teams which participated in the tournament, there were four local clubs, in addition to Graham Associates, but each was eliminated fairly early in the competition.

Little League 12-year-olds, coaches, managers to tangle

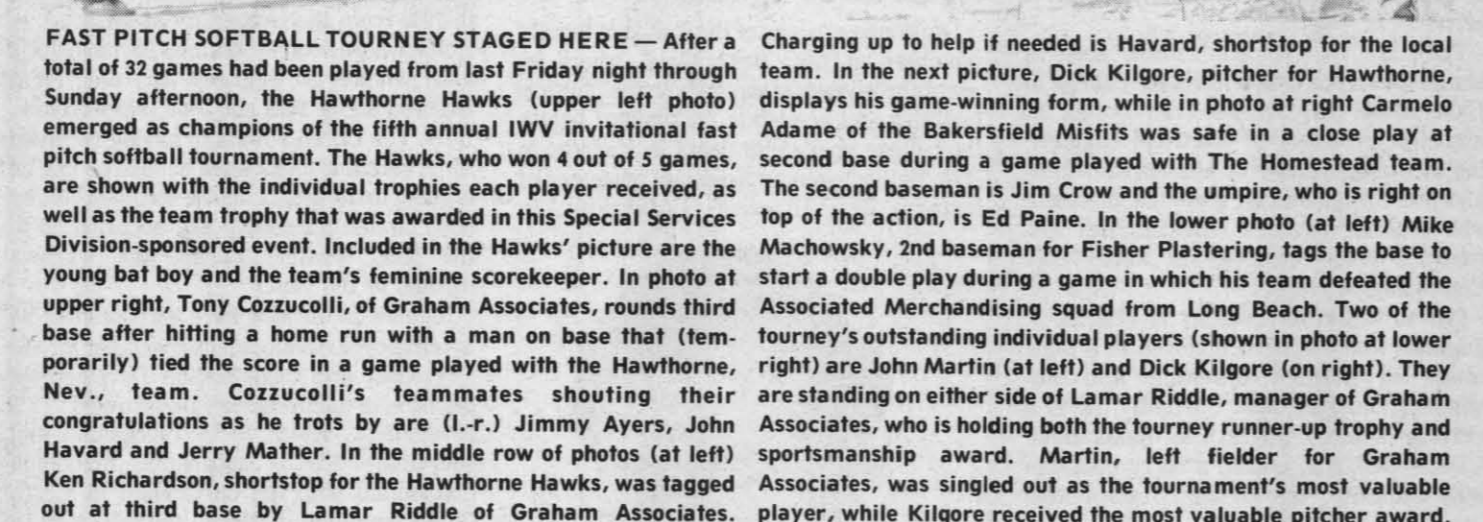
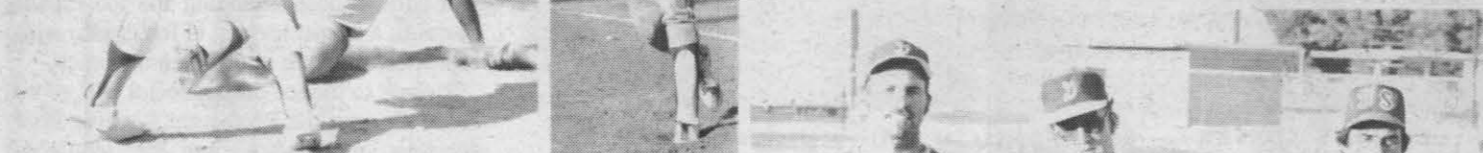
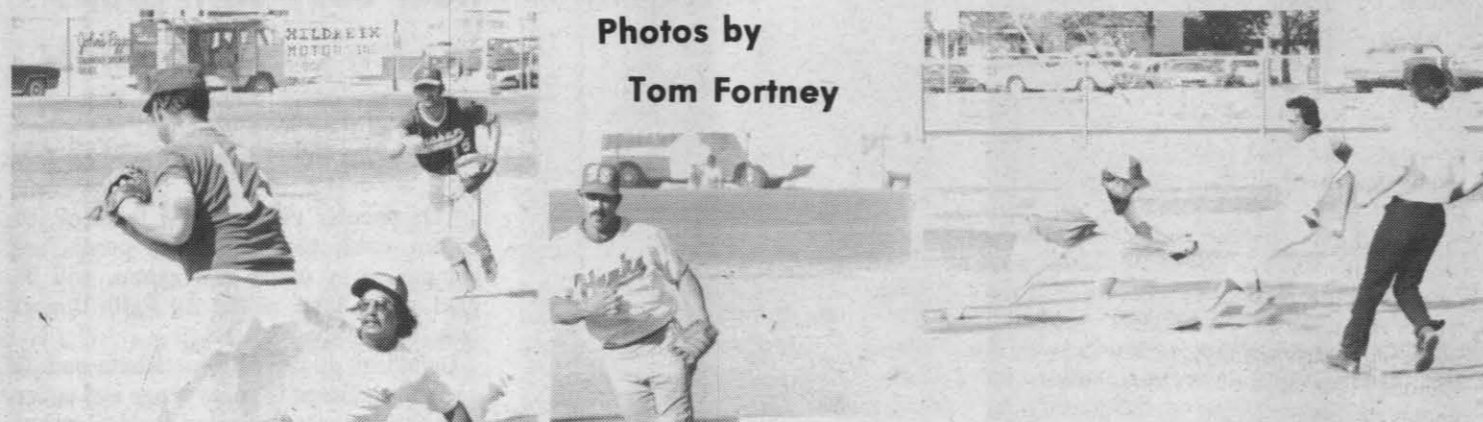
The annual game between the 12-year-old players and the managers and coaches of the China Lake Little League will be held Monday at diamond No. 4, across the street from the NWC Federal Credit Union, beginning at 5:30 p.m.

During the game, announcement will be made of the selectees for this year's China Lake Little League all-star team, who will meet their Ridgecrest counterparts in the area tournament tentatively slated to begin at the Kerr-McGee Little League field on July 21.

The winner of this contest will then play the victor of the matchup between the Bishop and Owen's Valley all stars, a game which will also be played at the field in Ridgecrest, probably on July 22.



Photos by Tom Fortney



FAST PITCH SOFTBALL TOURNAMENT STAGED HERE — After a total of 32 games had been played from last Friday night through Sunday afternoon, the Hawthorne Hawks (upper left photo) emerged as champions of the fifth annual IWV invitational fast pitch softball tournament. The Hawks, who won 4 out of 5 games, are shown with the individual trophies each player received, as well as the team trophy that was awarded in this Special Services Division-sponsored event. Included in the Hawks' picture are the young bat boy and the team's feminine scorekeeper. In photo at upper right, Tony Cozzucoli, of Graham Associates, rounds third base after hitting a home run with a man on base that (temporarily) tied the score in a game played with the Hawthorne, Nev., team. Cozzucoli's teammates shouting their congratulations as he trots by are (l.-r.) Jimmy Ayers, John Havard and Jerry Mather. In the middle row of photos (at left) Ken Richardson, shortstop for the Hawthorne Hawks, was tagged out at third base by Lamar Riddle of Graham Associates.

4-2, to Cal City Pharmacy on Saturday morning, and that evening were bombed by the Misfits, 13-1. Hub Furniture, last year's champs, did not enter a team in the 1977 tournament. One club which looked particularly promising this year was the team from Long Beach, but the desert heat took its effect and the beach city nine, which lost its first two contests, was on the road back home by Saturday night. Players selected for the honorary all-star team at the conclusion of the tournament were: pitcher, co-winners Forrest Dean of

Admiral's Cup track meet, all hands picnic on tap
An all hands picnic for enlisted military personnel of the Naval Weapons Center will be held today, starting at 3 p.m., at the Miniville Park recreation area. There will be free hamburgers, hot dogs, beer and soft drinks available for all who attend to watch the Admiral's Cup mini-track competition between teams representing NWC North, NWC South and VX-5. Following this final Admiral's Cup event of the year, the team trophy will be awarded and an individual trophy will be presented to the outstanding athlete of the past year.

\$30,000 raised in Desert Counseling Center fund drive; campaign extended

At the end of its first full month of intensive solicitation for the community for funds to build a new community health care facility, the Desert Counseling Center is sure everybody has a chance to participate, and to give DCC volunteer campaign workers 'breathing space' to finish the campaign, we have decided to extend our period of active solicitation through September.

Pledges toward signature tiles, permanent ceramic tiles bearing donors' names, have been an especially popular form of donation, she added. "Most of us can easily afford \$10 per month—and that's all we're asking for signature tiles," she said. "The community needs this new clinic—now, when the clinic needs the community, let's all participate and show our support of an adequate mental health facility for this valley," Mrs. Green urged.

Donations Received Daily
More donations are coming in every day, according to Marje Boehme, DCC community relations director. Several individuals and families have pledged enough to endow entire rooms in the new clinic, which is an imaginative beehive-structured plan designed by renowned architect Robert Alexander.

Summer lecture series set for research, development managers

Applications for enrollment are now being accepted for a summer lecture series for research and development managers that will be held from 9 to 11 a.m. on Wednesdays during the month of August in Conference Rm. 1000D, Michelson Laboratory.

Objective of the lecture series is to explore the uniqueness of the R&D community, and to expose managers to various aspects of managing in an R&D environment.

Credit will be given to those who attend toward the 80-hour requirement for supervisors. The speakers, the topics to be covered and the dates are as follows: Dr. Ed Alden, an operations research analyst in the Code 08 Plans and Analysis Branch, "The Behavioral Aspects of the R&D Organization, Aug. 3.

Robert McKenzie, head of Management Analysis Group in the Office of Finance and Management, and Milt Ritchie, a materials research engineer in the Engineering Department's Microelectronics Branch,

Congressional Fellow briefed . . .

(Continued from Page 1)
award. He used the research award stipend to continue basic research effort in rarefied gas dynamics as a post doctoral scholar at the University of California at Berkeley (1970-71).

His duties at the NSWC White Oak Laboratory, which began following his year at UC Berkeley, have included the planning, proposing, and conducting of applied research, as well as developmental testing of interest to the Navy and pertinent to the development of flight weapon systems technology. He had a prominent role in

"Some of our volunteers have been finding that the people they were assigned to contact have gone out of town on vacation," Mrs. Green said. "For this reason, to make sure everybody has a chance to participate, and to give DCC volunteer campaign workers 'breathing space' to finish the campaign, we have decided to extend our period of active solicitation through September."

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"Motivation and Job Satisfaction in the R&D Environment," Aug. 10.

Ralph Schwarzbach, head of the Engineering Department's Technical Data Division, "Work Planning and Documentation Through the R&D and Production Phases," Aug. 17.

Earl Towson, head of the R&D Planning Program in the Weapons Planning Group, "The R&D Decision Making Process," Aug. 24.

Burrell Hays and Dr. Ed Royce, heads of the Propulsion Development and Research Departments, respectively, "Assuming the Top Management Role in a Technical Department," Aug. 31.

Employees interested in attending one or more of the lectures must submit an enrollment form via proper department channels in time for it to reach Code 094 no later than July 17, and are asked to indicate on the form which of the lectures they wish to attend.

establishing the initial operation of the Hypervelocity Research Tunnel and in developing it to a recognized state-of-the-art test facility.

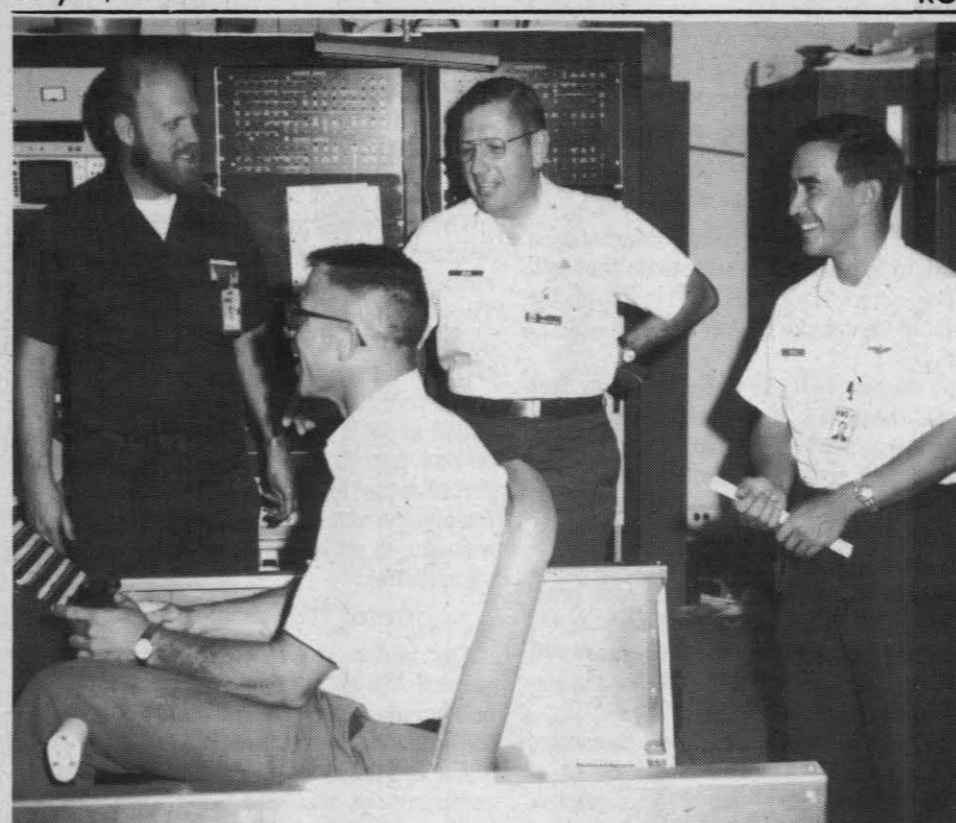
As its manager, Dr. Keel supervised and coordinated operation of the Hypervelocity Research Tunnel, conducted briefings on the facility capabilities, planned flight vehicle developmental testing, and evaluated test results. He also has been NSWC's principal investigator for the National Aeronautics and Space Administration's Space Shuttle Orbiter testing.

In parallel efforts to the above assignments, Dr. Keel has proposed and performed applied research studies for the advancement of re-entry technology. In addition, his other research efforts included an experimental study to determine the performance of an electro-static sensor under supersonic flow conditions and to evaluate its suitability for indicating vehicle up/down and roll orientation.

Showing driver's pass not required during traffic rush hours

In spite of a year-old Naval Weapons Center policy which allows vehicles to pass through the main and south gates showing only a bumper sticker for identification purposes during the morning and noon rush hours, a significant number of drivers still slow down to show or hunt for a personal pass.

According to Bill Bonner, Center traffic engineer, such a disregard for the rule slows down the flow of traffic considerably. He asks all China Lakers to observe this pass policy so that all concerned will benefit.



AIR FORCE GENERAL VISITS NWC — Capabilities of the A-7D simulator were demonstrated for the benefit of Brigadier General F. M. Drew, USAF (second from right), during the latter's visit to the Naval Weapons Center on Tuesday. The primary use of this equipment is for the validation of airborne computer programs. At the controls is Ralph Rodieck, the simulator operator, while standing at right is Maj. Ken B. DeKay, USAF, the Tactical Air Command's liaison officer to the A-7 program and A-7D project manager. At left is Harvey Nelson, the A-7/A-6 simulation facility manager. —Photo by Ron Allen

Vice Commander of Tactical Fighter Weapons Center visits China Lake

Brigadier General F. M. Drew, USAF, Vice Commander of the Tactical Fighter Weapons Center at Nellis Air Force Base, Las Vegas, Nev., visited the Naval Weapons Center on Tuesday for a day-long general orientation.

Since Nellis AFB utilizes air space adjoining that of the Naval Weapons Center (and some land which is adjacent to NWC as well), Brig. General Drew was here for a firsthand look at NWC range facilities and briefings on current programs of special interest to his command.

Following welcoming remarks by Capt. Frederic H. M. Kinley, NWC Commander, and R. M. Hillyer, acting Technical Director, an overview of NWC's Test and Evaluation Directorate was presented by C. J. DiPol, acting head of the Range Department.

Flown to Randsburg Wash
The Air Force visitor then boarded a helicopter for a tour of the NWC ranges during which he stopped briefly at Randsburg Wash to examine the special facilities there.

During the afternoon, Brig. Gen. Drew was briefed by M. F. Stenger, the AIM-9L Product Improvement Program manager, as well as by R. E. Riggs, head of the Sparrow Program Office. In addition, he visited the Electro-optics Laboratory to listen to a presentation on pyroelectric vidicon by W. H. Woodworth, head of the Weapons Department's Electronic Development Branch; was given an update on defense suppression by G. R. Schiefer, head of the Electronic Warfare Department; and heard from R. P. Moore, head of Code 35's Microwave Radiometry Branch on the subject of "Microwave Radiometry."

West Point Graduate in '53
Brig. Gen. Drew was graduated in June 1953 from the U.S. Military Academy with a bachelor of science degree and a commission in the Air Force. In the intervening years, he has completed the U.S. Army Command and Staff College in 1964 and the National War College in 1971, and received his master of science degree from George Washington University, Washington, D.C., also in 1971.

After graduation from the Military Academy he received pilot training and was awarded his Air Force wings at Williams AFB in Arizona in 1954. Combat crew training in the F-86 Sabrejet aircraft followed at Nellis AFB.

Brig. Gen. Drew, who is a command pilot with 3,600 flying hours, has handled such

varied assignments as flight commander with the 50th Fighter-Bomber Wing at Toul-Rosieres Air Base in France, and also served at Incirlik Air Base in Turkey, where he organized an operations facility for command and control of Tactical Air Command fighter squadrons on rotational temporary duty from the United States.

Headed Special Unit in Vietnam
In April 1967, during the Vietnam War, he was assigned to command a special Air Warfare Center unit equipped with A-1Es that were fitted with night vision devices designed for independent night interdiction operations. After more than a year of development, testing, and training in the U.S., Brig. Gen. Drew went with the unit to Southeast Asia, where he commanded it during a year of combat operations.

Prior to assuming his current duties at Nellis AFB, he was assigned in August 1974 as Commandant of the Air Command and Staff College at the Air University, Maxwell Air Force Base, Alabama, and (from August 1975 to December 1976) served as Chief of the Air Force Section, U.S. Delegation, Joint Brazil-United States Military Commission at Rio de Janeiro, Brazil.



NWC PLAQUE PRESENTED — Dr. Alton Keel, Jr., was the recipient of an NWC plaque as a memento of his visit here this week. The presentation was made by Capt. Frederic H. M. Kinley, NWC Commander. Dr. Keel was at China Lake for a briefing on current programs before beginning a year-long appointment as an American Institute of Aeronautics and Astronautics Congressional Fellow.



ARMY CAREER CONCLUDED — Capt. W. B. Haff, acting Vice Commander of the Naval Weapons Center, officiated during a ceremony held last Friday to mark the retirement of Lt. Col. Richard F. Boyd, Army Liaison Officer at NWC for the past five years. Looking on at left is Lt. Col. Boyd received an American flag as a keepsake of his 20 years of military service is the retiring Army officer's wife, Jeani. Lt. Col. Boyd's Army career was highlighted by winning the Distinguished Flying Cross during the first of two tours of duty in Vietnam as a helicopter pilot. He will be returning to his home town of Twin Falls, Idaho, to work as an assistant hospital administrator for public relations. —Photo by Ron Allen

Class in Effective Presentations to be offered Aug. 22-26

Enrollment is now being taken for a course in Effective Presentations that will be held from 8 a.m. to 4:30 p.m. at the Training Center during the week of Aug. 22 to 26.

The course, which is to be taught by Don Moote, head of Technical Information Department's Presentations Development Branch, will provide information on how to plan, organize and deliver presentations.

Emphasis will be placed on identifying the audience, setting objectives, organizing the material, selecting media, and practicing good presentation techniques. All those who enroll must come to the class with a 10-minute presentation that he or she has prepared.

This course will consist of classroom instruction and practical applications of the techniques being taught by means of participants' presentations, videotape and critiques.

Employees interested in attending this course must submit an enrollment form via proper department channels in time for it to reach Code 094 no later than Aug. 8.

Congress OKs bonus bill

A bill that would extend the military services' authority to pay enlistment and selective reenlistment bonuses until September 1978 has been passed by Congress and forwarded to the President for his signature.

Current bonus-paying authority expired on June 30, 1977.

Happenings around NWC

The July meeting of Federally Employed Women will be held on Wednesday, July 6, rather than the previously scheduled Tuesday. It will take place in the Sidewinder Rm. of the Community Center at 11:30 a.m.

The five final choices will be announced by the group's Name Selection Committee, and an opportunity will be given for any nominations of officers from the floor. Despite the name, both men and women are welcome to attend meetings and to join the organization.

Metal Trades Council

The Indian Wells Valley Metal Trades Council will hold its next monthly meeting on Thursday, July 7, starting at 7:30 p.m. at 65-B Halsey Ave., China Lake.

The council is the representative of a unit composed of non-supervisory, ungraded, civilian employees of the Naval Weapons Center.

Dance Set at the Shuttle

The Stumpbreakers, a local soft rock band, will perform at The Shuttle (Enlisted Club) tonight from 9 p.m. to 2 a.m.

T-bone steak dinner, at a cost of \$4.50 per person, will be served from 6 to 8:30.

Special Dinner at COM

A Dinner of the Islands, featuring charcoal-broiled Samoan chicken and Hawaiian trout, will be served at the Commissioned Officers' Mess tonight from 6 to 9:30.

The COM will be closed Monday, July 4.

Recreation facilities open July 4th

Following are the hours of operation of recreational facilities at the Naval Weapons Center during the July 4th holiday on Monday:

FACILITY	HOURS
Hall Memorial Lanes and Snack Bar	11 a.m. to 11 p.m.
Golf Course	6:30 a.m. to 8:30 p.m.
Gymnasium	11 a.m. to 7 p.m.
Indoor Pool	noon to 6 p.m.
COM Pool	11 a.m. to 8 p.m.
CPO Club Pool	noon to 6 p.m.
Theater	Regular hours
Minvielle Park	11 a.m. to dusk

The remaining facilities will be closed on Monday. These include the Auto Hobby Shop, the Skeet and Trap Range, Youth Center, Camping Issue Facility, Ceramics Shop, Community Center, Hobby Store, the Navy Exchange Retail and Men's Stores, NEX Annex, NEX Service Station, Uniform Shop, the Bennington Plaza, Airfield and Michelson Laboratory Snack Bars, Commissary Store, Child Care Center, Barber Shop, China Lake Propulsion Laboratories Cafeteria and the NWC Employee Services Board Catering Trucks.



TESTING PROGRAM CONTINUED — After a six-month wait for the right wind conditions, another in the series of tests under the Vapor Cloud Explosion Study was conducted here recently at test area CT-6 under the supervision of the program manager, Dr. Doug Lind, who works in the Propulsion Development Department's Explosives Technology Branch. For the test, 1,500 gals. of liquefied natural gas (LNG) at a temperature of minus 160 degrees C. was spilled on a pond of water. Boiling on the surface of the pond, the LNG evaporated very rapidly and formed vapor, which in turn condensed water vapor out of the air—visible as a white cloud of fog in the above photo. The flame is from the clean-burning LNG. Data from the test, which took about two minutes to complete, is still being analyzed; already, however, it has been learned that the vapor did not burn back significantly to the place where the spill originated, but only where it had blown downwind of the spill. Further tests are planned under different wind conditions and with variations in the time of ignition. The study is being sponsored by the U.S. Coast Guard. —Photo by Randy Eady

Officials concerned about fireworks in state's mountain recreation areas

Fire officials are concerned about fireworks in California's mountain recreation areas as critical fire conditions continue to build from the record drought, hot summer temperatures, and projected record crowds over the long Fourth of July holiday weekend.

"Fireworks can be the last straw in our forests and grasslands if this holiday weekend is hot and windy," said John A. Leasure, forest supervisor of the Sequoia National Forest. "Our fire forces will be prepared, but we do need the help of our forest visitors to prevent fires."

Opportunities...

(continued from Page 2)

Supervisory level in the Power Section, Electrical Trades Branch, Maintenance-Utilities Division, Public Works Department. The incumbent gives direct supervision to personnel in maintaining power lines at NWC. Applicants must possess enough knowledge and abilities in the following elements to perform the duties of the position in the trade supervised: ability to supervise; technical practices; ability to interpret instructions, specifications, etc.; knowledge of materials; knowledge of pertinent tools and equipment. File SF-172 and supplemental wage grade supervisory information sheet with Code 997 to be received no later than July 19, 1977. Forms may be obtained in Rm. 212 of the Personnel Bldg.

Carpenter WG-4607-7JD No. 344, Code 26416 — The incumbent works with qualified journeyman carpenter or under direct supervision of the foreman in all types of repair or minor construction from rough framing to finish trimming. Incumbent will be participating in a pre-journeyman development program. Job Relevant Criteria: Technical practices; ability to interpret instructions, specifications and blueprints; measurement and layout; tools and equipment; materials; ability to do the work of the position without more than normal supervision. Promotion potential to WG-9.

File applications for the above with Ginger Hamaty, Bldg. 34, Rm. 212, Ph. 202.

Equipment Repairer, WG-5352-4, JD No. 492, Code 3253 — Does installation, repair and maintenance of explosive processes and equipment in the China Lake and Salt Wells labs of the Propulsion Development Department; does layout, fabrication, selection of procedures and specific techniques for installing, maintaining and repairing various machinery units used to process hazardous materials. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; technical practices, trade theory, and troubleshooting; ability to use precision measuring instruments and test equipment; ability to use machine tools, hand and power tools, and related equipment; ability to read and interpret blueprints, instructions, specifications, etc. Incumbent may be non-competitively promoted to the WG-10 level upon satisfactory completion of requirements for promotion.

Clerk-Typist, GS-322-3, PD No. 764504-SD-1N, Code 3273 — This is a full time permanent position located in the Systems Technology Branch, Propulsion Systems Division, Propulsion Development Department. The incumbent types technical reports and correspondence, reviews and distributes incoming correspondence, and performs miscellaneous clerical duties. Job Relevant Criteria: Must be able to type accurately and efficiently, to perform clerical tasks independently, and have a good understanding of clerical office functions. Upon meeting regulatory requirements and with satisfactory performance, selectee will be promoted to Clerk-Typist, GS-322-4, PD No. 764504-SD-1N.

File applications for the above with Mary Morrison, Bldg. 34, Rm. 216, Ph. 2293.

"Fireworks, even those considered 'safe and sane,' are illegal in the Sequoia National Forest. We hope our forest visitors will follow the slogan 'Forests and Fireworks Don't Mix,' and leave all fireworks at home," said Leasure.

The largest fire on the Sequoia National Forest in 1976 blackened over 700 acres and was caused by a firecracker. "We want to avoid another fire like that," said Leasure. He indicated that fireworks found in the possession of forest visitors will be confiscated. Persons violating firework laws are subject to fines and jail terms.

"We are confident that most forest visitors will leave fireworks at home," said Leasure. All Sequoia National Forest campgrounds are open, and campsites are available on a first come-first serve basis except four campgrounds north of Kernville where reservations are accepted.

Campsites at which reservations are required are: Headquarters, Camp 3, Hospital Flat, and Goldledge.

Visitors going to undeveloped areas of the Sequoia National Forest are reminded to pick up a campfire permit at a Forest Service office before leaving on their trip. Wilderness permits are required for travel in the Domeland Wilderness and the High Sierra Primitive Area. Wilderness permits are not needed in other areas, including Mineral King and Sequoia National Forest.

"The Sequoia National Forest provides a wide variety of recreation activities to many users. We want our forest visitors to enjoy their stay. While here we ask their help in preventing forest fires," Leasure emphasized.

July 4th fete . . .

(Continued from Page 1)

The Desert Empire Fair has ordered \$2,000 worth of fireworks for the July 4th pyrotechnics display. In addition to \$500 donated by the City of Ridgecrest, other donations to cover this cost are being sought from civic-minded clubs, organizations and individuals, Martin said.

Those wishing to add their financial support to the fireworks fund are invited and urged to do so by sending a check marked "Fireworks" to the Desert Empire Fair, P.O. Box 1176, Ridgecrest, CA 93555.

Groups interested in assisting with the Independence Day fete by sponsoring games or special events are asked to contact Martin at the fairgrounds by calling 375-8000.



EXPERTS CONFER — George Goetz (at left), project engineer of the FLIR / LRD technical support program at China Lake, and Lt. Col. D.E.P. Miller of the Marine Corps Liaison Office here, review the avionics installation of the Night Observation System's FLIR / LRD equipment which will be installed in the basic OV-10A aircraft. Once this equipment is in place, the aircraft will become the OV-10D. The above OV-10A aircraft is used in various avionics test programs at China Lake. —Photo by Ron Allen

Aircraft avionics system developed . . .

(Continued from Page 1)

In addition, NWC provided technical support for the evaluation of the YOY-10D's performance in Vietnam.

The second and present phase of the work on the NOS program began in 1974 with the initiation of the procurement of pre-production equipment. NWC is presently involved in this acquisition of the FLIR / LRD equipment and associated technical support. Additionally, an automatic video tracker is being procured which will be used to improve the designation accuracy of the system.

Protestant Women now busy with plans for ice cream social

Plans are under way for the Protestant Women of the Chapel's annual ice cream social, which will be held on Tuesday, July 19.

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 those attending the ice cream social to a single serving of ice cream with either cake or pie and coffee or punch.

Tickets to the ice cream social will go on sale following the Protestant Congregation services on Sunday, and be available thereafter during weekdays at the All Faith Chapel office, which is open from 7:30 a.m. to 4:30 p.m.

Money raised by the ice cream social will be donated to the Protestant Congregation's mission projects.

Providing technical support for the LRD portion of the program is the Laser Systems Branch, Code 3151. Code 3153 coordinates and supplies technical support for the FLIR work being done.

The original NOGS aircraft are at the Rockwell International Corp., Columbus Aircraft Division (RICAD), Columbus, Ohio, for propulsion flight tests. Up-rated turbo prop engines developing 40 per cent more horsepower than that provided for an original aircraft have been installed on the OV-10D NOS version.

The Navy Technical Assessment of the propulsion system is now nearing completion. The results of these tests have been favorable, and current plans are to begin contractor test and evaluation of the avionics in October of this year. Production systems derived from modified OV-10As are scheduled for deployment in 1979.

Navy enlistees offered Delayed Entry Program

The Navy has a special Delayed Entry Program for persons who want to join the service now but would like to wait awhile before reporting for duty, according to Chief Yeoman Ed Moss, local Navy recruiter.

"The delay could be as long as 12 months, depending on the enlistment program chosen," said Moss, who added, "This option also offers guaranteed admission to technical training schools for those who can qualify. For length of service and pay computation purposes, one's time in the Navy begins on the day of enlistment under the program, not the day of reporting for active duty."

Further information can be obtained by contacting YNC Moss at the Navy Recruiting Station, Coso Center, 130-C S. China Lake Blvd., or phone 375-4603.

University, college faculty members handle diverse summer assignments

Three university or college faculty members are at China Lake for the summer for diverse assignments aimed at taking advantage of their particular talent and background, and a fourth is scheduled to arrive next week.

They are Dr. Vincent Ponko, dean of humanities from California State College at Bakersfield; Dr. Thomas Van Doren, an associate professor of electrical engineering at the University of Missouri in Rolla, and Steve Bigelow, an assistant professor who teaches physics, mathematics and machine tool technology at Cerro Coso Community College.

Due to report on Tuesday is Charles J. Edgette, who has been involved in a wide range of college teaching and administration since 1933. Currently, he is a lecturer in accounting at CSC Bakersfield.

Dr. Ponko, who is both a Navy historian and authority on archival/information

solidate the record collections into one central information bank, but rather to identify existing specialized depositories that, in the future, will be a guide to where to go for specific information.

Dr. Ponko was one of the founding faculty members at CSC Bakersfield, where he spent three years planning both the physical facilities and academic curriculum before the college opened its doors to students in 1970. He had been an associate professor of history at Villanova University in

section measurements using a short pulse radar. This summer he is working on problems associated with radar chaff.

He has a Ph.D. with emphasis on microwave engineering which he received in 1969 from the University of Missouri at Rolla, where he also obtained his bachelor's and master's degrees in electrical engineering in 1962 and 1963, respectively.

Dr. Van Doren admits to having received some quizzical looks when he tells people he is going to the desert for the summer but, by now, he and his family are accustomed to the local weather during the warmer months of the year.

Bigelow is working here this summer as an employee development specialist for the Personnel and Organization Development Division of the Personnel Department. This assignment, which is to reorganize and coordinate NWC's apprentice machinist curriculum with the curriculum at Cerro Coso Community College, will take him to the Salt Wells Pilot Plant laboratory, the Range Department's Optical Development Branch, to Michelson Laboratory and to the Supersonic Naval Ordnance Research Track (SNORT) to obtain first-hand information on the apprentice training program.

At the present time, there are nine em-

ployees enrolled in the four-year machinist apprentice program, the academic portion of which is taught at Cerro Coso College.

Bigelow, who has a bachelor's degree in industrial arts and technology, and a master's degree in physics (both from California State University at Fresno), taught physics at Cal-State Fresno for three years prior to joining the Cerro Coso College faculty two years ago.

Registration open in creative dance expression class

Registration is now being taken for a continuing program in creative dance expression for youngsters six years of age through high school. The course will be broken into six-week increments at a cost of \$12 each (\$2 per class), to be paid in advance.

Under the direction of the Special Services Division, the classes will be taught by Bette Jacks, who has been teaching dance in the local area for 20 years.

Creative dance expression, open to boys as well as girls, is designed to enable each student to express his or her own imagination through movement. Originality, agility, coordination and strength also are developed.

Registrations will be accepted at the China Lake Youth Center, ph. 2909, Monday through Friday from 9 a.m. to 7 p.m. beginning today and continuing through July 15.

Theater adds matinee program on Wednesdays

In addition to free Saturday matinees, the Center Theater will be showing Wednesday matinees at the regular admission price of 75 cents, beginning July 6 and continuing through Aug. 31.

The program for each Wednesday will consist of a short subject and one feature-length animated cartoon. All movie are G-rated and acceptable for even very small children.

The theater will open its doors at 1 p.m. and the program will begin at 1:30.



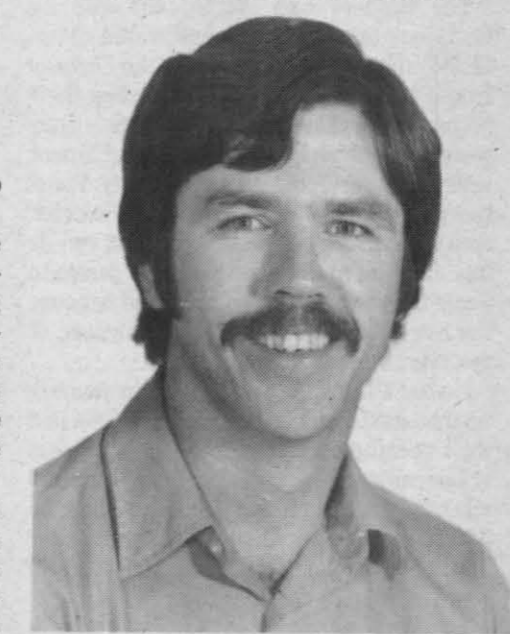
Dr. Vincent Ponko systems, is assigned to the Technical Information Department's Special Writing Projects Branch. He is here this summer to locate and identify collections of information about the Naval Weapons Center that will be useful as sources in the preparation of Center publications, presentations and management studies. The purpose of the study isn't to con-



Dr. Thomas Van Doren Villanova, Pa., prior to moving to California.

Since 1957 he has been involved in college and university level teaching and administration, is the author of a book on naval history which covers naval explorations in the 19th century, and gives talks on naval history. In addition, his writings on Elizabethan history and the history of the British Commonwealth have been published.

This is the seventh summer being spent at China Lake by Dr. Van Doren with the Electronic Warfare Department's Missile Radar Branch. His work here in the past has involved him in microwave circuit design and such things as radar cross



Steve Bigelow