

## Local STC members to participate in International confab

C. E. Van Hagan, head of the NWC Technical Information Department, and two members of TID's Film Project Branch will be representing the Sierra-Panamint Chapter of the Society for Technical Communication (STC) during the 22nd International Technical Communications Conference.

This annual event will be held May 14 to 17 at the Disneyland Hotel in Anaheim.

Van Hagan, who is a national director of STC, will be attending business meetings of the society's top officials, as well as various panel discussions and programs that are on the conference agenda.

Marty Shelton, who heads the Film Projects Branch, and John Dunker, a film producer in this same branch, will participate in a panel discussion on film making that is scheduled from 3 to 4 p.m. on the opening day of the conference.

Shelton will present a paper dealing with the advantages which an information film offers as a communication medium. Dunker, whose topic will be "How To Make the Film You Need," will offer suggestions on how to make an in-house film which minimizes wasted effort and money.

## Palmdale caller will lead square dancers

Tom Bush, well known square dance caller from the Palmdale area, will visit the Community Center tomorrow night to call the tunes for a dance.

This event, sponsored by the Jim Dandies Square Dance Club, will begin at 8 o'clock.

All interested square dancers are invited to attend.

## Community Orchestra Youth Concert set Sunday at BHS Lecture Center

The annual "Youth Concert" of the Desert Community Orchestra will be held on Sunday at the Burroughs High School Lecture Center. It will begin at 3:30 p.m.

Soloists, chosen through auditions held earlier this year, will be Glenda Davis, Carolyn Morrow, Steve Nygaard and Bill Lufjens, all students at Burroughs.

Miss Davis will play Koh-Ichi Hattori's piano solo, "Concertino for Small Hands." Nygaard will perform the trumpet solo in Haydn's "Concerto for Trumpet and Orchestra," while Miss Morrow will be heard in Vivaldi's "Concerto in A Minor for Violin and Strings."

Lufjens, who was a soloist last year on the piano, will demonstrate his capabilities this year as a saxophonist. He will play Jaques Ibert's "Concertino Da Camera for Alto Saxophone and Orchestra."

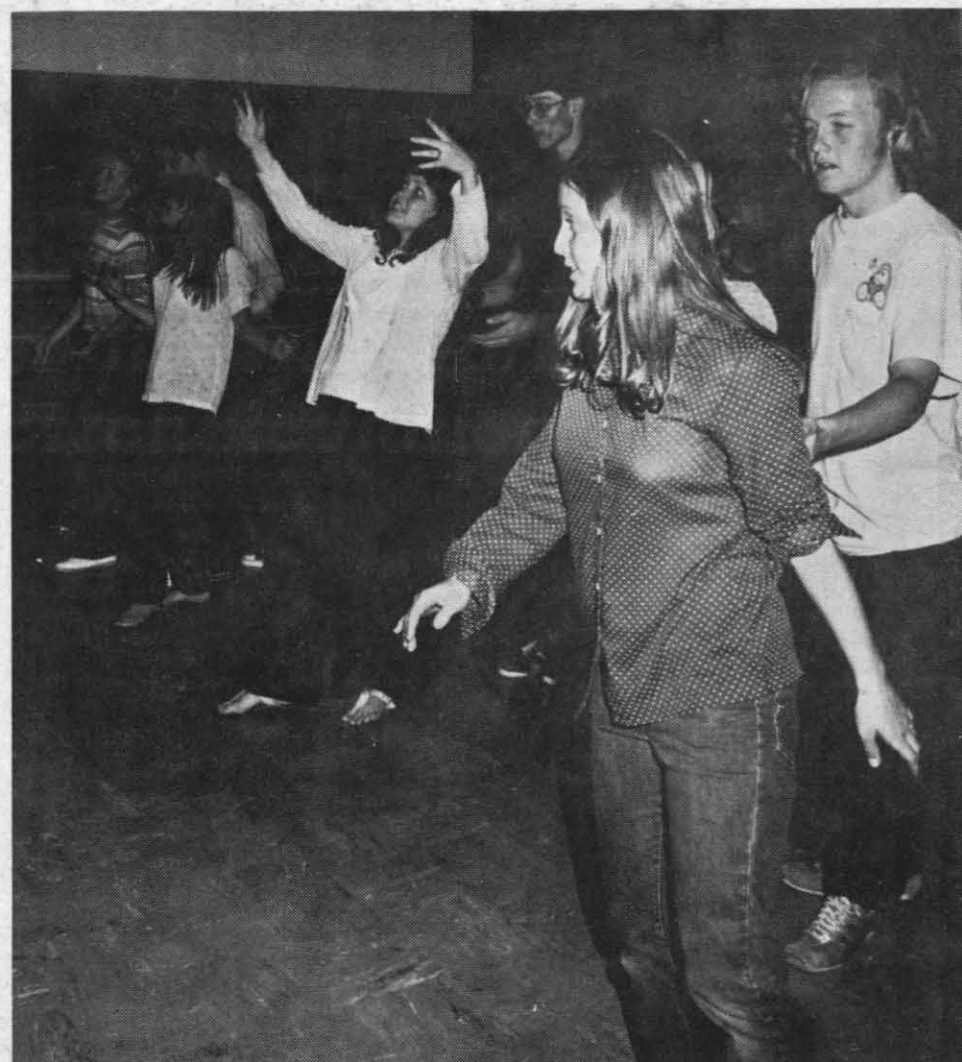
Gordon Trousdale will conduct the 60-piece orchestra. The Youth Concert is staged each year to provide an opportunity for music students in the Indian Wells Valley to qualify for solo performances with a symphony-type orchestra. This will be the final concert of the 1974-75 season. It is sponsored jointly by the Desert Community Orchestra Association, Inc., and the Cerro Coso Community College.

Tickets are priced at \$2 for general admission and \$1 for students. They can be purchased from orchestra members, or at the Cerro Coso College switchboard. The duets also will be available at the Lecture Center door prior to the performance.

A reception following the concert will be held in the teachers' dining room on the Burroughs High campus.



IN REHEARSAL — Gordon Trousdale (back to camera), conductor of the Desert Community Orchestra, puts the 60-piece musical group through its paces during rehearsal for the annual Youth Concert, slated on Sunday. Four young music students will play solos during this concert, held each year to showcase the talents of youths of the Indian Wells Valley. —Photo by Stan Reynolds



"THE BOY FRIEND" OPENS NEXT WEEK — Susan Beckett, choreographer (foreground), and Tom Lehmann, student director (at right), are shown putting members of "The Boy Friend" cast through a dance rehearsal for the Burroughs Players upcoming production. The musical comedy, written by Sandy Wilson, will open on Thursday, May 15, at 8:15 at the Burroughs High School Lecture Center. It will be presented again on May 16, 23 and 24. The show is directed by Alan Kubik. Tickets are priced at \$1.50 for general admission and \$1.25 for students and enlisted military personnel and their wives. The duets can be purchased from cast members or at the Lecture Center door on performance nights.

## Roaring '20s theme slated for WACOM's annual spring dance

The "Roaring 20s" will return to China Lake on Saturday, May 17, when the Women's Auxiliary of the Commissioned Officers' Mess (WACOM) sponsors its annual spring dance.

For the nominal fee of \$13 per couple, those who attend this gala event at the COM will participate in a fun-filled evening that includes good food, dancing and entertainment — all in the style of the 1920s.

A hanging beef buffet will be served from 7:30 to 9 p.m., preceded by a no-host cocktail hour. At 9 o'clock, "Dan and the Dixielanders" will take over to provide music for dancing.

Entertainment that will take place during the course of the evening will include Charleston dancers, a visit from Al Capone and his boys, Elliot Ness, and a few other surprises.

Seating is limited. All those who expect to attend are asked to make reservations early by endorsing a check or money order to the COM and mailing it to Mrs. E. E. Paige, 204 Blue Ridge Rd., China Lake.

## Carnival to be held tomorrow on campus of Richmond School

A fun-filled carnival has been scheduled tomorrow from 2 to 7 p.m. on the Richmond Elementary School campus.

Everyone is invited to attend and enjoy this end of the school-year program, which has been arranged by the Richmond PTA.

With the help of parents and school staff members, youngsters from each of the Richmond School classes, including the special education program, will be manning a variety of game booths at which prizes will be awarded to all participants.

In addition, refreshments will be on sale and there also will be such activities as a cake walk in which the winners will receive a home-baked cake donated for the carnival.

## SHOWBOAT

### MOVIE RATINGS

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

(G) - ALL AGES ADMITTED

General Audiences

(PG) - ALL AGES ADMITTED

Parental Guidance Suggested

(R) - RESTRICTED

Under 17 requires accompanying

Parent or Adult Guardian

Regular starting time — 7:30 p.m.

FRI. 9 MAY

"SERPICO" (130 Min.)

Al Pacino, John Randolph (Police Drama) This film is the true story of New York policeman, Frank Serpico, who works to eliminate corruption among the members of the force. His determination against overwhelming odds leads to the Knapp Commission, bringing matters to a head. (R)

SAT. 10 MAY

"THAT'S ENTERTAINMENT" (130 Min.)

Frank Sinatra, Fred Astaire (Musical Documentary) Celebrating MGM's 50th anniversary, 11 stars introduce highlights from the company's musicals. Hosts include Gene Kelly, James Stewart, Liz Taylor, Debbie Reynolds, Liza Minnelli and Bing Crosby. (G)

SUN. 11 MAY

"THE LITTLE PRINCE" (89 Min.)

Richard Kiley, Steven Warner (Musical Fantasy) Richard Kiley is a pilot and enjoys the freedom of the skies. When he is forced down in the Sahara Desert he meets tiny Prince Steven Warner, who comes from tiny Asteroid B-612. The boy prince is in search of the meaning of life and the aviator seeks a friend to share his interests. (G)

MON. 12 MAY

"THE SEVEN-UPS" (103 Min.)

Roy Scheider, Tony Lo Bianco (Crime Drama) An elite contingent of policemen hunt down hardcore criminals on the streets of New York. (PG)

TUE. 13 MAY

"HOUSE OF WHIPCORD" (94 Min.)

Barbara Markham, Patrick Barr (Terror Drama) After being fined for nude public appearances, Penny Irving becomes friendly with Robert Tayman. She accepts an invitation to meet his parents at their country home. Instead of "nice old folks," Penny finds herself in a house of sadists. (R)

WED. 14 MAY

"MAGNUM FORCE" (124 Min.)

Clint Eastwood, Hal Holbrook (Action Adventure) In San Francisco, an executioner dressed in a policeman's uniform is killing mobsters, pimps and other felons. Detective Harry Callahan uncovers four patrolmen who have formed a quasi-fascist society dedicated to taking the law into their own hands. (R)

THURS. 15 MAY

"THE LEGEND OF EARL DURAND" (110 Min.)

Peter Haskell, Slim Pickens (Western Comedy) Earl Durand is a restless youth with a penchant for statements like "if a man ain't free, he might as well be dead." This leads him into trouble as his exploits break the law and peace of a 1930 Wyoming town. (PG)

FRI. 16 MAY

"THE SUPER COPS" (94 Min.)

Bon Liebman, David Selby (Crime Drama) Maverick cops fight dope and crime in New York. (R)

## Dance set at CPO Club

The Caravan will tune up tonight for a dance at the Chief Petty Officers' Club, beginning at 9 o'clock.

Prior to the dance, George Barnard, club manager, has chosen prime rib to be the specialty of the dining room.

Tomorrow night, the CPO Club chefs will be serving a seafood platter and lobster for hungry patrons.

U.S. Government Printing Office:  
1975 — 483-493 / N0162

From:	PLACE STAMP HERE
To:	

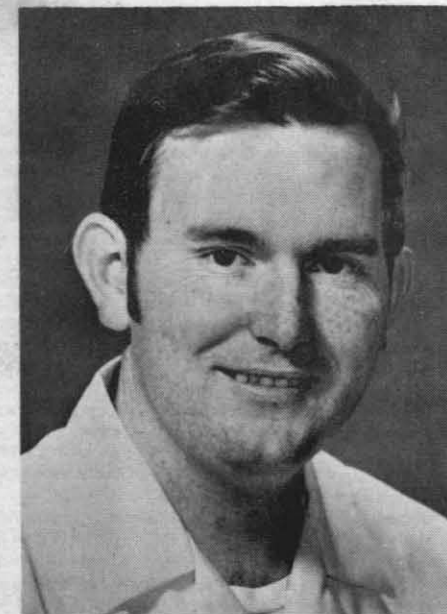
## Prater chosen for 'Bluejacket of Month' honor

Hospital Corpsman First Class Gregory R. Prater, sanitation petty officer at the NWC Dispensary, has been selected as NWC's "Bluejacket of the Month" for May.

The outstanding enlisted man, who also fills the collateral duties of medical in-service training petty officer at the Dispensary, is an eight-year veteran of the U.S. Navy.

As a result of his selection, HM1 Prater will be the guest of the Greater Bakersfield Chamber of Commerce during a fun-filled weekend in that city. He will receive his room and meals at the Bakersfield Inn in addition to gift certificates and discount coupons from merchants who participate in the monthly Bluejacket program.

In addition, prior to leaving the local



HM1 Gregory R. Prater

area, HM1 Prater will be loaned a new Ford automobile by Doug Butler, owner of Desert Motors in Ridgecrest, to use on the weekend trip.

HM1 Prater, who grew up in Tolleson, Ariz., came to China Lake from the preventive medicine technician's school at the Naval Hospital, Oakland. As the Preventive Medicine Technician at the Dispensary, he is personally responsible for the sanitation standards established at the facility.

In the recommendation for "Bluejacket of the Month" written by LCDR. E. J. Hays, the Dispensary's Medical Administrative

(Continued on Page 3)

## Marine awarded Meritorious Service Medal

Calling it a "signal honor," Rear Admiral R. G. Freeman III, NWC Commander, presented the Meritorious Service Medal to Lt. Col. Edwin C. Paige, Jr., U.S. Marine Corps Liaison Officer at China Lake, during a brief ceremony held in the Michelson Laboratory Management Center last Friday.

"Here at NWC, the Marines are a small but potent force," the Skipper said during remarks made prior to the presentation. "This citation from the President of the United States is being presented to Lt. Col. Paige for his outstanding service, a tradition he is continuing here," RADM. Freeman added.

The citation noted that Lt. Col. Paige demonstrated remarkable technical and analytical ability and broad professional knowledge of Marine aviation requirements, while serving at his last duty station. He was head of the Research Development and Studies Section of the Air Weapons Branch in the Office of the Deputy Chief of Staff for Aviation Headquarters, USMC, from February 1971 to August 1974.

"... He was instrumental in the success of two important, high priority Marine aviation research and development programs: the Angle Rate Bombing System development for A-4 aircraft, and the establishment of a program for the development of the advanced Harrier AC-16A aircraft..." the citation pointed out. In addition, the citation continued



nwc rocketeer

Naval Weapons Center  
China Lake  
California

May 9, 1975

Vol. XXX, No. 18

## Center physicists share in work on Stanford Synchrotron Radiation project

### Pay-off expected in improved optics for high energy lasers

By Liz Babcock

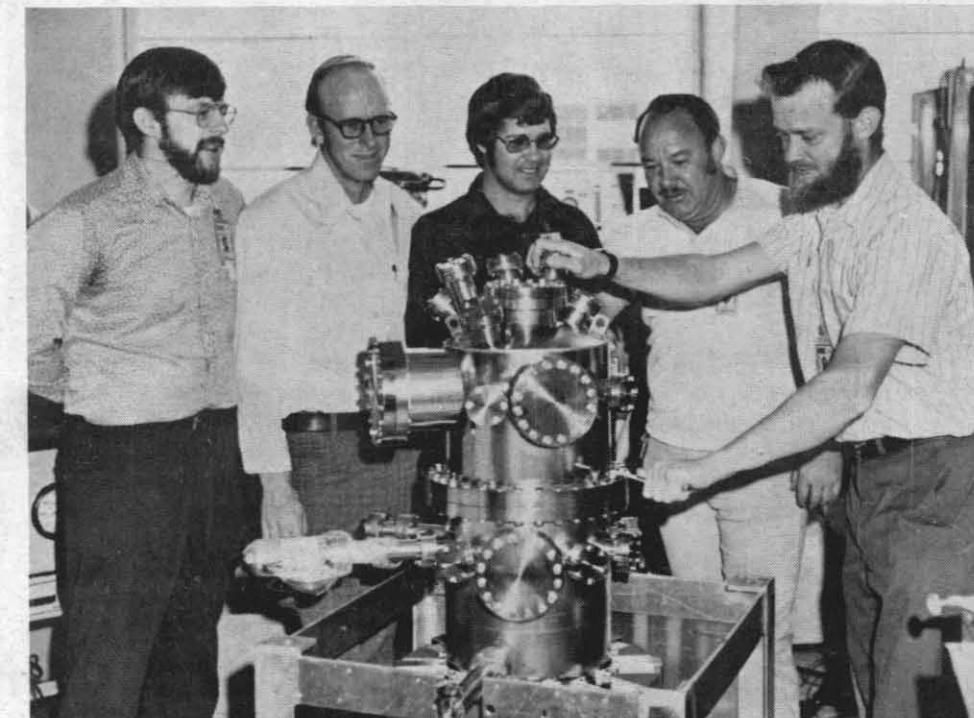
Scientists from the Physics Division of NWC's Research Department have spent a lot of time lately at the Stanford Positron-Electron Accelerator Ring (SPEAR) in Palo Alto, Calif.

A ring of evacuated pipe, 206 ft. in diameter, located at the end of the 2-mile-long Stanford Linear Accelerator, SPEAR produces intense radiation — electrons whiz around the ring at about a million times a second, throwing off energy during each revolution, much as water is thrown from a spinning wheel.

This "wasted" radiation is of great significance to NWC and other federal and private research organizations. In cooperation with the Stanford Linear Accelerator Center and the Atomic Energy Commission, and supported by funds from the Office of Naval Research and the National Science Foundation, a national center for spectroscopy, called the Stanford Synchrotron Radiation Project (SSRP), has been built by NWC, Stanford University, Xerox Corporation, the California Institute of Technology, and Bell Telephone Laboratories. In this unique cooperative venture, these organizations constructed and tested five beam lines to channel the SPEAR radiation for research uses.

Understanding of Materials Gained

Designed for experiments in the X-ray region, the soft X-ray region, and the vacuum ultraviolet, the beam lines are presently being used for a variety of experiments leading to improved understanding of the optical response of



ELECTRON SPECTROMETER—Research Department employees working on synchrotron radiation projects, (left to right) Don Baer, Terry Donovan, Jim Stanford, Vern Jones and Dave Kyser, inspect an electron spectrometer before its installation at the end of the Stanford Synchrotron Radiation Project's vacuum ultraviolet beam line. Designed to hold samples in ultrahigh vacuum, the spectrometer will be used in a variety of experiments, both at Stanford and at NWC. Its first use will be for evaluations of optical coatings for high-power laser components. —Photo by Ron Allen

metals, semiconductors, and insulators to far ultraviolet and X-ray radiation. Through these experiments, scientists will be able not only to gain a better basic understanding of these materials, but also to realize practical benefits in improved optics for high energy lasers and for space astronomy.

Perhaps the world's brightest continuum source of vacuum ultraviolet radiation, SPEAR is extremely stable and highly

polarized, and emits light in nanosecond pulses in an ultraclean vacuum environment. "NWC is able to take advantage of the remarkable properties of SPEAR's synchrotron radiation to carry on a broad scope of basic studies under much more controlled conditions than would be possible in our laboratories."

"The Palo Alto effort enhances related research going on here in Michelson Laboratory," stated Fred Essig, head of the Research Department's Physics Division. NWC, he added, is in on the ground floor for SSRP use, since the organizations supplying funds and effort for the development of the facility are being given priority use, to an extent, of the beam lines to which they have contributed.

(Continued on Page 7)

## Animal control regs to be discussed by Community Council

Further discussion of the Center's animal control regulations—triggered by recent incidents in which two young children have been bitten by dogs—will be on the agenda at Tuesday night's meeting of the China Lake Community Council's board of directors.

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

Also on the agenda will be a presentation by representatives of the High Desert Recycling Club, who will tell about proposals they have for reclaiming salvageable waste materials such as newspaper, aluminum cans and bottles.

An update on activity at Laurel Mt. will be presented by Don Stanton, chairman of the Community Council's TV and FM Committee. Members of this group have been busy installing improved types of TV signal translators that are on loan for a tryout period before a decision is made on which models to purchase with money

(Continued on Page 3)



MARINE LIAISON OFFICER CITED — Marlene Paige watches proudly as Rear Admiral R. G. Freeman III, NWC Commander, affixes the Meritorious Service Medal to the shirt worn by her husband, Lt. Col. E. C. Paige, Jr., NWC's Marine Corps Liaison Officer. The ceremony took place in the Michelson Laboratory's Management Center. It was attended by the full complement of Marines stationed at China Lake, with the exception of one officer who was on travel.





**RIDGECREST CITY SEAL PRESENTED** — Florence Barglowski, a member of the Catholic Congregation, is shown pinning a replica of the Ridgecrest City Seal on the jacket of Fr. Jack, NWC's Catholic Chaplain. The seal was a departing gift to Fr. Jack, who will leave Monday and is scheduled to report soon for duty aboard the USS Kitty Hawk. This gift was brought to the reception by Dennis Wilson, a member of the Ridgecrest City Council, who was acting for Dr. Rex Shacklett, mayor.

—Photo by Ron Allen

## 500 attend farewell reception honoring NWC Catholic Chaplain

More than 500 persons, including top NWC officials and civic leaders from Ridgecrest, attended a farewell reception for Fr. Aquinas J. Smith, NWC's Catholic Chaplain, on Sunday at the Community Center.

Surrounded by the members of his congregation, "Fr. Jack," as he is affectionately known, basked in the high esteem in which he is held at China Lake.

During the course of the reception, he received many gifts, including a replica of the city seal from the City of Ridgecrest, a painting by Francilu Hansen, a stereo cassette recorder, and a photo album. In addition, he received a number of plaques.

### Top Officials Attend

On hand to help the congregation say goodbye to "Fr. Jack" were Capt. R. D. Franke, NWC's Deputy Commander, and Mrs. Franke; Dr. G. L. Hollingsworth, the Technical Director and Mrs. Hollingsworth; Capt. E. M. Crow, Commanding Officer of VX-5, and Mrs. Crow, and Cdr. John Faron, who represented Capt. R. S. Moore, Commanding Officer of NAF, since the latter was unable to attend the party.

Master of Ceremonies was Lt. Col. J. R. Gibbons, the USAF Liaison Officer at NWC. Also on hand to present the city seal was Dennis Wilson, a member of the Ridgecrest City Council.

Father Jack will depart Monday on annual leave before reporting to the USS Kitty

Hawk. He came to NWC in November 1971. A great number of those in attendance at the reception were children and young



**ONE OF THE GIFTS** presented to Fr. Jack at his farewell reception, was a painting by Francilu Hansen, Capt. R. E. Osman (r.), NWC's Chaplain, made the presentation.

people of his parish with whom "Fr. Jack" has been particularly close.

He has been replaced by Lt. Joseph G. Wambach, who has been transferred here from the Island of Guam.

## The Rocketeer

Official Weekly Publication  
Naval Weapons Center  
China Lake, California

**RAdm. Rowland G. Freeman III**  
NWC Commander

**Dr. G. L. Hollingsworth**  
Technical Director

**C. E. Van Hagan**  
Head,  
Technical Information Department

**Don R. Yockey**  
Editor

**Jack C. Lindsey**  
Associate Editor

**Diane Coryell**  
Editorial Assistant

**Ron Allen**  
Staff Photographer



**DEADLINES:**  
News Stories Tuesday, 4:30 p.m.  
Photographs Tuesday, 11:30 a.m.  
The Rocketeer receives Armed Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with Nav Exos P35, 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

## 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 652, Ext. 2049. Ads will run for one week, 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 656 or 657). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of 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-116, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

**Physical Science Administrator, GS-1301-14, PD No. 7545048, Code 457** — This is a temporary position not to exceed one year. This position is head, Propulsion Systems Division, Propulsion Development Department. The incumbent is responsible for the direction of the division's programs, projects and mission. He is responsible for technical and management policy, allocating and committing money, personnel, time, equipment and facilities. He is a member of the department council and contributes to the formulation of department policy and goals. **Job Relevant Criteria:** Must have demonstrated ability in technical, personnel and fiscal management. Must be capable of developing and executing new programs. Must be familiar with Navy headquarters programming operations.

**File applications for the above with Mary Morrison, Bldg. 34, Rm. 210, Ph. 2395.**  
**Administrative Intern, GS-301-5 or 7, PD No. 7465021, Code 652** — (1 vacancy) This position is that of a management intern in the Naval Weapons Center's Management Intern Program. Incumbent of this position will enter an intensified training assignment of approximately six months duration designed to acquaint the incumbent with and provide practical experience in the analysis and development of component and system synthesis. At the completion of the training assignment, the incumbent will be permanently assigned to one of the various staff functions at the Center. Those candidates certified as "best qualified" will undergo oral interviews before representatives of the Center's Administrative Development Committee. **Job Relevant Criteria:** Bachelor's degree or above with emphasis in Public Administration / Business Administration, or the Social Sciences. Score attained on the PACE / FSEE or CSC Test 700, Parts A&B (the in-service version of the FSEE). Effectiveness in personal work relationships with a variety of organizational levels of responsibility; and ability to express self orally and in writing.

**Clerk-Typist, GS-322-3 or 4 or Personnel Clerk (Typing), GS-303-4, PD No. 7465051, Code 54** — This position is located in a Personnel Service Division of the Personnel Department. Incumbent performs the following duties for a major department(s): Processes all actions affecting appointments, promotion, change to lower grade, transfers, within-grade and quality step increases, pay adjustments, separations and conversion of appointments. Performs non-competitive qualifications ratings, processes classification actions and maintains personnel files and records. Processes claim for retirement, etc. **Minimum Qualification Requirements:** GS-322-3: One year of general clerical experience, GS-322-4: Two years of general clerical experience. GS-303-4: one year of general experience and one year of specialized experience. **Job Relevant Criteria:** Qualified typist, knowledge of regulatory instructions, OCMN instructions, and NWC instructions. Ability to provide procedural information in such areas as health insurance, life insurance, retirement and other areas related to Personnel, ability to deal tactfully with people. **Advancement Potential:** Personnel Assistant, GS-6.

**File applications for the above with Sue Prasolowicz, Bldg. 34, Rm. 208, Ph. 2577.**

**General Engineer / Electronics Engineer, Supv., GS-801 / 855-14 / 15, PD No. 7531045, Code 314** — This position is head, R. F. Technology Division, Surface Missiles Department. This is a newly created division devoted to the analysis, design and development of R. F. guidance systems, surface and airborne radars, R. F. subsystems, components and technology for anti-aircraft systems, including design and development of associated search,

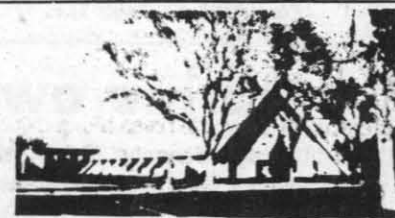
acquisition and fire control systems. Capabilities include conducting requirements and design trade-off studies; modeling; computer simulation and analysis; system and subsystem definition; design and evaluation; hardware construction, assembly, and test; data compilation and analysis. Incumbent will coordinate, supervise and manage the operations of the division. **Job Relevant Criteria:** Must have extensive experience in tactical missile weapon system definition, design requirements analysis and specification and systems definition, design requirements analysis and specification and system development. We must have demonstrated ability to deal effectively with NWC management, systems commands, and other DoD agencies and contractors. Knowledge of R. F. Technology, and ability to supervise.

**Electronics Engineer / General Engineer, Supv., GS-855 / 801-13, PD No. 7531044, Code 3141** — This position is head, Simulation / Dynamics Branch, Surface Missiles Department. This is a newly created branch specializing in weapon system synthesis through requirements analysis; mathematical modeling; design and implementation of analog, digital and semiphenomenal computer simulations; design trade-off studies; prediction, analysis and definition of system operational performance and capabilities; analysis of interactions between components / subsystems and such characteristics as missile dynamics, intercept dynamics, target signal, signal character, image phenomena, etc. Primary emphasis is on R. F. guidance systems, missile flight control systems, and overall system simulations. **Job Relevant Criteria:** Must have extensive experience in tactical missile weapon system definition, design and development; component and system synthesis and analysis. Experience in coordinating aspects of project or branch effort and interacting with systems command and other off-center agents is desirable. Must have thorough understanding of computer simulation processes and procedures. Ability to supervise.

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(Continued on Page 11)



## DIVINE SERVICES

PROTESTANT	
Sunday Worship Service	1015
Sunday School — All Ages	0900
Wednesday Noon Bible Study	1130
Sunday School Classes are held in Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite the Center Restaurant.	
Communion Service 1st Sunday of the month.	
ROMAN CATHOLIC MASS	
Saturday 1700 fifteen Sunday obligation	
Sunday 0700, 0830, 1130	
BLESSED SACRAMENT CHAPEL MASS	
Daily except Saturday	1135

CONFESSIONS	
Saturday	1545 to 1645
Sunday	0800 to 0825

RELIGIOUS EDUCATION CLASSES	
Sunday Kindergarten thru 6th grades	1015
Pre-school	1530
Wednesday First thru sixth seventh & eighth (Junior High)	1900

Above classes are held in Chapel Annexes across from Center Restaurant. As announced.

"In Home" Discussion Groups Monthly Youth Rallies

Contact Chaplain's Office for specifics.

**JEWISH SERVICES**

**EAST WING — ALL FAITH CHAPEL**

Friday 1st and 3rd ONLY — (Sept.-May)

Sabbath Services Sabbath School 2000 0900

**UNITARIANS**

**CHAPEL ANNEX 95**

Services — (Sept.-May) 1930

## Lower withholding tax rates go into effect this month

Reduced withholding tax rates for civilian employees of the Naval Weapons Center will go into effect for the pay period starting May 11 and show up on paychecks that will be distributed May 30, it was reported this week by Payroll Branch personnel.

In spite of a delay in receiving the new withholding tax rate tables at the Center's military payroll office, Armed Forces personnel at China Lake will find the change reflected in their next paychecks on Friday, May 15.

The lower withholding tax rate is the result of a new tax reduction act that was signed into law by President Gerald Ford during the latter part of March.

Because of the change in the withholding tax rate, the Internal Revenue Service (IRS) is urging taxpayers to make sure that their tax is based on the correct number of withholding allowances, and file for a correction if necessary.

By obtaining a copy of the new IRS Form W-4, taxpayers can determine the number of withholding allowances they should use.



**SAFETY AWARD WON** — Members of the Pierce School crossing guards (two of whom are shown above at work) were cited recently for outstanding achievement for school safety by the National Safety Council. Nancy Anderson, president of the Pierce School PTA, picked up the award at the 34th District's PTA convention, held last month in Lancaster. Members of Nicki Haven's sixth grade class who handle the crossing guard duties are: Meg Garret, Kelli Peterson, Karl Nicklis, Patty Albright, Brenda Macomber, Barbara Galyon, Mary Frances Greenland, Brian Faith, Steve Bellen and Lynn Bushdorf.

—Photo by Ron Allen

## Promotional opportunities...

(Continued from Page 2)

systems, surface and airborne radars, R. F. subsystems, components and technology for anti-aircraft missiles, including design and development of associated search, acquisition and fire control systems. Capabilities include conducting requirements and design trade-off studies; modeling; computer simulation and analysis; system and subsystem definition; design and evaluation; hardware construction, assembly, and test; data compilation and analysis. Incumbent will coordinate, supervise and manage the operations of the division. **Job Relevant Criteria:** Must have extensive experience in tactical missile system definition, design requirements analysis and specification and systems definition, design requirements analysis and specification and system development. He must have demonstrated ability to deal effectively with NWC management, systems commands, and other DoD agencies and contractors. Knowledge of R. F. Technology, and ability to supervise.

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

**Electronics Technician, GS-856-11, PD No. 7535104, Code 5541** — Position is located in Electronics Prototype Branch, Engineering Department. Duties include experimental design and testing on advanced electronic circuits, instrumentation design, specification and purchase, acting as assistant contracts coordinator and writing of reports and documentation. **Job Relevant Criteria:** Specific knowledge of the elements of guided missile systems and associated test and evaluation equipment. Working knowledge of Naval Procurement procedures and a basic understanding of contract management concepts. Experience in dealing with private industry contractors and other government facilities. Demonstrated ability to provide technical direction to working groups.

**Supervisory General Engineer, GS-801-13, PD No. 7535039, Code 3141** — Position is located in Mechanical / Special Equipment Branch, Engineering Design Division. Incumbent performs planning for technical work and for personnel, manpower planning and budgeting for the branch. Performs technical assignments and leads branch in performance of production engineering of assigned components or sub-systems within weapons systems or supporting equipments including miniature gyroscopes, cryogenics, electronics, mechanical assemblies, and avionics test equipment. **Job Relevant Criteria:** Experience in project planning. Experience or training in management and supervision. Extensive experience in electronic circuit design and systems engineering.

**Electronics Technician, GS-856-9, PD No. 7355061, Code 5542** — Position is located in the Electronics Prototype Branch, Engineering Department. Duties include laboratory testing and alignment of electronic devices and equipment, inspection and evaluation of contractor performance and hardware for conformance to WS6536 and writing of reports and documentation. **Job Relevant Criteria:** Specific knowledge of the elements of missile guidance systems and associated test and evaluation equipment. Basic knowledge of the theory of operation of electronic circuitry such as audio and visual amplifiers, multivibrators and benching oscillators. Potential to be certified a Category "A" Senior Examiner under WS6536. **File applications for the above with Carol Downard, Bldg. 34, Rm. 204, Ph. 2725.**

**Electronics or Electrical Engineer, GS-855-9 / 11, PD No.**

**Wil's Corner...**

(Continued from Page 10)

at NWC ext. 5462, or me at the gymnasium. My number is 2334.

### Soccer Match Set

A soccer match between the Naval Weapons Center and a team from San Gabriel, will be held Sunday at Kelly Field, on the Murray School campus. It will begin at 10:30 a.m.

The public is invited to attend. The local team has been practicing for several months and should put up a good battle with the more experienced squad from San Gabriel.

## Employee in the spotlight

Gerald D. Brantner, a glazier in the Public Works Department's Carpenter Shop, began life in trouble — and stayed that way for many years.

He was born in Compton, Calif., but grew up in Visalia where his mother had abandoned him to the care of an aunt and uncle. He ran off from Redwood High School in Visalia and managed to get himself sent to reform school before too much time had passed.

The next few years were spent bumming around from menial job to menial job — first as an installer of music equipment for a Los Angeles firm, and as a gas pump jockey at various service stations.

He came to the local area in May 1958 and spent a while trying to learn the auto mechanics trade. He was employed by Tom's Desert Service Station and by Bud Alford at the Heavy Duty Shop, both in Ridgecrest.

### Tried "Hippie" Life-style

Then Jerry tried the "Hippie" style of life. For nearly a year he lived in a huge wooden crate behind a service station, and worked as a laborer whenever he could find employment.

After being fired from a job as a gas attendant, Jerry went to work for Steve's House of Glass where he learned his trade. That was in 1962.

Then, the event that turned Jerry's life around happened. He met Linda Allen. After a brief courtship, the couple was married in 1963 and Jerry moved back to Visalia to work as a glazier.

"I felt like I lived on poverty row," he remembered. Jerry was earning \$1.25 per hour, barely living wages for a man with a wife. So he returned to the Indian Wells Valley.

From 1965 to 1966 Jerry managed Millie's House of Glass for its owner, Millie Bass. Still restless, he quit that job to work as a laborer and equipment operator at various construction jobs for another year.

Then, in late 1966, Jerry came to work on the Center as an automotive equipment serviceman in the Public Works Department's Heavy Duty Repair Shop. He began as an apprentice and became a journeyman four years later.

### Prefers Working With Glass

"I liked that job, but I still leaned toward being a glazier," he pointed out. In 1971, he returned to working with glass.

At the present time, there are only two glaziers on the Center to handle the numerous types of glass work needed in NWC housing, offices, and for projects being conducted here. Jerry is assisted by Carl Johnson, who he says is a "good man."

For a long time, Jerry worked alone. When the "Newmacs" were being remodeled, he and Carl installed 1,200



Gerald D. Brantner

windows in a three-month period, working half a day at a time. "I began that job working alone and Carl came along later," Jerry said.

He's had some hairy moments working with glass. Once he dropped a 5 by 12 ft. piece of plate glass on his head. It broke, but fortunately, Jerry didn't. He's cut glass for projects, such as the Igloo project, and is available anytime when there's glass that needs to be cut and installed.

Jerry enjoys hunting and fishing, archery and motorcycle riding. He also likes to build things around his home in Ridgecrest. Linda also likes to fish. In addition, she makes most of her own clothes and those of their daughter, Rhonda, 10 years old.

"She spends the rest of her time taking care of me," Jerry said. "When I think of what my life would be like if I hadn't met her..." he added, shaking his head.

He didn't need to complete the sentence. Jerry's life speaks eloquently for itself.

## Registration now open

### for Summer Music Camp

Plans are under way for the second annual Summer Instrumental Music Camp to be held at Cerro Coso College, beginning on June 9.

The IWW Music Parents Association, sponsors of this event, has announced that this year the summer camp will be open to students in the sixth grade and up.

Two bands will be formed — a concert band for intermediate level students and a wind ensemble for the more advanced students.

Registration will begin soon at schools throughout the valley. The registration fee is \$10 per student, or a maximum of \$20 per family.



**CHEMISTS SHARE PATENT AWARD** — Dr. Hugh Hunter (right), head of the NWC Research Department, summoned four Chemistry Division employees to his office recently for a ceremony during which he presented a patent award for work in which each of them had a part. The co-recipients of the patent and a \$100 check are (l.-r.) Dr. William S. McEwan, head of the Chemistry Division; Herbert P. Richter, a chemist; Dr. William P. Norris and Dr. Carl A. Heller, both research chemists. The four men devised an air activated hydrogen oxalate ester-fluorescer chemiluminescent system.

—Photo by Ron Allen



## Ted Dominguez is new manager of gymnasium, pool

By Wilt Wyman

Ted Dominguez is a welcome addition to the gymnasium staff. He has recently been hired as manager of the gymnasium and swimming pool and will be in charge of all evening activities at the gym.

One of the first news releases from him concerns the closing of the gymnasium and pool from 7:30 a.m. on Tuesday, May 27, until 11 a.m. on Monday, June 2. This will be done in order to resurface the basketball floor. During the week of June 2 to 6, all facilities will be back in operation except the basketball court.

### Softball Under Way

Twelve women's teams and 11 slow pitch squads began play this week in the China Lake Intramural Softball League. Slow pitch games will be played Monday through Thursday at Schoeffel South, while the women will play Tuesday through Thursday on Schoeffel North. In addition, teams entered in the women's division will play games on Wednesdays at Reardon Field. All others will begin competition on Monday.

### Recreation Volleyball

To date, more than 20 women have signed up for Monday night volleyball. Individuals who register will be placed on teams in an attempt to balance squads as evenly as possible. There is no cost for this program — so take advantage of it by signing up.

The theme for this month's women's fitness class will be "How To Exercise in Strange Places." This program will be beneficial to those who cannot set aside time for regular exercises.

In addition, exercises that can be done in a swimming pool will be taught at 7 p.m. on Monday and at 10 a.m. on Thursday, May 15. It is not necessary to know how to swim to participate in these water exercises. However, swim suits will be required.

### Women's Volleyball

The Court Clowns finished in first place in the Women's Division of the China Lake Intramural Volleyball League. The Ms. Takes, second place finishers, barely edged the Court Blanche and Undecided teams, who tied for third place.

Members of the winning team are Dorothy Saitz, Marijean Ackers, Laura Swift, Regina Torres, Linda Rolfs, Elena Vitale, Erma Cortichiatto, Susan Short and Elaine Mikkelsen.

### Cross Country Track Meet

The 11th Naval District has announced it will hold a cross country track meet on May 29 at NAS Miramar. This event will be open to both male and female runners.

In addition, a chess tournament will be hosted by Naval Station at San Diego on May 27-30. Further information on these two events may be obtained by calling Ian Refo (Continued on Page 11)

## 35 runners start, finish 10-mi. race

Thirty-five brave and hardy runners entered and finished the "Over-the-Hill Track Club" 10-mile run last Sunday, despite tremendous winds that lasted during the entire race.

"Cinderella" (Dick Hughes), president of the club, was the first entrant to finish the race. His time was 57 min., 35 sec. Right behind him was George Burdick, Burroughs High School senior and track star, who covered the distance in 58 min., 25 sec.

The first woman to arrive at Inyokern Park (the finish line) was Regina Schuetze, who posted a time of 1 hr., 17 min., and 8 sec. The youngest participant in the race was 7-year-old Leslie Wilson. Her time for the 10-mi. run was 1 hr., 22:48 min., only 25 min., 13 sec., behind the much more experienced winner.

The race began at the intersection of Hwy. 395 and the old Inyokern Rd. where it meets at the end of S. China Lake Blvd. The runners' path was along the road to Inyokern Park, where a picnic was held. In addition, all of the finishers were presented with "Over-the-Hill Track Club" T-shirts.

Finishing third and fourth were Don Henderson and Dave Maddox, followed closely by Ed Larosche, Jr., Scotty Broyles and Gerald Ansell.

Others who competed were Robert Smith, Mike Hartney, Steve Bovee, Norm Nieberlein, David Rugg, Ray Jacobson, Frank Buffum, Joseph Kovar, Dick Anderson, Dennis Vories, Byron Richardson, Paul Markonis, John Cooper, Mark Pohl, Travis Veon, Earl Towson, Daniel Alart, Cindy Hart, Marla McBride, Joy Ballard, Dorothy Saitz, Chris Wilson, Gratia Boehme, Kathy Larosche, Tammy Hughes and Bob Gilkinson.



**OUT AT FIRST** — Doug Fisher (No. 12), first baseman for the Hide Away softball team, has already relayed the ball to the third baseman following an easy putout at first of an unidentified Nellis AFB player. The Hide Away won the ball game, 7-2, and the tournament last Friday and Saturday by sweeping all three of its games against the three other teams entered in the competition. The tourney was sponsored by the IWV Softball Association. All games were played at Reardon Field.

## Hide Away softballers crush opponents in local tournament

The Hide Away softball team, sponsored by Frank Robinson and managed by Max Smith, won a much-needed victory this past weekend against three visiting teams. This was the first of a planned series of "weekend" tournaments sponsored by the Indian Wells Valley Softball Association.

The Association, which exists solely to further interest in softball in the local area, has invited teams to play on successive weekends at Reardon Field throughout the months of April and May.

In addition, the IWVSA will sponsor two big tournaments this year — the Men's Invitational and the Women's Invitational — in which Class A and Open Class teams will be invited to participate.

During the round-robin tournament, held on Friday and Saturday, the Hide Away nine won all three of its games. The first was a brilliant one-hit shutout pitched by Bert Andreason against a hapless Trona squad. The final score was 9-0.

The Tronans, definitely outclassed throughout the tourney, failed to score during their three games while giving up 34 runs. The other two visiting teams were a squad from Nellis AFB in Las Vegas, which finished in second place in the tourney, and the NAF Hawks.

Nellis played the Hawks at 11 a.m. Saturday and won easily, 10-0. Jim Jordan, the winning pitcher, allowed only two hits by the Navy boys. Barry Olson was the losing pitcher.



An incident during the second game of Friday and Saturday's "weekend" tournament regarding the umpires expected to officiate all of the games, nearly caused the tourney to be cancelled.

However, quick action by Max Smith, president of the Indian Wells Valley Softball Association, sponsors of the tournament with the cooperation of our own Special Services Division, saved the day.

Max quickly pressed into service for that game two men who had officiated in the past. He then located Tom Fortney, umpire-in-chief of the High Desert Officials Association, who called the remaining games.

The incident began when Jim Tyrell, president of the Valley Sports Association, refused to honor a verbal financial agreement with the IWVSA to officiate during the tournament's games, citing the need for a signed contract between his group and the IWVSA.

I feel that Tyrell's insistence upon a signed contract, foisted upon Max while he was trying to run a tournament and manage a softball team, might have come about from his lack of understanding of the separate positions of the IWVSA, NWC's Special Services, and the Hide Away softball team.

### Formed To Promote Softball

The IWVSA has been formed expressly for the purpose of promoting softball in the local area, and its affiliation with the Ridgecrest Recreation Department and NWC's Special Services, is merely one of cooperation.

As far as the tournaments staged by the IWVSA are concerned, Special Services is responsible for coordinating playing fields — nothing more than that.

Max is not only president of the IWVSA, he is also the manager of the Hide Away softball nine. However, the two groups are separate entities. The IWVSA is responsible for staging a number of tournaments here this season. Included will be the three "biggies" — the fast and slow pitch competitions, and the women's tourney. The association will invite teams to play in these tournaments. One of the teams that will undoubtedly receive an invitation is the Hide Away squad, which is sponsored by Frank Robinson.

Hopefully, the IWVSA will tie up the loose ends with Tyrell's group. I personally don't think the valley is large enough to support two arbitrators' associations, but I've been wrong before.

One thing is for sure. If Smith and the IWVSA realize all of their stated goals, then plenty of room will exist for that many officials.

The IWVSA will continue to foster interest in softball in this area — not only for spectators, but also for players. The IWVSA wants to make playing softball rewarding to the players, as well as fun. All money earned by the association will be put back into the perpetuation of softball locally. The group is shooting for more publicity, trophies, awards and recognition for its players.

More power to them.

## Sign-ups continue for youth softball

Registration for the girls' and boys' softball programs is still being conducted by the NWC Youth Center, as well as by the Ridgecrest Recreation Department.

Final date to sign up is June 6. All civilian and military dependents of personnel at NWC are eligible to participate, regardless of their place of residence.

Registration is being handled at the Youth Center on Monday and Saturday from 9 a.m. to 5 p.m. or Tuesday through Thursday from noon to 5 p.m., and from 6 to 9 p.m.

## Little League Standings

Following are the standings in the Major Division of the China Lake Little League as of Monday, May 5:

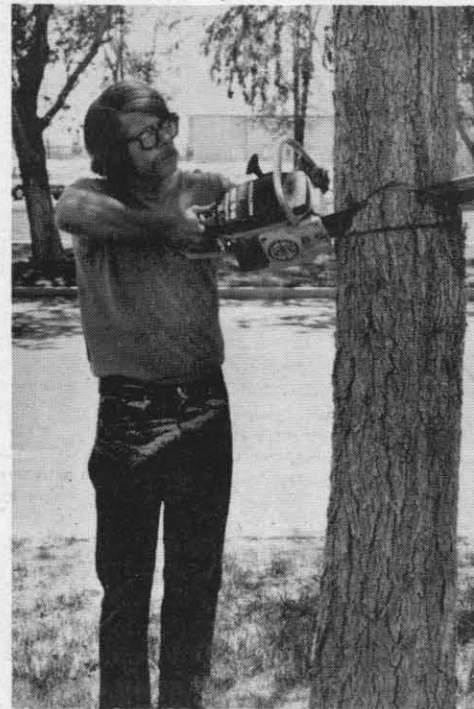
Team	Won	Lost
Yankees	2	0
Red Sox	2	0
Dodgers	1	2
Tigers	1	2
Giants	0	2

## Long range tree maintenance plan at NWC enters phase 3

Phase No. 3 in a long-range plan of tree pruning, removal and replacement within the Naval Weapons Center housing area is now under way.

One part of this work is most noticeable along Blandly Ave., where Public Works Department laborers who care for the Center's roads and lawns are cutting down every other tree.

Once the old trees have been removed, plans call for replanting fruitless mulberry trees in their place. According to Vern Bradshaw, a contract inspector in the



**A TREE TRIMMER**, Jack Carr, uses a power saw to cut a wedge before felling one of the trees being removed along Blandly Ave. —Photo by Ron Allen

Maintenance Control Division of the Public Works Department, the fruitless mulberry trees are a better grade of tree and will have a longer life than the Siberian elms that are being cut down.

Eventually, when the fruitless mulberry trees are grown, the remaining Siberian elm trees along Blandly Ave. also are to be removed, Bradshaw added.

Approximately a year ago, the Center's long-range tree maintenance plan was announced, and a contract was awarded to and carried out by the Bay Cities Disposal Service. This agreement called for removal of some 1,700 trees throughout the NWC housing area.

The next step in this program was the replanting of all of the trees along Saratoga Ave., which was done by Public Works Department personnel. Now the work of

tree removal along Blandly Ave. also is being handled by Code 70 employees.

Coming up soon will be the awarding of another contract for the removal of an additional 2,500 trees throughout the NWC housing area. In addition, yet to be started is the job of removing and replacing the old trees that line Halsey Ave. from the main gate to the traffic circle by planting olive and juniper trees in their place.

Bradshaw, whose responsibility is grounds care and conservation, as well as the economical upkeep of landscaped areas around the Center, notes that the over-planting of trees during past years at China Lake has led to a number of costly maintenance problems.

### Large Trees Guzzle Water

A fully mature tree, 18 to 24 in. in diameter and 25 to 45 ft. in height, requires several hundred gallons of water per day, and a survey taken a year ago shows there are 43,000 trees within the Center's housing area. A 50 per cent reduction in the total number of trees will mean a substantial savings in water usage, with no detrimental effect to the pleasing appearance of the Center, Bradshaw pointed out.

In addition, this program also will ultimately generate savings in excess of \$100,000 through reduction in the cost of trimming and fertilizing trees by spacing them sufficiently far apart to give each one adequate growing space.

When trees are grown too close to one another, the wind causes the limbs of one tree to rub against a neighboring tree resulting in a damage spot which becomes a prime entry place for various diseases that can affect the tree.

The Public Works Department's long range program includes fertilizing, watering, trimming and planting through the Center to eliminate grounds care problems, reduce costs, and enhance the overall appearance of the China Lake community.

## Medal presented ...

(Continued from Page 1)

on travel. Also present was Lt. Col. Paige's wife, Marlene, and Dixie Miller, the wife of Lt. Col. D. E. P. Miller, assistant NWC Marine Corps Liaison Officer.

In addition, Kay O'Brien, the wife of Maj. Joe O'Brien, the office's Ground Weapons Systems Officer, and Jeri Short, USMC Liaison secretary, were on hand.

An out-of-town visitor, Col. D. L. Harvey, assistant to the director of the Development Center for Joint Aviation Test Matters, Quantico, Va., also attended the ceremony.



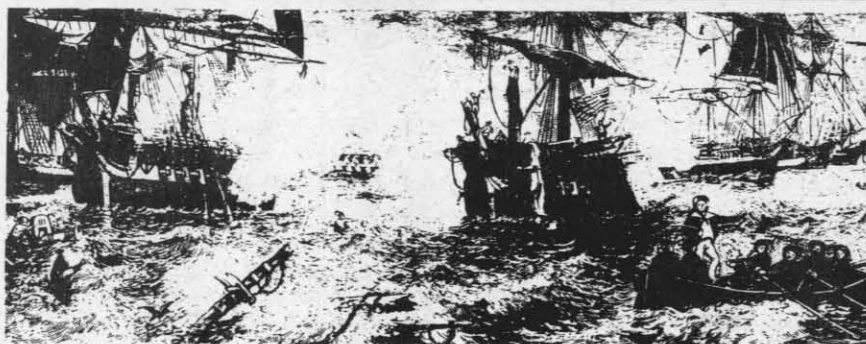
**TREE REMOVAL PROGRAM CONTINUES**—Public Works Department employees this week began removing every other tree along Blandly Ave. as part of a long range maintenance program. Small limbs and leaves were fed into the chipper (in foreground) and then hauled away to be used later as mulch. The Siberian elms being removed will be replaced by fruitless mulberry trees.



## U.S. NAVY'S

## 200th BIRTHDAY 1775 - 1975

These important events in the history of the U.S. Navy are recounted here for the purpose of calling attention to the U.S. Navy's 200th birthday on Oct. 13, 1775, as the entire nation prepares for the Bicentennial observance during the year 1976.



"He must have been an American; for no other people on earth could load so rapidly, fire so accurately, and fight so desperately."

Capt. F. Pitot, Commanding Officer, *La Vengeance*, 1800

The young American Navy protected its shorelines, fought privateers in the Caribbean, and fought the Barbary pirates to show the world that the new nation was determined to protect her rights at sea.

Maintaining the ability to "Load so rapidly, fire so accurately" is the purpose for which NOTS/NWC and other Navy R&D establishments exist, although the weaponry of today and the future is considerably more exotic than that of 1800.

## Center's 'Bluejacket of Month' chosen...

(Continued from Page 1)

Officer, HM1 Prater was cited for his "... ability to cooperate with all food service activities at both NAF and NWC and with the club managers and other managers of non-appropriated fund activities..." during the performance of his duties.

In addition, the recommendation noted that the May Bluejacket's professional abilities are documented by his reports and by the high esteem in which he is held by the personnel with whom he works.

### Training Program Tops

The recommendation further stated that the medical Inspector General said, during a recent visit, that the Dispensary's medical training program is one of the best he has seen during his travels throughout the Navy. All this reflects upon the thoughtful care exercised by this month's Bluejacket in the performance of his duties.

HM1 Prater, who is a bachelor, has an unusual hobby for a career military man — he collects and restores antiques. Approximately three years ago, his interest and hobby became a business. He now owns an antique store in San Diego, which is managed by his mother.

"The antique business requires a great deal of study and attention to the current market. My family has been collecting for

many years and I fell into the field quite naturally," he explained. "It's a very good business. Antiques appreciate approximately 20 per cent a year — usually — and my store is experiencing its best year right now, so things are looking up," he added.

The May Bluejacket also likes to go fishing and camping. He has a trip planned later on this month and is looking forward to "getting away from it all" for a while.

## New FM translator equipment installed at Laurel Mountain

Don Stanton, chairman of the China Lake Community Council's TV-FM Committee, announced this past week that new FM translator equipment has been installed to transmit Radio Stations KFAC, KLOS, and KOTE from Laurel Mt.

Stanton said that Radio Station KOST is presently off the air, but added that new translator equipment will soon be installed for that FM station, and it will be returned to operation.

"We are continuing to evaluate equipment loaned to us by the EMCEE Corp. that is presently being used to transmit Channel 7 over UHF Channel 63 in the valley," Stanton said.

"We would appreciate hearing comments regarding the quality and clarity of Channel 7 as it is received over UHF, and also about the three FM radio stations," he added.

Persons who wish to do so should contact Natalie Harrison by calling NWC ext. 3575, or, they may write the Community Council, P.O. Box 5443, China Lake, CA 93555.

## Community Council...

(Continued from Page 1)

collected during the communitywide TV Booster Fund Drive.

Complaints that have surfaced regarding the tree removal program in the housing area, as well as about the noise and dust created by users of some motorcycle access routes, also will be aired, and solutions sought, at Tuesday night's Community Council meeting.

## Candidates sought for Council board

China Lake residents interested in serving as a representative on the Community Council's board of directors from combined Precincts 1 and 2 have until next Friday, May 16, to make their interest known.

This can be done by contacting Don Stanton, chairman of the nominating committee, by calling either NWC ext. 6340 or 446-3764 after working hours.

Anyone 18 years of age and over who resides within the boundaries of Precincts 1 and 2 is eligible to apply for this vacancy on the CLCC's board of directors.



## DoD top official, SecNav commend efforts by U.S. forces in Vietnam

(Editor's note: As the communications went out ordering the final withdrawal of Americans from Vietnam, the following messages were received at NWC this past week.)

To the members of the Armed Forces:

As the last withdrawal of Americans from Vietnam takes place, it is my special responsibility to address to you, the men and women of our Armed Forces, a few words of appreciation on behalf of the American people.

For many of you, the tragedy of Southeast Asia is more than a distant and abstract event. You have fought there; you have lost comrades there; you have suffered there. In this hour of pain and reflection you may feel that your efforts and sacrifices have gone for naught.

That is not the case. When the passions have muted and the history is written, Americans will recall that their Armed Forces served them well. Under circumstances more difficult than ever before faced by our military services, you accomplished the mission assigned to you by higher authority. In combat you were victorious and you left the field with honor.

Though you have done all that was asked of you, it will be stated that the war itself was futile. In some sense, such may be said of any national effort that ultimately fails. Yet our involvement was not purposeless. It was intended to assist a small nation to preserve its independence in the face of external attack and to provide at least a reasonable chance to survive. That Vietnam succumbed to powerful external forces vitiates neither the explicit purpose behind our involvement — nor the impulse of generosity toward those under attack that has long infused American policy.

Your record of duty performed under difficult conditions remains unmatched. I salute you for it. Beyond any question you are entitled to the nation's respect, admiration, and gratitude.

James R. Schlesinger,  
Secretary of Defense

The performance of the U. S. Navy and Marine Corps in the evacuation of Americans and Vietnamese was outstanding. Those who participated have earned my lasting respect for their professional competence in conducting the final military mission of our nation's Vietnam experience.

This particular effort was typical of the many heroic actions of sailors and marines throughout the years of our involvement in the Southeast Asian conflict.

I express deep appreciation to all men and women of the Navy and Marine Corps for their dedication to duty—in whatever location or assignment they have had during these difficult years.

My appreciation extends to the civilian members of the department and to the families of our personnel. Great personal sacrifices have been made as a matter of routine.

These sacrifices are keenly felt at this moment. Whatever our heartaches at the outcome of events, we must now look to the future. Our Navy and Marine Corps must remain strong.

Our personal allegiance to our country must not be forgotten. God bless you for being great Americans.

J. William Middendorf, II  
Secretary of the Navy

## Happenings around NWC

"Our goal is to train 10 per cent of the total population of the Indian Wells Valley in first aid techniques" Dr. Carl Heller, first aid chairman, announced at the Red Cross annual meeting.

Dr. John Freeland, Chairman of Volunteers for the IWV Branch of the Red Cross, reported to the assembled guests that nearly 9,500 hours of time had been donated by local volunteers who participate in various Red Cross programs here during the year.

Casework volunteers, who are on duty 24 hours every day have provided assistance to 320 military, veteran, and civilian families since last May, it was added.

The Hospital Volunteer and the Sewing Group at the Dispensary worked relatively few hours because of the cutback in the number of doctors, but are on a standby basis.

The Knitting and Crocheting Production Unit, however, spent 1,660 hours making health and comfort items for seven military and civilian hospitals.

The Water Safety Program is currently being revised and has plans for an active year ahead.

### Youth Center Plans Contests

Want to know how to fiddle worms? This popular method of bringing worms to the surface can be especially helpful now that fishing season is here. The China Lake Youth Center is planning a worm fiddling and spin casting contest on Saturday, May 17.

Carol Hape is available at the Youth Center to explain the technique of worm fiddling to the uninitiated. She may be contacted by phoning NWC ext. 2909 for further information.

In addition, Mrs. Hape stated that local

youths should begin now looking for a prospective champion jumping frog to compete in a contest to be held in August.

She also noted that a few openings still exist in judo, wrestling, boxing and karate classes offered by the Youth Center.

### Combo Booked at Chaparral

The "Euell Gibbons" dance combo will play tonight at the Chaparral Club, beginning at 9:30.

Walt Schimke, club manager, invites all military personnel in the grades E6 and below to come out for an evening of fun.

He also reminded club patrons that Tuesday and Thursdays are pizza nights at the club. "Plenty of pizza and beer for a nominal price," he said.

### Special Course for Women

A course designed to develop the management skills of women supervisors, with particular emphasis on the problems of supervising women employees, will be held June 2, 3, and 4 in Rm. 212 of the Training Center.

Shirley Teeter, of the University of California at Santa Barbara, will be the instructor.

All persons interested in attending this course should submit a proper NWC enrollment form via departmental channels no later than Monday, May 19.

### Little League vacancies

Vacancies still exist in the Farm and T-Ball Divisions of the China Lake Little League for 8 and 9 year olds.

Qualified youths who want to play ball this season should call Chuck Dye, president of the league, at NWC ext. 3681, or George Linstead, ext. 7325.



"FRACTURED FOLLIES" BOOSTERS—Both Rear Admiral R. G. Freeman III, NWC Commander, and Dr. Rex Shacklett, Mayor of Ridgecrest, are among the enthusiastic supporters of the PTA-sponsored "Fractured Follies." The Skipper is shown as he purchased his tickets for the musical comedy show from Pat Noland (at left), who is in charge of ticket sales. At the same time, Jerry Fuller accepted a check from Mayor Shacklett in exchange for the tickets he received. Mrs. Fuller and Rilla Cordle (looking on at right), are the chairman and assistant chairman, respectively, of the volunteers who are seeking "Fractured Follies" patrons.

## Final 2 showings of 'Fractured Follies' set tonight, tomorrow

Every year at this time the Parent-Teachers Association sponsors the "Fractured Follies" for the benefit of the Indian Wells Valley Campership Fund.

This year, another charity has been added — the IWV Leukemia Fund. Just one more reason why residents should continue to support this show as they have done in the past.

Tickets are priced at \$2.50 per person, and they are going fast. The ducats will be available at the Lecture Center door prior to performances, which are slated tonight and tomorrow night, beginning at 8 o'clock. That's provided seats still remain to be sold.

Traditionally, the Fractured Follies is a SRO (standing room only) production. Persons who want to see their friends and neighbors performing on-stage for charity should attempt to purchase tickets from the Gift Mart or Medical Arts Pharmacy in Ridgecrest, the Station Pharmacy, or from members of the cast.

Again this year, nearly 100 persons are involved in the staging of "Fractured Follies," ranging from director John Bell of the Cargill Producing Co., of New York City, to the "Ladies of the Mop." Many of them are teachers or members of the PTA. More of the participants are housewives and clerks, mothers and fathers, and just plain "folks."

The entire company will open the show with a tune from "Kiss Me Kate." Throughout the two-act production, the audience will see dance numbers, like



COME TO THE SOCK HOP — Members of the "Fractured Follies" dance chorus practice the "Sock Hop" number. The couples are (l.-r.) Jimmy Lee and Cheryl Thurm, Ev and Barbara Tunget, Pat McDonald and Diane Bernhardt, and Ken and Jan Austerman. This is just one of the many numbers that will be showcased during the "Follies" tonight and tomorrow night at the Burroughs High School Lecture Center.

—Photo by Ron Allen

## Man who launched first Navy guided missile to retire soon

Doug Fulks, a Fuze Department employee at the Naval Weapons Center who has the distinction of being the first Navy man to launch a guided missile, is currently counting the days until his retirement.

This historic launching took place in mid-1943 when Fulks, who was then a Navy enlisted man, was part of a Navy Bureau of Ordnance unit assigned to work on Project Pelican—a guided bomb system.

An Army B-17 bomber was borrowed for the test, which took place at Barnegat Bay in New Jersey. Everyone connected with Project Pelican was highly elated, Fulks recalled, when the guided bomb scored a bulls-eye on the target, which had been mounted on a land-locked barge.

Fulks grew up on a farm in northern Minnesota where everyone was involved in agricultural pursuits. However, his father also found building radios for himself and his neighbors a fascinating avocation, and

radios that he had acquired before joining the Navy gave Fulks a headstart over other enlisted men being trained as communications technicians. Consequently, while attending the Navy Communications School in San Francisco he had the opportunity to take a special exam and was one of just five men in his class to pass.

This opened the way for Fulks to attend Aviation Radio Material School—a training ground for airborne radar at Corpus Christi, Tex.—and from there he joined a group of candidates assigned in the spring of 1943 to the Navy's Bureau of Ordnance Experimental Unit in Washington, D.C.

Sent to Okinawa

Project Pelican was followed by work on the Bat, a radar homing missile which was one of the forerunners to present-day guided missiles. Fulks remained with BuOrd in Washington from Easter 1943 until early 1945 when he was sent to Okinawa with one of three aircraft squadrons equipped to deliver the Bat.

The Bat carried a 1,000 lb. general-purpose bomb, and was designed for use principally against enemy shipping. One of these WWII missiles is among the ordnance on display at NWC's Weapons Exhibits Center.

Six months after the end of WWII, Fulks, by then a chief electronics technician, was discharged from the Navy and entered North Dakota State University at Fargo, where he was awarded a BS degree in electrical engineering.

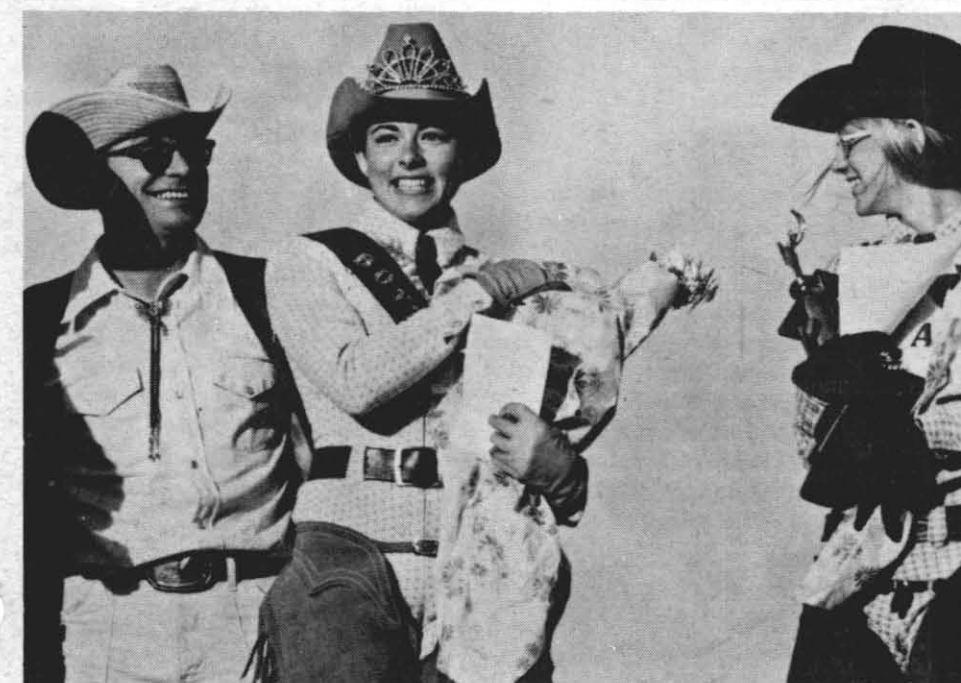
In October 1949, however, he was persuaded by Dr. Harold Skramstad, who he had known earlier while with BuOrd, to join a National Bureau of Standards Guided Missile Unit in Washington that was busy developing an air-launched guided missile called Petrel.

"It was a fabulous piece of equipment," Fulks remarked about the Petrel, which carried a torpedo as its payload. He continued working on the circuitry for the Petrel until its operational evaluation was completed.

Moved to California

A shift of the Bureau of Standards Guided Missile Unit from Washington to California in 1951 brought Fulks to the Naval Ordnance Laboratory at Corona. The laboratory remained a part of the Bureau of Standards until September 1953 when it came under the cognizance of the Bureau of Ordnance, since its principal work (including the continued development of the Petrel) was being done for the Navy.

Fulks' supervisor at that time was George Bastedo, who was head of the Components and Quality Assurance Branch in the NWC Fuze Department's Engineering Division,



1975 RODEO QUEEN — Ann Mettenburg (c.) was crowned queen of the 1975 Desert Empire Rodeo last Saturday while hundreds of persons in attendance at the annual event applauded the selection. Miss Mettenburg, a senior at Burroughs High School, was chosen on the basis of her horsemanship, personality and sale of tickets. She is the daughter of Mr. and Mrs. Clarence "Zip" Mettenburg. At right is Sue Porter, who placed second in the DEF Rodeo Queen contest. Bob Waters, president of the Desert Empire Fair board of directors and rodeo chairman, is at left.

—Photo by Ron Allen



FORMER WHITE HAT—Doug Fulks (2nd from left, front row) was an electronics technician 1st class in the Navy, when this photo was taken at the Floyd Bennett Field Naval Air Facility (just outside Brooklyn, N. Y.) in June 1943. At that time, Fulks, who has been head of the NWC Fuze Department's Project Branch II, in Development Division II, was serving with a Bureau of Ordnance experimental unit assigned to work on Project Pelican, a guided bomb homing system. Standing at left is Les Craycraft, a former NOL Corona employee who retired when the Fuze Department moved to China Lake.

at the time of his retirement this past April 18.

During 1955, Fulks, who had been involved in missile engineering work, left the missile engineering group to join what is now the Fuze Department and has been with this department for nearly 20 years. Along with others in this department, he came to China Lake in 1970.

While still at NOL Corona, he was a branch head in Development Division 1 and worked from 1961 to 1968 on fuzes for such weapon systems as the Talos, a long-range surface launched missile for use by cruiser class ships.

After the Talos effort, Fulks turned from fuzes for surface-launched to air-launched free fall weapons, one of the most important of which was the Slant Range Fuze program and, in 1974, he transferred from this project group (Code 3331) to Code 3342 to become the branch head for the Phoenix

fuze program. The Phoenix missile, a long-range stand-off weapon, is the principal armament for the Navy's new F-14 fighter aircraft.

Fulks owns some property (7½ acres) near Hemet, Calif., and one of his first retirement projects will be to build a home there, dig a well, and return once again to a rural type of living that he enjoyed as a youngster while growing up in Minnesota. Fulks wife, Lola, has been employed at China Lake since August 1972, and is now with the Word Processing Center—a part of the office of Finance and Management (Code 08).

The Doug Fulks family also includes a married son, Gary; his wife, and their two children who live in Newport News, Va., where Gary is a construction industry employee; and a married daughter, Valerie, whose husband is the vicar of St. Andrews Lutheran Church in Stockton, Calif.

## Specialist in family counseling, drug abuse joins staff of DCC

Pat Bailey, a graduate of the Texas A&M University at College Station, Tex., and Ball State University, Muncie, Ind., is the newest staff member of the Desert Counseling Center.

Bailey, whose family resides in Trona, joined the DCC a month ago and specializes in drug abuse and family counseling.

He was born in Galveston, Tex., and was graduated from high school at the San Marcos Academy, San Marcos, Tex. He then earned his bachelor's degree at Texas A&M before entering the U.S. Army.

Bailey served as an artillery officer for the first two years of his enlistment then spent the final two years working with the Army's race relations programs.

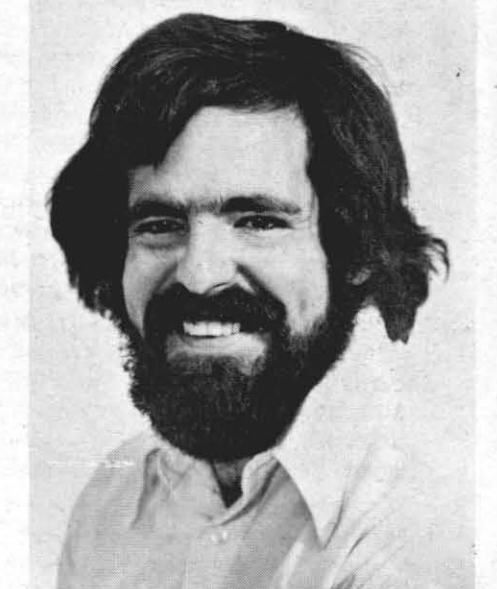
After his honorable discharge he enrolled at Ball State where he earned a master's degree in psychology.

His future plans call for completing his doctoral studies.

While stationed in Germany with the Army, Bailey met his wife, Kathy, who was working there as an Army nurse. She is now employed as a nurse at the Ridgecrest Community Hospital. The couple is ex-

pecting their first child in September.

The Baileys enjoy backpacking, bicycling and both are shutterbugs. In addition, Bailey indulges in skin diving and water skiing.



Pat Bailey





**MULTIPLE AWARD PRESENTATION**—Dr. Russell Reed (at right), head of the Propulsion Development Department's Applied Research and Processing Division, recently presented more than a dozen patent awards or applications for patent awards to employees in his division. Six of the eight recipients present for the occasion are (from left) Martin H. Kaufman, a supervisory research chemist in Code 4542; Paul L. O'Neill, a chemist in Code 4547; Edward M. Roy, a physical science technician, in Code 4542; Ted Herling, an engineering technician in Code 4544; Barbara Stott, a chemist in Code 4547, and Dr. Bernard Wasserman, a research chemist in Code 4542. Two patent award winners, Roger L. Miller, a chemical engineer in Code 4547, and Reba C. Ward, a physical science technician in Code 4541, were unable to be present for the ceremony. Dr. Wasserman received four Superior Achievement Awards for patent applications. Each of the other award recipients garnered a single award each. —Photo by Maurice Dias

## Librarian's unique overdue notices get fast results

"If you don't return that report, I'm going to stab you to death with a dull pencil."

The above statement accompanied an overdue notice from the Technical Library's Reference and Circulation Branch and carried at the bottom a felt-pen drawing of a little girl, known as "Little Sitting Book." The NWC employee who received the notice not only returned the two reports in question, but also returned two other reports in his possession for some time. He, too, drew a picture of a little girl and asked that Little Sitting Book call off the blunt pencil contract.

Paulette Murray, a library technician who is in charge of the reports section, is Little Sitting Book. When she took over the section some 18 months ago, overdue reports were a huge headache. They still are, but an enormous improvement has been shown by customers in recent months, thanks mainly to Mrs. Murray's efforts to brighten things up.

### Many Notices Sent Out

"I send out as many as 800 overdue notices in a month, and that's a lot of little girls dancing on a page, but I do it because I'm getting results," she pointed out. Customers are given close to a month to return a report before Mrs. Murray takes action.

"The policy used to be that anything checked out of the Technical Library could be kept as long as needed, provided it wasn't on reserve," Mrs. Murray said. "Now, due to short funds, we have to have the reports back, and getting them isn't easy," she added.

What Mrs. Murray does in jest has a very serious purpose. "It is vitally important that the reports are available in the Technical Library when they are needed by other people on the Center," said Snowden LaFon, head of the Technical Information Department's Technical Library Division. "Too often, these reports are kept for such a length of time that they become mislaid or lost. Then, in the case of classified reports, a security problem is created," he added.

Mrs. Murray's solution is working better than anything else tried by the library. "The response is excellent," said LaFon.

She often threatens drastic action. One scientist received a curt notice that she was "going to . . . break his arm" if he didn't

return the reports in his possession. They were back in the library the next day.

One of her favorite customers, Robert Dillinger of Code 4573, is also a very talented artist. Mrs. Murray sent him an overdue notice inscribed with a desert scene that included a mound and cross. She wrote, "I plan to bury you south of Randsburg if you don't return soon."

### Counter-threat Made

In return, Dillinger drew a picture of a gangster holding a sub-machinegun and referred to his "Uncle John" in the drawing who would never tolerate this kind of treatment. However, he returned the reports.

Another overdue customer drew a picture of a little boy kissing Mrs. Murray's little girl, which he sent along with the overdue reports.

Holidays are a special time for Mrs. Murray. For Christmas she sent a "want list" to each overdue subscriber in Code 608, who are her more prolific customers. Thom Boggs and his wife sat up half the night making her a bread dough pink elephant as Mrs. Murray had requested in her Christmas list. In addition, the staff of Code 608 sent her a recipe for elephant stew, that was guaranteed to feed 3,500 people.

### Jelly Beans Sent at Easter

Sometimes she draws trees and flowers, or anything that pops into her mind. For Easter she enclosed jelly beans in the guard mail package. For Code 608, she loaded up a huge Easter basket with candy and goodies and left it at the guard desk in Michelson Laboratory. The employees had to carry it through the hallway to their rooms and she got her reports back. They, in turn, hung a huge Easter bunny above the guard desk for her, inscribed "Paulette, Reserves Waiting."

Some of the excuses she has received from customers range from ridiculous to fantastic. One customer told her a Great Dane had eaten the reports. "Naturally, I believed him," Mrs. Murray said. Another brought in some reports in terrible condition and said they had been in a motorcycle accident. She responded that the next time this happened, the customer had better be in the same shape as the reports.

Customers who complain that the reports

## Varied changes in uniforms for Navy personnel OKayed by CNO

A variety of changes to the male officer and enlisted uniforms have been approved by the Chief of Naval Operations.

The changes are the result of an extensive study aimed at introducing greater uniformity, reducing the number of uniforms and accessories currently required, reducing the cost to the individual, and providing enlisted men with a smart, durable working uniform that will be easy to maintain and stow aboard ship yet be convenient for working.

The coat and tie style service dress blue uniform is designated as the basic all year round uniform for officers and enlisted men. A short sleeve convertible collar shirt will replace the present long sleeve dress and tropical white shirts, although wearing the long sleeve white shirt with service dress blue will remain optional.

The winter working blue uniform will be required for all officers and enlisted men. The long sleeve blue shirt is to be worn either with or without tie, with collar devices for officers and CPOs and rating badges for enlisted men.

Another change deletes tropical khaki long as a dress uniform for officers and CPOs as of July 1, 1975, after which time the uniform may be worn only as a working uniform. Both this and the winter working blue may be worn only with breast insignia or badges, ribbons are not authorized. Black shoes may now be worn with working khaki, and brown shoes will not be authorized after July 1, 1976.

In other changes, the CNO approved

retention of the full dress white uniform for officers, for wear at ceremonies when enlisted men will wear tropical white long, but service dress white for officers will no longer be prescribed.

For all enlisted personnel, the summer blue uniform has been approved, consisting of the tropical white shirt, ribbons and insignia, combination cap, service dress blue trousers, and black shoes. A flare-legged dungaree trouser and chambray shirt combination will be introduced to replace the present working blue uniforms for enlisted men, and a new lightweight blue overall has been approved to be phased in as organizational clothing.

The changes will be incorporated in the next change to the uniform regulations. A review of women officers and enlisted uniforms is being conducted, and the results are expected by June.

## Hobby Show slated Sat. at Youth Gym

The annual Hobby Show, sponsored by the Ridgecrest Kiwanis Club and NWC's Youth Center, will be held tomorrow at the youth gymnasium.

On exhibit will be coin and stamp collections; handmade clothing; pets and living things, such as amphibians and reptiles; models; paintings and drawings, and any hobby that is of interest to others.

The show will be open to the public from noon until 3 p.m. There is no admission charge.

Denver in Colorado for a year, and has also attended Fresno State College. In addition, she studied art while she was living in Denver.

Her husband is Jack Murray, who works in the Personnel Department. The couple enjoys collecting antiques, hiking, backpacking and jogging. Mrs. Murray, who is also involved in golden silversmithing as a hobby, likes to make jewelry and hook rugs.

She thoroughly enjoys her job and doesn't mind the many hours of innovative work she applies to getting overdue reports returned. "You can't lick success and it's working."



**"LITTLE SITTING BOOK"**—Paulette Murray, a library technician who works in the reports section of the Technical Library, finishes another drawing at the bottom of a report overdue notice. She inaugurated this practice a few months ago as a desperate means to get users to return classified and unclassified reports that were overdue and vitally needed by other customers. The good will that she has created through her use of drawings, presents, bribes, and other novel means has been highly successful in getting these reports back into the library.

## Significant changes made in instruction governing vehicle regulations on Center

A number of significant changes have been made in the Naval Weapons Center Instruction on vehicle regulations that has been distributed Centerwide.

The revisions are the result of combining two former NWC Instructions into one, and certain changes made in the traffic point system by OPNAV Instruction 11200.5B. Other matters such as automatic consent for chemical tests of motorists stopped on suspicion of driving while under the influence of alcohol or drugs and new traffic court procedures also are covered.

Traffic Court sessions are held every Wednesday, starting at 5 p.m., in the Community Center's Sidewinder Rm. Anyone receiving a citation must appear at the next traffic court session (indicated on the traffic citation) unless specifically excused by the Vehicle Control Officer, Code 84102.

Those cited who intend to contest the alleged traffic law infraction are required to make this information known by contacting the Vehicle Control Officer at least three days prior to the date for their appearance in court.

On the other hand, if there is no intention by the individual to contest the citation, he or she may contact the Vehicle Control Officer in advance of the Traffic Court session for an appropriate disposition of the matter.

Violations of NWC motor vehicle regulations may result in either the suspension or revocation of an individual's on-Center driving privileges. Suspension involves the removal of the privilege to drive a privately-owned vehicle on the Center for a period of up to six months.

### Registration Privilege Denied

Revocation, however, involves not only the removal of a person's on-Center driving privilege, but also revokes his or her privilege to register a privately-owned motor vehicle at NWC. After the expiration of a specified period of time, those whose driving privileges have been revoked may re-apply for permission to re-register their vehicle. Exceptions in the case of severe family hardships can be made by the Traffic Court's presiding officer.

The NWC Vehicle Regulations Instruction also has this to say about those cited or lawfully apprehended for any offense allegedly committed when driving a motor vehicle on the Center while under the influence of intoxicating liquor or drugs. "Anyone granted the privilege of driving on the Center shall be deemed to have given his consent to a chemical test of his blood, breath, or urine for the purpose of determining the alcoholic content of his blood."

As an added safety measure, all motorcyclists must drive with their

headlights on at all times while riding on Center streets in order to increase their visibility to motorists. In addition, both motorcyclists and bicycle riders are required to keep their headlights lit at night while approaching the access gates to the Center or any fixed guard posts. If such vehicles are equipped with low beam headlights, they should be used near to a guard post.

In contrast to the foregoing, all other vehicle operators are required to turn off the headlights on their machine at the entrances to the Center or as they approach a guard post.

Newly added to the NWC Instruction on vehicle regulations is the requirement that where bicycle lanes are a part of the street, the cyclist must ride in the lane at the right side of the road. In those places where bike lanes are separate from the street, travel in either direction is permitted but riders must always keep to right side of such lanes.

### Parking Space Assignments

Assignment of parking spaces will be done at the discretion of Commanding Officers and department heads who have cognizance of the area, with the understanding that reserved parking spaces will be held to a minimum and those provided for visitors will be adequate for the average building requirements.

The traffic point system is an impartial and uniform administrative device for evaluating the use of a privilege granted to personnel under the jurisdiction of the NWC Commander. It applies to:

Military and civilian personnel operating government vehicles on or off the Center; to military personnel operating privately-owned vehicles on or off the Center; and to dependents, civilian employees, and to all other individuals subject to the NWC Vehicle Regulation Instruction operating privately owned vehicles on the Center.

The Traffic Point Guide calls for a mandatory one-year revocation of an individual's driving privilege on Center upon conviction for such things as: manslaughter (or negligent homicide by vehicle); driving a motor vehicle while under the influence of alcohol or narcotics; or fleeing the scene of an accident involving death or personal injury without rendering aid or information.

Additionally, a person's driving privilege's on Center will automatically be revoked for six months for refusing to submit to a chemical test when apprehended on suspicion of driving a motor vehicle while under the influence of either intoxicating liquor or drugs.

Suspension of driving privileges for a period of six months or less, or revocation for a period not to exceed one year is discretionary if a motorist has:

(1) Committed an offense in another state

### VIOLATION

### POINTS

### ASSESSABLE

Reckless driving (willful and wanton disregard for the safety of persons or property) . . . . .	6
Owner knowingly and willfully permitting another to operate his motor vehicle when physically impaired . . . . .	6
Fleeing the scene (hit & run) — property damage . . . . .	6
Driving vehicle impaired (consumption of alcohol — more than .05 per cent and less than .10 per cent . . . . .	6
Speed contests . . . . .	6
Exceeded stated speed limit or speed too fast for conditions:	
1 to 10 mph over posted speed limit . . . . .	3
11 to 15 mph over posted speed limit . . . . .	4
Over 15 but not more than 20 mph over posted speed limit . . . . .	5
Over 20 miles per hour above posted speed limit . . . . .	6
Speed too slow for traffic conditions . . . . .	3
Following too close . . . . .	4
Failure to yield right of way to emergency vehicle . . . . .	4
Failure to stop for school bus or school crossing signals . . . . .	4
Failure to obey traffic signals, traffic instructions of an enforcement officer or traffic warden, or any official regulating a traffic device requiring a mandatory stop, yield right of way, denial of entry, or required direction of traffic . . . . .	4
Improper passing . . . . .	4
Failure to yield (no official sign involved) . . . . .	4
Improper turning movements (no official sign involved) . . . . .	3
Other moving violations (involving driver behavior only) . . . . .	3
Operating an unsafe vehicle . . . . .	2
Driver involved in accident is deemed responsible (used only as additive to points assessed for specific offense) . . . . .	1

The point system will not be used for non-moving violations. Rather, suspension of driving privileges for a period of at least one month may be imposed on individuals who have been cited on at least three occasions for non-moving violations within a successive 6-month period.

which if committed on Center would be grounds for suspension or revocation.

(2) Permitted the unlawful or fraudulent use of an official driver's license.

(3) Been convicted of fleeing or attempting to elude a police officer, or been convicted of racing on the highway.

## Thefts on increase at Navy Exchanges

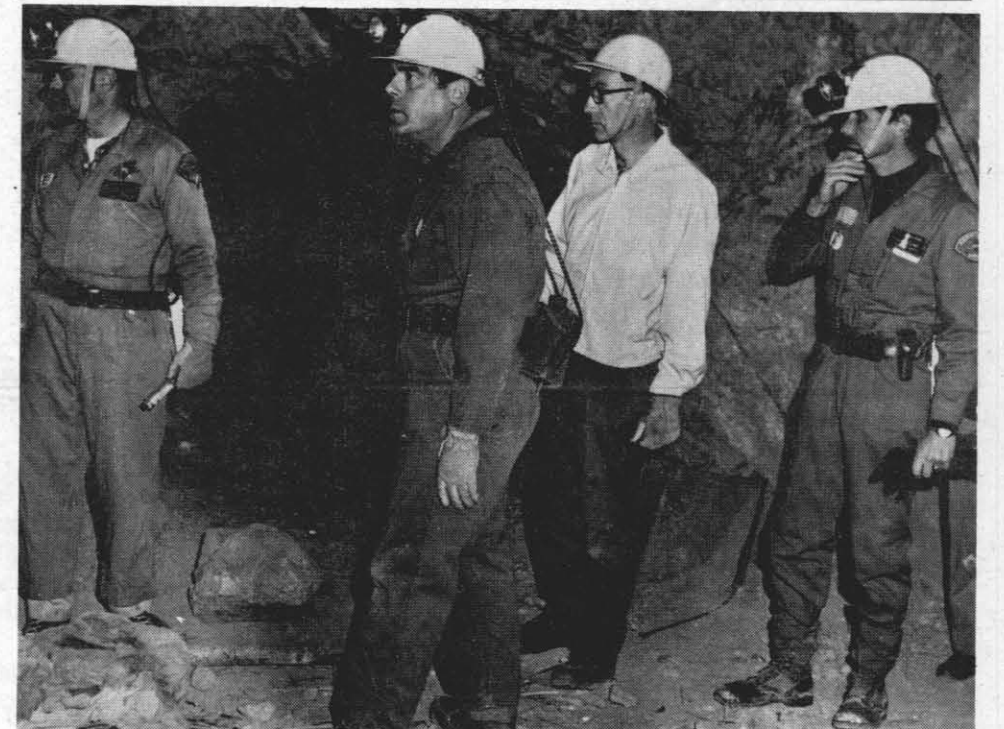
There has been a recent increase in the number of shoplifting apprehensions at Navy Exchanges. This increase reflects both a rise in the number of patrons involved in shoplifting and recent improvements in detection systems.

An individual subject to the Universal Code of the Military Justice (UCMJ) involved in shoplifting at an Exchange or Commissary may be punished, either non-judicially or through the court-martial process, for violating UCMJ provisions.

Individuals not subject to the UCMJ involved in shoplifting at a Navy Exchange or Commissary may have their privileges suspended and may have their case referred to trial in the Federal judicial system.



**INVENTOR CITED** — Robert G. Corzine, head of the Electronic Warfare Department's RF Development Division, was recently presented a Superior Achievement Award for a patent entitled "Multilayer Spirals." Corzine (at right) is shown being congratulated by D. J. Russell, his department head. The inventor has worked at NWC since February 1958 and has been in the department since 1970. Previously, he was employed by the Center's Weapons Development Department, which is now known as the Aircraft Systems Department.



**YELLOW ASTER MINE VISITED** — Rear Admiral R. G. Freeman III, NWC Commander, and Dr. G. L. Hollingsworth, NWC Technical Director, were accompanied recently by 17 members of the IWW Ground Search and Rescue Team on an inspection of the old Yellow Aster Mine in Randsburg. RADM. Freeman's wife, Dottie, and Mrs. Jean Hollingsworth, wife of the Technical Director, joined their husbands on the outing and went underground with them. In top photo, the Skipper (2nd from left) is followed by Dr. Hollingsworth as the two NWC officials approach the entrance to one of the main tunnels. Shown with them are Frank Peck (at left) and Fred Camphausen, Ground Search and Rescue Team members. In the other photo, RADM. Freeman is seen being lowered into a vertical shaft using a hoist developed for mine rescue work by the IWW Ground Search and Rescue Team. Discovery of gold at the site of the Yellow Aster mine in 1895 led to development of the boom towns of Randsburg and Johannesburg. During 47 years of the mine's operation, \$16 million profit was realized by its operators.





# This is time of year to visit petroglyph sites on NWC ranges

Editor's note: This article was prepared by Elizabeth Babcock, with the assistance of James W. Baird, J. Kenneth Pringle and Al Christman. The photograph was taken by William P. Feltkether; the map prepared by Johnnie Lopez, and the drawings by Tom Boyd.)

Dry, arid, barren—these are words that describe our desert surroundings. Not words often associated with human populations. Yet, difficult as it is to imagine, man has lived in Indian Wells Valley for 6,000 or more years.

A one-day trip to the Naval Weapons Center's north ranges will turn up abundant evidence of a civilization that lived on the desert and was sustained by it. In Renegade and Petroglyph Canyons, thousands of petroglyphs provide dramatic evidence of a previous civilization. Here, scratched or pecked on miles of basaltic rock, are vigorous depictions of hunting figures, atlatis (spear-throwers), stylized designs, and most predominantly, bighorn sheep.

Since they are located on-center, these fine examples of prehistoric art are protected by controlled access to the area. Yet anyone wishing to visit the petroglyphs may do so by making appropriate arrangements.

## How To Visit Petroglyphs

There are dozens of petroglyph sites on the Naval Weapons Center ranges. However, Petroglyph and Renegade Canyons (often called Big and Little Petroglyph Canyons) contain by far the largest displays of rock art. More than 11,000 petroglyphs have been found at these two sites. In May 1965, these sites were designated a Registered Historical Landmark.

The easiest and most informative way to visit the petroglyphs is by joining a Maturango Museum tour. The museum often offers public tours to Renegade Canyon (the Little Petroglyph area), and arranges special four-wheel tours to Petroglyph Canyon. Museum tours occur about every month in the spring and the fall and are conducted by volunteer guides who know a lot about the petroglyphs and the natural history of the area. For information on these tours, call the museum, 939-2368, between the hours of 2 and 5 p.m. on Saturdays and Sundays, or between 10 a.m.



**NUMEROUS DESIGNS**—A visitor to Little Petroglyph Canyon admires a few of the thousands of designs that are scratched in the rock at this Registered Historical Landmark.

and noon and 3 to 5 p.m. on weekdays.

The petroglyphs may also be visited by private individuals. Since they are on the Naval Weapons Center's ranges,

The Maturango Museum plans a number of petroglyph tours, both public and private, during spring and fall months. The last public tour of this season will occur on Saturday, May 10. Persons interested in participating in this tour of the Little Petroglyph area may call the museum, NWC ext. 2368, for further information.

In addition, private tours have been set up by the museum during May and June for the following organizations: San Diego Sierra Club, Kern County, Tulare Archaeological Society, and Rio Hondo College.

arrangements for public access must be made. The Security Department's Community Liaison Assistant, phone 939-3481, should be called during the week before the weekend date on which you wish to visit the petroglyphs.

On the morning of your petroglyph outing, you should go to the China Lake Police

Station on Halsey Ave. with the following information: the makes and license numbers of the automobiles (at least two motor vehicles must go on the trip), the names of the drivers, and the number of passengers. A Naval Weapons Center employee must sponsor and accompany your group.

If you are planning to take a large crowd of people to the petroglyphs (10 vehicles or more), you should call the Community Liaison Assistant at least 10 days before your planned outing, so that she can make the necessary special arrangements. If you decide to visit the petroglyphs with a Maturango Museum tour, the museum will handle all arrangements for Center access.

## What To Take With You

Since this will be at least an 84-mile round trip and since there are no gas stations or restaurants where you are going, you will want to make sure that all vehicles going on the trip are reliable, in good repair, and with full gas tanks. You will also want to take plenty of food and water.

The areas you will be visiting, since they are about 3,000 feet higher in elevation than Ridgecrest and China Lake, are always at least 10 degrees cooler. Consequently, you will want to take warm clothing in the winter, and jackets in the spring and fall. It is a good idea to protect yourself from the sun in the summer with suntan lotion and some type of head covering.

## Location of Petroglyphs

With use of the accompanying map, you should have no trouble locating the Little Petroglyph area, the major petroglyph site that is most accessible by standard automobile. The mileages given here are not strictly accurate, but they will give you an indication of distances.

The museum tours are planned primarily in the spring and the fall, the most pleasant times to be out-of-doors. However, the petroglyphs may be visited during all months of the year.

Remember that this area may be visited on weekends and holidays only. During the week, test operations going on in the vicinity would make this a dangerous area for casual visitors.

Since the range areas are fenced off, the only entry point to roads that lead to the petroglyphs is via the gate on N. Lauritsen Rd., where the guard on duty will check each party through.

From the guard shack, it is just a short distance to No. Knox Rd. A right turn there is followed just one-tenth of a mile further by another right turn at a road that goes past the China Lake golf course and skirts the edge of "B" Mountain.

Approximately 3.7 miles from the Knox Rd. turn-off motorists must be on the lookout for another Y-shaped intersection (labeled "dangerous intersection"), where a left turn must be made. It is then necessary to keep to the left while passing still another intersection before crossing a section of railroad track and then taking a

right turn onto the G-2 Tower Rd.

The G-2 Tower Rd. which is paved for a portion of the way before it becomes a dirt track, is the route to follow through the range area. Driving along it for a distance of 11.7 miles will bring visitors to Mountain Springs Canyon Road, where a right turn must be made.

A bit further along on Mountain Springs Canyon Road there is a locked gate that can be opened by a key obtained from the China Lake police station.

Mountain Springs Canyon is the route of the old Brown to Darwin mining road. Driving along it, those on their way to the petroglyphs will probably see a number of burros that are descendants of the pack animals which were brought to this area by prospectors seeking gold, silver and valuable mineral resources of the desert.

## Old Buildings Still Remain

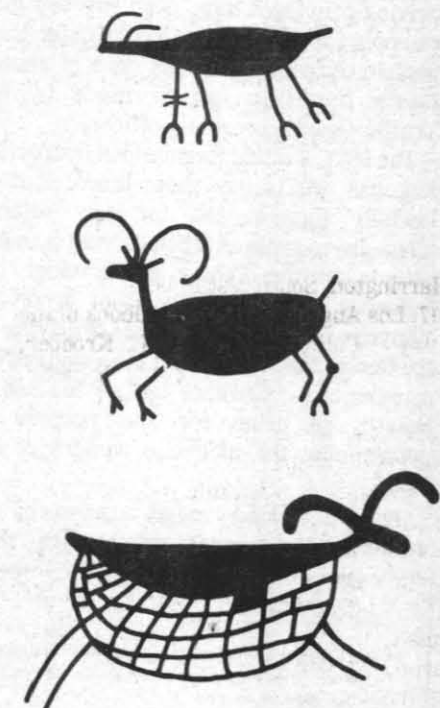
About 5 miles up Mountain Spring Canyon Road, a short road to the left leads to several buildings remaining from former gold-mining activity at the nearby Mammoth Mine.

The route to the petroglyphs follows Mountain Springs Road for a distance of 7.8 miles to the Bircham Springs intersection, where another left turn is made toward Coles Flat. This section of dirt road takes motorists past a virtual forest of Joshua trees, where there is a picnic area located near an old prospector's camp.

It's another 7.3 miles from the Bircham Springs intersection to a junction labeled "Divide." Here again a left turn is made and then, staying on the main track, it's just another 6.4 miles to the Little Petroglyph area parking lot and picnic area.

Other interesting trips in this vicinity may be made to El Conejo Mine, to Junction Ranch, and to the Big Petroglyph area. Don't attempt the Big Petroglyph trip, however, unless you have four-wheel-drive vehicles.

When you look at the petroglyphs, laboriously pecked into the rock, your first question probably will be something like,



**MAJOR THEME**—The bighorn sheep was a favorite theme for the petroglyph-maker. With ever more stylized and sophisticated depictions, early man probably hoped for success in the hunt as he scratched these symbols on the basaltic rocks of the Naval Weapons Center's north ranges. The examples shown here depict, (top to bottom) early, transitional, and late styles.

"Why were these designs made?"

Nobody knows with certainty why the petroglyphs were made. The best guess is that there was magical significance, connected with the hunt, attached to these rock carvings. Since the most predominant figure is the bighorn sheep, relatively rare and difficult to hunt, it is speculated that many of the designs were made during

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# Synchrotron radiation work will benefit NWC...

(Continued from Page 1)

A team of NWC scientists, headed by Dr. Vic Rehn, head of the Physics Division's Electron Structure of Solids Branch, developed and installed the instrumentation in the vacuum ultraviolet beam line and the grazing-incidence mirrors in the soft X-ray beam line. Others on this team were Dr. Don Baer, Dr. Dave Kyser, Dr. Jim Stanford and Vern Jones.

"We first became interested in working with synchrotron radiation in late 1972," Dr. Rehn said. "In February 1973 we received initial funding from the Office of Naval Research, and we were able to hire Don Baer as our research associate at Stanford in April 1973."

Dr. Baer transferred to China Lake in December 1973 and, since that time, has been working with Dr. Terry Donovan, an employee of Code 60's Physical Optics Branch, on photoemission spectroscopy experiments being performed with the use of the vacuum ultraviolet beam line. NWC research at SSRP on optical scattering is under the direction of Dr. Stanford, while Dr. Rehn and Dr. Kyser are in charge of electroreflectance studies.

## Typical Experiments

In Dr. Stanford's ongoing experiments, aluminum, gold, and platinum samples are being subjected to radiation from the vacuum ultraviolet beam line and optical scattering, specular reflectance, and transmittance of these samples are being measured with a unique, ultrahigh vacuum reflectometer. Electron states and bands, both near the surface and deep within the volume of insulators and wide band-gap semiconductors, are being studied in the electroreflectance experiments.

Results of all these experiments will improve understanding of the optical properties and electronic structures of crystalline and noncrystalline solids and of their surfaces and interfaces.

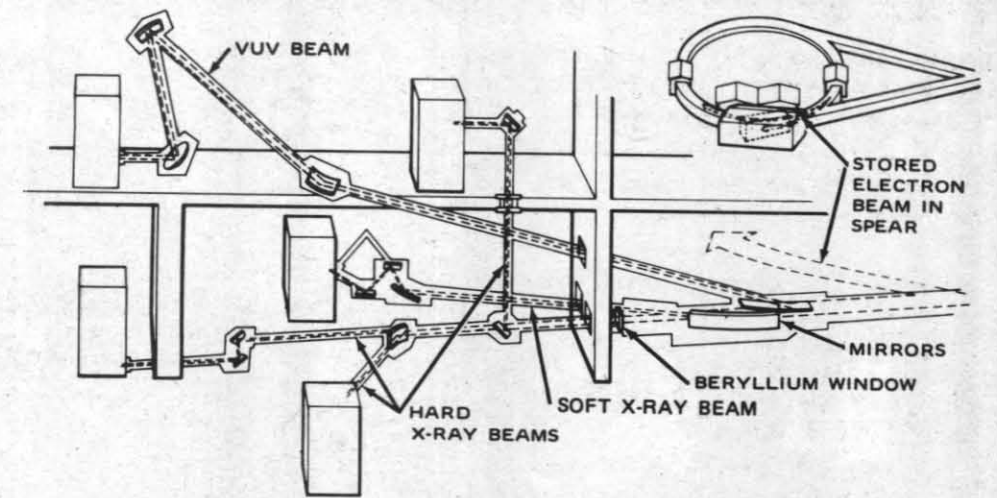
In one practical benefit of these studies, researchers expect to conquer problems connected with development of reflecting optics for a vacuum ultraviolet laser. In turn, such a laser could be used in connection with the vacuum ultraviolet beam line as an experimental tool for even more sophisticated optical experiments.

## Remarkable Properties Utilized

The SSRP beam lines are unique and valuable research tools for spectroscopists — scientists who study the interactions between matter and electromagnetic radiation. "We aren't particularly interested in SPEAR's radiation in the radio, infrared, and visible ranges," Dr. Rehn said. "The remarkable thing about SPEAR is its synchrotron radiation in the ultraviolet and X-ray ranges."

"We take advantage of the highly stable condition of SPEAR synchrotron radiation to achieve controlled experimental results," Dr. Stanford added. He listed a number of significant ways in which this radiation is stable. While conventional sources for ultraviolet and X-ray radiation, sources used commonly in the laboratory, emit with high intensity only at isolated wavelengths, SPEAR emits with great intensity at all wavelengths.

While conventional sources are largely unpolarized, that is, not emitting waves in a particular pattern, SPEAR emits highly polarized radiation. SPEAR radiation is also pulsed in very rapid, narrow (one-half a billionth of a second) pulses, more narrow



**STANFORD SYNCHROTRON RADIATION PROJECT LAYOUT**—The five beam lines in this project are diagrammatically shown. In the vacuum ultraviolet and soft X-ray beam lines, radiation passes through an ultrahigh vacuum pipe and is collected and focused by a series of mirrors. Within the vacuum ultraviolet or soft X-ray wavelength ranges, a grating monochromator selects light of any given wavelength, which is then incident on experimental samples mounted in an ultrahigh vacuum sample chamber.

and more frequent than conventional source pulses. Radiation from SPEAR is as well collimated, beamed in as straight, parallel rays, as most lasers. And, since this radiation is emitted inside a clean, vacuum enclosure, experimental surfaces may easily be kept clean.

## Specialized Instrumentation Developed

The intense radiation from SPEAR is channeled through an ultrahigh vacuum pipe. Three mirrors, located at intervals along the vacuum ultraviolet beam line, collect and focus radiation at the entrance slit of a monochromator, a device (such as a prism) that separates the radiation into narrow portions of the spectrum. Experimental samples are subjected to polarized monochromatic radiation through the exit slit of the monochromator.

Specialized mirrors were required for SSRP beam lines. Ordinary glass or quartz mirrors could not withstand the high X-ray intensities from SPEAR. Since microscopic irregularities severely scatter and absorb ultraviolet radiation, the mirror surfaces had to be "supersmooth." And to allow maximum radiation to reach the

monochromator, it was necessary to minimize the number and maximize the reflectance of radiation-absorbing reflecting surfaces.

## Two Special Mirrors Made

To accomplish this, NWC employees fabricated two special mirrors, using electron-beam deposition of high-reflectance platinum in ultrahigh vacuum on highly polished copper surfaces. These two beam-splitter mirrors, made possible through recent advances in the art of polishing metals, have proved to be satisfactory in over 1,000 hours of operation to date.

Diffraction gratings with special heavy-metal coatings were also fabricated in order to disperse ultraviolet radiation efficiently into its wavelength components. All portions of the SSRP system had to be compatible with an acid-cleaned vacuum environment.

Experimental measurements during several recent beam runs have confirmed the design and installation of the vacuum ultraviolet beam line. With experiments fully under way at SSRP since November 1974, the scientific payoff for this unique venture has already begun.



**HIGH SCHOOL DIPLOMAS PRESENTED**—Roxanne Sturgeon, director of the Pre-Retirement Education Program (PREP) offered here under the auspices of LaVerne College, this week presented high school diplomas to four Naval Air Facility enlisted men. The recipients are (from left) ASE2 Morris G. Wallace, AMH2 Roy S. King, AA Terry Lee Cuniff and AO1 James A. Waits. Carol Sherman is the educational program's resident instructor. The four men above attended evening classes from last September through February in order to complete requirements for their high school diplomas.

—Photo by Ron Allen

# Band concert set to raise funds for Hawaiian trip

The Burroughs High School Stage Band, one of the most successful musical groups in the school's history in terms of awards and honors won, will present its final public performance of the year at 8:30 p.m. on May 21 in the Center Theater.

This concert will feature "Sounds of the Big Band Era," and will include selections from the nostalgic 1940s and '50s, as well as current hits. Mike Garrett is the conductor of the band.

Admission is \$1.50 for all. The money raised during this concert will be used to help meet the expenses of a concert tour to Hawaii this summer. Already, many of the community's civic and

business organizations have allocated funds for this tour. The Ridgecrest City Council recently contributed \$1,000 and the Sierra Sands Unified School District's board of directors voted to allocate an additional \$2,000 for the Hawaiian tour.

In addition, the Ridgecrest Exchange Club has announced plans to raise another \$2,000 by offering a pair of round-trip air fare tickets to Hawaii that will be presented to one of those who donates money for the Stage Band's proposed concert tour.

Arrangements for obtaining the air travel tickets have been made with the Hucek Travel Service of Ridgecrest.