

FORMER SHIPMATES - Marty Shelton (seated at right), who was frocked to the rank of captain in the Naval Reserve during a ceremony performed last Friday by Capt. William B. Haff, is a former shipmate of the NWC Commander. Others present for the ceremony were Shelton's wife, Mary, and Griff Davies, one of Shelton's co-workers, who is a master chief photographer's mate in the Naval -Photo by John Dunker

Shelton frocked as captain in Naval Reserve Intelligence unit

Capt. William B. Haff, NWC Commander, officiated last Friday at a frocking ceremony during which Marty Shelton, USNR-R. Executive Officer of a Naval Reserve unit headquartered at the Armed Forces Reserve Center in Los Alamitos. Calif., was frocked as captain.

Frocking is a process whereby an officer or chief receives all the rights and privileges of the next highest rank without receiving a raise in pay. Frocking is implemented when the officer has been selected for promotion, but has to wait for a promotion date.

Shelton, who heads the Film Projects Branch in the NWC Technical Information Department's Photographic Division, has logged more than 30 years in the Naval Reserve, including both active and inactive duty. He joined the Navy as a seaman recruit in 1948.

Shelton had 2 years of service as an enlisted man and 51/2 years as a com- and 26. missioned officer while on active duty, and was a shipmate of the NWC Commander in Rm. 3 at Las Flores Elementary School in during a tour of duty on the aircraft carrier USS Ranger (1967-68). At that time, Capt. Haff was the Commanding Officer of an F-4 aircraft squadron, and Shelton was the air intelligence officer in charge of selecting targets for attack by the USS Ranger's carrier aircraft.

As an officer in the Naval Reserve, low-budget, 1930 B grade detective film, in Shelton has continued his involvement in intelligence work by serving with his present unit, Fleet Intelligence Reserve

Support Team Pacific 1019. Present for Shelton's frocking ceremony

on Monday.

as captain were his wife, Mary, and a fellow worker, Griff Davies, who is the senior cinematographer in TID's Film Projects

Davies, a long-time friend of Shelton's also is a Naval Reservist. His rating is master chief photographer's mate, and PHCM Davis is serving with the Reserve Pacific Fleet Audio Visual Command. Five years ago, this unit - then called the Reserve Combat Camera Group — was led by Shelton as Commanding Officer.

Tryouts for CLOTA'S 'Bullshot Crummond slated Feb. 25, 26

Tryouts for roles in the Community Light Opera and Theater Association's production, "Bullshot Crummond," will be held at 7 p.m. on Wednesday and Thursday, Feb. 25

Wednesday evening's tryouts will be held Ridgecrest, and Thursday evening's tryouts will be held in the Las Flores School auditorium.

A script of the play can be seen at the Ridgecrest Library, 131 E. Las Flores St., in Ridgecrest, until Feb. 25.

Bullshot Crummond" is a parody of a which British heros always triumphed over

Director for this first CLOTA production of the 1981 season is Rus Stedman, assisted by Cheri Craddock.

Rec. facilities open on holiday

facilities at the Naval Weapons Center during the Washington's Birthday holiday

Youth Center-Skating Rink.....5 to 7 p.m.

Navy Exchange Mini-Mart 10 a.m. to 7 p.m.

Facilities not listed above will be closed all day Monday.

Rehearsals begin on college production of 'Light Up Sky'

The cast has been chosen and rehearsals are now underway for Cerro Coso Community College Drama 27's spring production of "Light Up the Sky," written by popular playwright Moss Hart.

Betty Jo Luedecke, who has appeared in more than 20 plays and directed both adult and children's theater productions, is the instructor/director of this Drama 27 theatre-laboratory class that meets on Tuesdays and Thursdays from 1:30 to 4:30

College students and the roles they will portray in this comedy about show business people and an opening night performance off Broadway are:

Tim Outcult, as Carleton, an overly emotional theatrical type, who exaggerates everything he does.

Laurel Wood, as Frances, the flamboyant and boisterous wife of the play's producer. Mary Marik, as Gwyn, a knowlegeable performer who knows show business.

Patricia Morgan, as Stella, a tough, stage mother type, and Christine McClusky, as Irene. Stella's daughter who is the star of

Sandy Weber, as Paulette, the shy, awkward playwright who wrote the play and is still wondering what happened. Robert Barbere, as Sidney, a shady

figure who values money first and foremost. Susan Sydney, as Miss Lowell, a secretary, who will double in brass as the play's costume designer.

Johnny Jones, as William, an over-eager Shriner who is looking for a little excitement by rubbing elbows with members of the cast of an off-Broadway production while he is in town to attend a convention.

Most members of the cast of "Light Up the Sky" have been involved previously in Theatre Association.

The show's technical director and set designer is Kim Lorang, while Dee Career Crisis" will be offered on Wed-

The Drama 27 production of "Light Up the Frank Grob. Sky" will be presented on the weekends of May 1-2, and 8-9.



Commissioned Officers' Mess Mess will hold another Membership Night have made reservations.

Musical entertainment, which is scheduled from 8 p.m. to midnight, will feature "Baaska and Scavelli." with their renditions of oldies and goodies.

There will also be a buffet dinner featuring Cornish game hen that will be served from 6 to 9 o'clock.

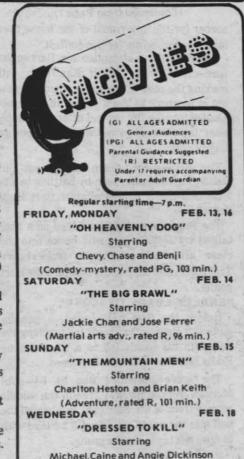
Next Thursday, Feb. 19, the COM chef will prepare a menu of Greek food. The specialties of the evening will be Keftedes, Athenian leg of lamb, or a combination

Dinner on Greek night will be served from 6 to 9 p.m.

Chief Petty Officers' Club

"The Sunlight Group," a local combo playing contemporary music, will be performing for the listening and dancing pleasure of Chief Petty Officers' Club members and guests tonight from 8:30 to

The main entrees on the CPO Club menu will be prime ribs of beef and white fish. Dinner will be served between 6 and 8:30



(Comedy, rated R, 113 min.) Mid-life, mid-career crisis topic of class offered by college

(Suspense-thriller, rated R, 102 min.)

"THE MAIN EVENT"

Starring

Barbra Streisand and Ryan O'Neal

"USED CARS"

Kurt Russell and Gerrit Graham

FEB. 21

FRIDAY, SUNDAY

Those who are troubled or concerned with their reactions to mid-life or mid-career may find the answers that they are seeking Burroughs High School drama productions by attending a special 1-unit course offered or with the Community Light Opera and by the Enrichment College of Cerro Coso Community College.

"Understanding the Mid-life and Mid-Deardurff is the assistant director and stage nesdays from 7 to 10 p.m., starting Feb. 18 and ending March 25. The instructor is

The class will be held in Rm. 246 at the college. Those who wish to enroll may do so the first evening of the class; there is no charge.

The course will trace the historical concept of personality development and life cycle theory, examining the stages of life and the aging process, and will emphasize the awareness of crisis and understanding of the process.

Tickets available for CPO ball on March 14

All active duty and retired Navy chiefs even for those members and guests who are invited to attend the annual CPO ball at the Chief Petty Officers' Club on Saturday, March 14. Eligible to attend are E7, E8 and E9 personnel and their spouses or dates.

The evening's fun and festivities will begin with a prime rib dinner at 6 p.m., to be followed by live entertainment.

Tickets, which are priced at \$15 per person, are now on sale at the CPO Club. Uniform for the occasion will be service

dress blues, with long gowns suggested for

U.S. Government Printing Office: From:_ PLACE STAMP HERE

Water resources management committee proposed

The Naval Weapons Center has proposed the Geothermal Utilization Division in the the establishment of an Ad-Hoc Water Management Committee whose purpose it will be to establish near- and long-term policies that will foster proper management of the water resources of the Indian Wells

Recognizing the vital importance of water resources to the future of this high desert area, Capt. William B. Haff, NWC Commander, last September asked that a policy paper on Indian Wells Valley groundwater be prepared.

This task, carried out by Dr. Carl Austin, William C. Bonner, and Dr. Pierre St.-Amand, was completed and approved in December by Capt. Haff, who expressed his appreciation for the development of information that will be useful in the management and long-term planning for this critically important resource.

NWC Public Works Department; Dr. St.-Amand, who heads the Research Department's Earth and Planetary Sciences Division, has a degree in geophysics with a minor in geology, and has taught collegelevel classes in hydrology and water geology; and Bonner, a civil engineer, heads the Public Works Department's Civil/Structural Branch and oversees operation of the Center's water production treatment and distribution systems.

Developed from the study made by these men was the first NWC policy on water, copies of which have been sent for information purposes to prospective participants in the proposed Ad-Hoc Water Management Committee, including the following: the Indian Wells Valley Water District, Kerr-McGee Corp., other commercial-industrial water users, agricultural Dr. Austin, a research geologist, heads users, and small water companies and

cooperative water well owners in the IWV Other copies of the NWC policy on water were sent to state and county legislators, to

the mayor of Ridgecrest, and to the Kern County Water Agency in Bakersfield. In a background statement contained in the IWV ground water policy paper, it is noted that NWC occupies the land surface of a significant portion of the valley and, due to its control of this area, water production by private and municipal interests has become

concentrated along the south and west

perimeters of the Center. It is further pointed out that the concentration of water pumping in the midvalley area (along Inyokern Road, midway between the NWC main gate and Inyokern) by the Indian Wells Valley Water District, Kerr-McGee Corp., and the Navy has created a relatively large and rapidly deepening groundwater depression

Concern is expressed due to the fact that overpumping in this midvalley area has caused the water level in Ridgecrest and some intermediate areas to fall, and some domestic water wells have gone dry.

As the depth to reach water increases in the area of the mid-valley pumping depression, the cost of electrical or other energy for pumping water will increase and eventually become excessive. For this reason, it is foreseen that large-scale water production efforts must ultimately be moved from the mid-valley area if energy costs are to remain reasonable.

In view of the foregoing, NWC has stated in its policy on water that the Center wil continue to carefully manage its pumping in the mid-valley area and will neither construct new wells in that immediate area, or modify existing pumping plants in order to draw out additional quantities of water.

(Continued on Page 5)



NAVAL WEAPONS CENTER CHINA LAKE

Vol. XXXVI, No. 6

February 13, 1981

Soldering Technology Seminar Set3 Engineers' Week Banquet4 CS Survivor Benefits Amended 5 College Drama Cast Chosen 8

done," says Dr. Nick Bottka, a physicist in

the Semiconductor and Surface Science

Branch of the Physics Division in the NWC

and Dr. Marian Hills, a chemist in the

Optical and Electronic Materials Branch of

the Chemistry Division, have developed the

capability to synthesize crystals by using

the liquid phase epitaxy - a technique in

which thin crystalline films are grown or

top of each other. The resultant composite

sandwich-like structure (called a

heterostructure) has unique optical and

electrical properties. "Thin layers" means

layers that are thinner than a human hair.

Current thin film techniques are reaching a

point where the layer thickness is ap-

During the past several years, Dr. Bottka

Research Department.

Crystals tailored to meet special needs of Navy are grown in NWC laboratories The physicists and chemists of the Naval "If we can grow the right material for the job, more than 90 percent of the work is

Weapons Center Research Department don't bear much resemblance to farmers, but they, too, are actively involved in growing substances.

Crystals, not plants are cultivated in the laboratories housed in Wings 4 and 6 of Michelson Laboratory. These crystals form part of materials being tailored specifically to meet the needs of the Navy.

The miracles of microelectronics have resulted in more and more work being accomplished by smaller and smaller devices - a tiny chip can now perform a thousand times more operations and use much less power than a massive assemblage of wires and components could do 20 years ago. With this miniaturization of electronics, however, has come the need for

artist, and will be on display Tuesday af-

ternoon and all day Wednesday in the

The Community Center also will be the

setting for films that will be shown from 1 to

3 p.m. on Wednesday and Thursday, Feb. 18

and 19. Movies that will be presented both

Office of Personnel Management in

Washington, D.C. His subject will be "Af-

On Friday, Feb. 20, Mrs. Lewis will give a

talk entitled "Problems and Goals of

Women in the Federal Government" during

a seminar from 9 to 11 a.m. in the Com-

munity Center. Included in her discussion

will be a segment about black women in the

EEO credit can be earned by employees

Community Center's Cactus Hall.

"Black and White."

firmative Action Programs."

military service.

proaching one molecule. ADVANCE IN TECHNOLOGY

Thin-films of materials on a substrate car be made to function as solar cells, electrical valves, detectors of visible and infrared radiation, etc. Thin film expitaxial technology, when combined with microminiature circuit design, allows electrical signals to be manipulated at a very high rate - much higher than with today's devics.

days are "Black History: Lost, Stolen and Strayed," narrated by Bill Cosby, and Ultra thin films are being commercially developed for use in digital circuits for The first of two seminars will take place computers and the other myriad purposes from 9 to 11 a.m. on Thursday, Feb. 19, also to which microelectronics is being put. The at the Community Center. The speaker will Research Department at NWC is be Peter Chen, Deputy Director of the Office developing in-house capabilities to meet of Affirmative Employment Programs. special Navy needs in this area.

> The thin films are being develope for use in making target detecting devices that can improve the accuracy of missiles An especially effective device is a "two color" detector that can detect and discriminate between two distinct "colors' of infrared light, corresponding to dif ference in signatures between two targets Thus a two-color detector can help a missile select the proper target on which to home.

> A second class of detectors being developed is a large area, multi-element (Continued on Page 4)

Banquet to climax Black History Week activities

INCUBATOR FOR CRYSTAL GROWTH — Robert Dalbey looks over Dr. Nick

Bottka's shoulder as Dr. Bottka explains how the reactor for liquid phase epitaxy

works. The reactor has atmospheric controls as well as a special heater to provide

the proper environment for crystal growth. Dr. Marian Hills, who has worked

extensively with Dr. Bottka in phase epitaxy work was unable to be present

The local observance of Black History Week, which has been scheduled Feb. 16-20, will be climaxed by a banquet to be held next Friday, Feb. 20, at the Enlisted Mess.

A social hour starting at 6:30 p.m. will be followed at 7:30 by a steamboat beef and baked ham dinner, and the evening's program will follow.

Featured speaker for this occasion will be Helena Lewis, Deputy Equal Employment Opportunity Officer in the Office of the Commandant of the U.S. Marine Corps.

Mrs. Lewis, who has held this position since 1973, will present a talk entitled "Blacks in the Federal Government."

The top EEO civilian official for the Marine Corps began her Civil Service career as a file clerk for the Navy Department's Bureau of Personnel in 1951. A graduate of Shaw University in Raleigh, N.C., she had six years of preparation for her present assignment during which time she worked for the Marine Corps as an employee development assistant starting in

Mrs. Lewis, a married woman with four children and three grandchildren, is a

in Government." She also is active in the local chapter of the National Association for the Advancement of Colored People in Prince George County, Maryland, as well as in the county's Mental Health Association and Tri-Area Civic Association.

-Photo by Sam Wyatt

Tickets to the Black History Week banquet, priced at \$7 per person, are now on sale and can be ordered by calling the following Centerites at the telephone numbers listed for them: Catherine Beckett, NWC ext. 2592; Debbie Roberts, ext. 2348; Mabel Hawley, ext. 3508; Will Carey, ext. 7437; YNC Theophilus Morgan, ext. 5337; or Virginia Sandberg, ext. 3223.

This same group of persons can be contacted for tickets to a Black History Week luncheon featuring soul food that will be held on Wednesday, Feb. 18, from 11:30 a.m. to 2:30 p.m., also at the Enlisted Mess. Price of the luncheon is \$1.90 per person.

In addition to the banquet and luncheon, special activities scheduled during Black History Week include an art exhibit, a film festival and two seminars.

The exhibit of art work is being coor- who attend the film presentations or one or member of an organization called "Blacks" dinated by Tommy Williams, a local black both of the seminars.



FINAL TOUCHES - Harry Bryan from the Planning and Estimating Branch of the Public Works Department checks to make sure that the sign welcoming airborne visitors to NWC is properly hung. The air terminal for visitors has been moved from its former location by Hangar 2 to the green building formerly used as a line maintenance shop located between Hangars 1 and 2.

Retirement benefit for military families updated, signed into law

families has been updated by Congress and signed into law by the President.

The Congressional actions will improve the Survivor Benefit Plan (SBP), a program which assures financial protection for survivors of retired Uniformed Services members who elected to take part in SBP upon their retirement.

Individuals covered under the SBP may be widows or widowers of retirees, dependent children of retired individuals, or persons with an insurable interest in a retiring member.

Survivor annuities provided can be as much as 55 percent of the retiree's pay at time of death.

When participating in the Survivor Benefit Plan, a portion of the cost is withheld from the retiree's pay, but the federal government pays a substantial part of the Survivor Benefit Plan cost.

Changes which went into effect on Dec. 1, 1980, were:

(1) Limiting the reduction in the Survivor Benefit Plan annuity as a result of the Social Security offset to a 40 percent maximum of the annuity. Previously the entire amount of the Social Security benefit attributable to the member's military service was deducted from the SBP annuity of annuitants 62 years of age and older. This change in the law will be immediately advantageous to survivors of deceased enlisted retirees, although

(2) Changing the formula for calculating the retiree's cost for the Survivor Benefit Plan. Now the cost of the Survivor Benefit Plan will increase only at the same rate as the ore.

A major retirement benefit for military the consumer price index. Previously the cost rose under the basic formula of 2.5 percent of the first \$300 of retired pay and 10 percent of the remainder

> (3) Providing for Survivor Benefit Plan annuities to widowers or widows whose service member spouses died on active duty before Sept. 21, 1972, if the member was eligible for retirement at the time of death. These deceased servicemembers never had an opportunity to elect SBP coverage since the program was not in effect prior to the September 1972 date. Since the Military Departments have not maintained records on these individuals, those affected by this change should contact their deceased spouses's Service Finance Center for information and applications.

> (4) Permitting retirees who are determined by the Veterans Administration to be totally disabled for a period of time to suspend making payments into the Survivor Benefit Plan and to withdraw from participation. Such individuals can return to SBP coverage if the disability becomes less than total in the future.

Energy conservation tip

Buy products made of recycled materials or those that can be recycled-steel, aluminum, paper, and glass among others. More energy is used in the production of products from virgin materials than from recycled or reclaimed materials. For example, producing steel from scrap requires only one-quarter of the energy it would take when using virgin ores. Making a product from recycled aluminum requires less than 10 percent of the energy that would be needed for the same product made from

The Rocketeer

Official Weekly Publication **Naval Weapons Center** China Lake, California Captain W. B. Haff NWC Commander R. M. Hillyer

Technical Director S. G. Payne

Public Affairs Officer Don R. Yockey

> Mickey Strang Associate Editor

Beverly Becksvoort **Editorial Assistant**



News Stories Tuesday, 4:30 p,m Tuesday, 11:30 a.m. **Photographs** The Rocketeer receives American 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 NAVSO P-35 revised May 1979. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in The Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003.

Promotional opportunities

Applications (Standard Form 171) should be put in the drop box located at the Reception Desk of the Peronnel Department, Bldg. 34. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current appointable (i.e., career/career conditional and VRA) NWC employees only. All others desiring employment at NWC may contact the Employment-Wage & Classification Division, Code 092, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DoD Program for the Stability of Civilian Employment. The minimum qualification requirements for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook X-118; those for all wage system positions are those defined in OPM Handbook X-118C. Applicants will be evaluated on the basis of experience, training, education, and awards as indicated in a written record consisting of a SF-171, at least one super visory appraisal if it can be obtained, and any tests, medical examinations, interviews, and suppleme ualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmer

GS-083-7, PD No. 8124002N, Code 2413 - Position of Police , Remote Range Patrol, is located within the NWC Police Division, Safety and Security Department Position's primary function is supervising the police and patrolling operation of and ensuring the security of the note ranges. Incumbent will supervise patrolling a land mass of 1,700 square miles manned by four or five range patrol police officers. Will administer the EEO Program. Job Relevant Criteria: Knowledge of all aspects of police work; ability to motivate and supervise; willingness to support Federal EEO policies and goals; familiarity with the California State Fish and Game Laws and various ecology instructions of BLM; familiarity with and ability to

work independently on NWC's remote ranges.

Announcement No. 24027, Secretary (DMT), GS-318-5, PD No. 7924007N, Code 241 — This position is the secretary to the chief of police. NWC An incumbent will provide/direct the clerical support needs of the Police Division through the technical direction of the division clerks as well as providing secretarial services to the chief of police such as maintaining his calendar, making ents, setting up meetings, coordinating an controlling correspondence, records and reports. creening/routing incoming material, drafting/originating correspondence needed, transcribing minutes of meetings, assisting the chief of police in preparation of the division's , and participating generally in the work of the police chief by relieving him of the need to deal with the details of the administrative aspects of his work. Job Relevant Criteria: Ability to use dictating machines effectively, ability to work independently; knowledge of Navy and civilian correspondence procedures; ability to meet and deal with the public/workforce with courtesy and sensitivity; ability to provide technical direction to others (in clerical areas). Applications will be accepted from

Announcement No. 25-035, Supervisory Supply Technician, GS-2005-6/7, PD No. 7925029N, Code 25752 -This position is that of head, Receipt Processing Section, Receipt Control Branch, Control Division, Supply Department. The incumbent is responsible for supervising and directing the work of the section which involves establishing and controlling the "purchase contract" open order file, matching receipt paperwork and certifying receipts, determining and controlling the NWC Maste Procurement File and maintaining the Delivery Suspense File. Job Relevant Criteria: Knowledge of Federal Supply System; knowledge of supply functions and procedures ability or potential to supervise an organization; ability to meet and deal effectively with others; ability to work well under pressure, and willingness to support Federal and NWC EEO Program. Supplemental Qualifications Statement (SQS) is required. SQS is available in Rm. 100 of

ncement No. 25-036, Warehouse Worker General Foreman, WS-6907-8, JD No. 7625013E, Code 2591 — Position is that of head, Storage and Retail Issue Branch, Material Division, Supply Department. Incumbent plans, organizes and controls the work assignments of the branch meet the stated objectives of the division, establishes goals and deadlines through subordinates to meet management requirements, initiates personnel and disciplinary actions and reviews for approval similar actions of subordinate supervisors, and prepares annual training program for the branch. Applicants must possess enough knowlege and abilities in the following to perform the duties of the position: Ability to supervise through subordinate supervisions; ability to plan and organize work; ability to work with others; ability to meet deadlines pressure; ingenuity (ability to suggest and apply new ideas; safety practices), and willingness to support Federal and NWC EEO program. SF-171 and supplemental Suppl wage grade supervisory information sheet with Code 09 to be received not later than Feb. 27, 1981. Forms are available in Rm. 100 of the Personnel Department, Bldg 34.

ement No. 26-061, Gardener, WG-5003-4, JD. No. 443N, Code 26418 - Note: This is a rerun of Announcemen No. 26-055. Previous applicants need not reapply. This position is located in the Laborer Shop, Public Works Department. Incumbent performs seasonal gardening work such as fertilizing, preparing seedbeds and lawn areas, transplanting trees and shrubs, laying sod, aerating, pruning, trimming, and applying various chemicals to plants. Incumbent may be called upon to perform duties as a general laborer when not performing gardening work. Note: Position has promotion potential to WG-6, however, promotion is not guaranteed. Job Relevant Criteria: Ability to do work of the position without more than normal supervision; technical practices; ability to interpret instructions and to follow directions; dexterity and safety; and ability to use and maintain tools and equipment. Supplemental is required and may be picked up at the reception desk or in Rm. 210 of the Personnel

Announcement No. 26-062, Industrial Electronics Control Mechanic, WG-2663-11, JD No. 465N, Code 26425 - Position is located in the Maintenance-Utilities Division of th Public Works Department. Duties of this position are to lay out, plan, design, build, test, install, maintain, troubleshoot and repair all types of highly complex integral devices, mblies and complete electronic units such as remote control and telemetry, instrument recording, biler flame safety devices, diathermy, X-ray, electro-cardiac monitors and recorders, security alarms and devices, and voltage and frequency controls for power generating equipment. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; knowledge of industrial equipment operation, control and control repair; knowledge of electrical and electronic theory; use of test equipment; ability to troubleshoot; ability to interpret instructions, blueprints, schematics, specifications, etc. Supplemental is required

and may be picked up at the reception desk or Rm. 210 the Personnel Building.

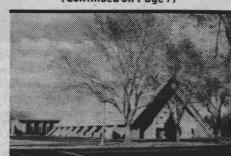
February 13, 1981

Mechanic, WG-5309-8, JD No. 425N, Code 26422 - This position is in the Maintenance-Utilities Division, Public Works Department. The incumbent works with journeymen installing, maintaining, and repairing industrial and commercial gas fired heating and evaporative cooling equipment. Incumbent analyzes defective operation disassembles, makes mechanical and electrical repairs, and replaces parts using necessary tools of the trade. Note: Position has promotion potential to WG-10; however promotion is not guaranteed. Job Relevant Criteria: Ability to install, repair or maintain pertinent equipment; ability to interpret instructions, specifications, etc.; ability to troubleshoot pertinent equipment; ability to use tools and measuring instruments; ability to do the work of the position without more than normal supervision. Sup plemental is required and may be picked up at the eception desk or Rm. 210 of the Personnel Buil

Announcement No. 26-064, Electrician, WG-2805-10, JD No. 569N, Code 26444 - This position is in the Maintenance Working from drawings and specifications, the incumber plans, lays out, constructs, installs, tests and troubleshoots electric and electronic equipment, applying the whole range of electric journeyman skills to unusua requirements and conditions. Repairs and troubleshoots perimental and developmental equipment. Designs, fabricates and installs power requirements for foreign and systems at radar sites. Job Relevant Criteria: Ability to do the work of the position without more than norma supervison; use hand and power tools; safety and dex terity; technical practices. Supplemental is required and may be picked up at the reception desk or Rm. 210 of the

Personnel Building.
Announcement No. 31-017, Supervisory Electronics Engineer/Supv. Aero. Engr./Supv. Mech. Engr./Supv. Mathematician/Supv. Physicist, DP-855-3, PAC No. 8131503, Code 3114 - This position is located in the Avionic Facilities Division, Aircraft Weapons Integration Depart ment and is that of head, F-18 Facility Branch (Code 3114). The Avionic Facilities Division develops, maintai and operates Weapon System Support Facilities (WSSFs) for the major aircraft programs of the Center. The WSSF is a simulation/integration facility for the development, tes and evaluation of tactical software. It supports the aircraft WSSA functions in technical assistance and requirement definition, subsystem development, weapons system in-tegration, validation and fleet support. The mission of the branch is to provide technical and management support to the F-18 Aircraft Program Office for the developme maintenance and operation of the F-18 WSSF. This support includes facility management, system analysis and planning, scheduling, hardware/software specification, procurement, fabrication, test, integration and ap plication. The incumbent will provide technical and ad

(Continued on Page 7)



DIVINE SERVICES PROTESTANT

Sunday Worship Service Sunday School—All Ages Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant. Communion Service first Sunday of the Month

ECUMENICAL Wednesday Noon Bible Study Thursday Men's Prayer Breakfast 0630 ROMAN CATHOLIC

MASS 0830-1130 Nursery, Chapel Annex 1 0815-1245 Daily except Saturday, 1135 Blessed Sacrament

CONFESSIONS 1115 to 1130 RELIGIOUS EDUCATION CLASSES Pre-school thru 11 th grade 1000 Above classes are held in the Chapel Annexes

"Home" Discussion Groups As announced and Youth Rallies Contact Chaplain's Office for specifics. JEWISH SERVICES

12th grade

across from the former Center Restaurant.

Sunday afternoon

EAST WING - ALL FAITH CHAPEL Sabbath Services every Friday UNITARIANS CHAPEL ANNEX 95

Services-(Sept.-May)

BHS soccer...

(Continued from Page 7)

soccer for the enjoyment of the home town fans who turned out for this contest.

Frank Ortiz, a defender for Burroughs, was credited by Coach Kauffman with making the play of the game when he came out of nowhere to block a shot that seemed headed into the Burros' net after a scramble near the goal midway through the second half of play.

The BHS soccer team closed out the season Tuesday afternoon by battling to a 2-2 tie in a game played against Hart High School.

The Burros got off to a 1-0 lead on a goal tallied by Jeff Fisher, who broke into the clear after taking a pass from Larry Trovinger, and slipped the ball past the Hart goalie.

PENALTY LEADS TO SCORE

Before the first half ended, a penalty against a Burroughs player for touching the ball with his hands led to a free kick by Eddie Morana, of Hart, who scored.

The score remained tied at 1-1 until Morana worked his way free in the middle zone in front of the BHS goal and booted the ball into the net to give Hart a 2-1 lead with 15 min. left to play in the game.

That put the pressure back on the Burros, who responded by setting up some good running and passing that got the ball to Mike Oliver near the Hart goal. When the Hart goalie charged for the ball. Oliver was able to work it past him and into the net for a goal that tied the score at 2-2.

Before the game ended, a long shot off the toe of Fisher was nearly good for another score, but the ball bounced harmlessly off the right goal post.

Intramural League...

(Continued from Page 7) 29 points to go along with 16 by Joseph Esparza and 14 by Rusty Rivet.

Leading scorers for the Panthers were Randy Sunday (20), James French (17), and Rov Kirk (13).

In Division C competition, the CSC cagers deflated the Gas Bags by a score of 65-34, and Pat & Cec's Antiques knocked off the winless Supply Bombers 42-37.

Carl and Kenneth Noland, who tallied 19 and 12 points, respectively, led CSC to an easy win over the Gas Bags. Ten points each by Faris Bandak and Brian Moses also contributed to the lopsided victory. The top scorer for the Gas Bags was Scott O'Neil,

Jim Spencer was the main threat on offense for P&C's Antiques as he tallied 24 points during his team's win over the Supply Bombers. The Antiques trailed 16-12 at halftime, but overcame this deficit with points to spare in the second half. Leading scorers for the Supply Bombers were Rick Feauto and David Rochfort, who tallied 15 and 12 points each.

employee spotlight

"We literally shred and mulch tons of classified documents eacy year."

Estela Q. Paine



Estela Q. Paine joined a very select group of people when she became head of the Classification Management Office in the Information and Internal Security Division of the Safety and Security Department in 1979. Only about 400 people in government and private industry hold membership in the National Classification Management Society, Inc., the professional society for those whose job it is to determine when information about programs, hardware and software should be restricted by being given a security classification, and to what level this information needs to be restricted for national security.

By Mickey Strang

"A big boost in doing my job," says Estela, "comes from the tremendous help of the technical people who determine when an advancement in the state-of-the-art exists and must be protected. I know the security requirements, but I need their expertise for the technical aspects.

Excellent training received

Estela learned the security requirements during the 15 years since she came here to work as an assistant to the department secretary. She became department secretary, and got involved with many of the functions that a head of staff has to perform because the department was so small then that there was no head of staff. This led to increasing responsibility for security matters - "I received excellent training from Ben Hartman, who was head of the Security Operations Division" - and, eventually, to

The job involves not just various aspects of classification, but also the protection of all classified materials from marking, handling, and storing, to their eventual destruction in the mulching room. ("We literally shred and mulch tons of classified documents each year.")

Keeping track of the large amounts of classified documentation around NWC and providing guidance to contractors who have to deal with classified materials is also a big job. "We really have a pretty good record despite the amount of material we have to keep track of," she notes, "mainly because everyone is very conscientious." Also, there's a certain amount of preventive

medicine involved; if some area comes to the attention of the department due to minor security infractions, Estela and the other staff members make unannounced inspections either during working hours or after hours (usually accompanied by the Security Coordinator for the cognizant department) to inspire better compliance with regulations before documents are actually lost or compromised

In spite of all her concern with security, however, Estela has permitted and enjoyed the presence of two spies looking in at her office during the past two years. These spies produce no security problem, however, because they are a pair of pigeons who have nested on the cooler in her office window, and last year raised two families of baby pigeons.

Raised six children

Perhaps Estela just has a particularly soft spot for a set of devoted parents-she and her husband Charles have raised six children of their own, three boys and three girls, and are the very proud grandparents of three youngsters. Two of the six were born in Ridgecrest after Charles came to work for the Center, but four were born in Trona where Estela grew up. "We really felt that we were moving to the big city when we moved here from Trona,"

While the children were in school, the Paines were active with Girl and Boy Scouting, and various youth athletic programs, including the Booster Club

"About the only group that I've been very active with since is the 500 club. I bowl with two leagues and thoroughly enjoy it." She's also been a member of the Indian Wells Chapter of Federally Employed Women since the group was formed, and has been concerned about the rights and status of women in the work

"A high point of the past several years for me was when I was able to be part of the panels that helped select Belle Hervey as Federal Women's Program Manager and NancyLee Loundagin as Hispanic Employment Program Manager," she says. "Picking good people to administer these programs makes a world of difference to all personnel on the Center.'

BHS girls win...

her present position.

(Continued from Page 7)

to muster just 4 more points in the fourth quarter, compared to 16 for Burroughs, and when the final buzzer mercifully sounded to end the game, had fallen behind by a 46-point margin of 71-25.

Everyone who played in the game for the BHS varsity girl's basketball team scored, but the leaders in the scoring department were Brenda Macomber (14), Leslie Krenzel (12), Patti Minnis (10), and Marije DeGraw (9)

Due to a cold, Julie Baker, starting center for the BHS girls, played during the first period only, and Shelley Gravelle, another starter, missed the entire game due to minor injuries suffered in an auto accident.

WINNERS ALL - Winners in the recent men's doubles racquetball tourney

gathered to collect their trophies recently—and still found themselves trophyless

because of an unexpected delay in delivery. In the front row, I. to r., are Les

Saxton, who took second place with his partner Tom Dodson, Ron Derr and

Veryl Lillywhite, first place winners in the open division. Dodson was unable to be

present for the picture. In the second row are the teams of Rich Perrine and Ron

Atkins, second place winners in the intermediate division, and Jerry Polly and Dan

Fields, who captured top honors in that division. —Photo by Don Cornelius

Promotional Opportunities

(Continued from Page 2)

strative direction for work assigned to the branch. The incumbent may also have responsibility for the development, training and recruitment of personnel in the programming, digital system architecture, system in ation and computer applications. Job Relevant Criteria: Knowledge of digital computer and aircraft avionic systems, system design, software engineering and simulation of aircraft avionic systems; ability to plan, schedule and direct development activities of complex simulation or weapon systems; ability to supervise and manage a branch organization; knowledge of the contract and procurement process. Promotion potential to DP-4. Previous applicants need not reapply

uncement No. 33-007, Training Specialist, GS-1712-5/7/9/11, PD No. 8133008, Code 3306 — This position is located in the Interactive Graphics Program Office, Fuze and Sensors Department. The incumbent has respon sibility for creating and developing appropriate training materials for interactive graphics software application packages and for determining the needs and special equirements for training within the Naval Laboratories Interactive Graphics Program community. Incumbent will nitor and evaluate training contracts and will be required to give formal classroom training as well as informal consultation with individuals or groups of individuals. This program is responsible for a network of as much as one half of the incumbent's time may be spent on travel. Job Relevant Criteria: Comprehensive

Registration for youth soccer teams begins Mon.

Registration of boys and girls in the first through eighth grades who are interested in playing on youth soccer teams this spring hour plus benefits, permanent, full-time, Commission will begin on Monday and continue through March 16 at the Recreation Coordination

Fees of varying amounts, depending in part on whether or not the purchase of a team T-shirt is necessary, must be paid at the time of registration.

All prospective players are required to reregister for the spring season of Youth Soccer League play. Those who competed on teams last fall will remain on the same team. All others must attend tryout sessions at times and places that will be announced at the time of registration.

technical writing capabilities are desirable; ability to communicate with people at various technical and management levels within NWC, with other Navy R&D centers, and with private contractors.

Announcement No. 33-008, Industrial Engineer, DP-896-3, PAC No. 8033694, Code 3306 — This position is located in the Interactive Graphics Program Office, Fuze and Sensors Department. This program is responsible for the procurement, integration and continued support of teractive graphics systems at all NAVMAT R&D Laboratories. The incumbent will be responsible for the design and implementation of a program that will monitor Navy Labs system productivity and will help to increase and maximize productivity gains. Job Relevant Criteria: Ability to effectively communicate with people at various technical and management levels within government and private industry; experience with systems analysis; ability to plan and administer a program.

ncement No. 26-065, Clerk, GS-303-3, PD No. 026088N, Code 26402 - Position is located in the Mainance-Utilities Division of the Public Works Department Incumbent receives trouble calls from Center personnel and prepares chits and dispatches personnel to prope work areas. Maintains files; keeps on-going log of work in and gathers data for status reports. Job Relevant Criteria chit preparation and distribution; knowledge of radio dispatching procedures and codes

Recreation Aid, PS-0189-02, \$3.35 per hour plus benefits. permanent, part-time, Golf Pro Shop — This is not a Civil Service position. Incumbent schedules and makes reservations for use of the facility by players; collects dues; fees for all golf activities and records same; prepares sales receipts for sales in Pro Shop; acts as sales clerk for merchandise; prepares electric cars for rental; performs cleaning functions in Golf Pro Shop, golf car sheds and surrounding areas; other duties as assigned. Qualification Requirements: Should have previous experience as a sales clerk; must be able to work weekends and holidays; able to lift and carry 60 lbs.

Announcement No. 00814, Waitress, NA-7420-2, \$3.51 per Officers' Mess (Open) — This is not a Civil Service position. Must be fully trained to perform all duties required for operations in a dining room and bar; must be physically able to perform arduous duty such as prolonged standing, walking, reaching and moderate lifting (25 lbs.). Announcement No. F1811, Payroll Clerk, AS-05544-4/5,

\$4.20 per hour plus benefits, permanent, full-time, Recreational Services Department, Financial Division — If filled at the 4 level, there is a promotion potential to As-5. This is not a Civil Service position. Responsible for processing of nonappropriated fund financial records, reports and forms relating to recreational services ac tivities. Job Relevant Criteria: Must be expert in use of business machines; in control of accountability for cash receipts and preparation of reports relating to same; must be familiar with payroll procedures; must be a high school graduate.

For non-Civil Service positions apply with Bettye Cheatam, Bldg. 21, Ph. 3387.

Two teams tied for Division A lead in Intramural League

Two teams - Charlon and Simolon and We Party - remain locked in a tie for first place after last week's action in Division A of the China Lake Intramural Basketball League.

The Charlon and Simolon cagers defeated Loewen's A 55-50, while We Party hung a 48-39 defeat on the winless KMCC Piranha

In a closely-played game, Loewen's A led 21-19 over Charlon and Simolon at the halftime break, but couldn't keep pace with Charlon and Simolon's 36-point scoring effort in the second half.

Mike Waters, of Charlon and Simolon was the game's high point man with 19, while Mason Bazemore and Allen Robertson tallied 14 and 10 points, respectively, for the winners. Loewen's A had three players with 10 points each. They were Mike Graham. Kevin Kopp, and Andy Price.

We Party started off slowly and was held to a 17-17 first half tie by the KMCC Piranha hoopsters. In the final 15-min. of play, however, Millard Bell and Steve Blanche, who scored 14 points each, helped to pick up the win for We Party. Top scorers for the Piranhas were Steve Rodriguez and Bob Parson, who tallied 12 and 11 points each.

In the only other Division A game played last week, the Piranhas suffered a 61-46 defeat at the hands of the Desert Lakes cagers. Calvin Lowery of Desert Lakes led all scores with 21 points, and Gary Barnes pitched in 16 more for Desert Lakes. Parsons and Al Saunders hit 10 points each in a losing effort for the Piranhas.

The undefeated Loewen's B team continues to hold the upper hand in Division B of the Intramural Basketball League. The division leaders posted their seventh win in a row last week by zapping the Zephyrs 57-

Ken Dorrell with 19 points, and Bobby Cubit, who tallied 16, led the scoring for Loewen's B in this one-sided tilt.

A gusher of points was tallied by the F Troop cagers, who stampeded the Panthers 72-57 in a regulation 30-min. contest. Ton: Stone of F Troop had a hot hand as he scored (Continued on Page 7)

Triangle Mobile Homes keglers now have 12-game lead

A three-game sweep over the Elks Lodge over their nearest rivals during Monday night's Premier League action at Hall Memorial Lanes.

remain locked in a second place tie with 38 respectively. wins and 28 losses, compared to the 50-16 record for Triangle Mobile-Homes.

Bowlers representing The Place nabbed team honors on Monday night with a single game score of 1,023 and a 3-game series

Premier League bowlers who topped the 600 series mark, and their scores, were Thad Brightwell (657), John Therning (616), Hub Zimmerman (615), Jim Kincheloe (612), Aaron Kane (606), Benny Whiteside (602), and Jim Bowen (601).

Those with single game totals of more than 220 were Brightwell (235 and 223), Whiteside (235), Bob Banks and Mark Barkemeyer (230), Therning (225), Jim Kincheloe (222), and Zimmerman (221).

BHS boys' team clinches share of league title

ROCKETEER

Burroughs High Schools boys' varsity basketball team clinched at least a share of the 1981 Golden League crown this past week as the result of back-to-back wins over their counterparts from Palmdale and Hart High Schools by scores of 74-59 and 77-58, respectively.

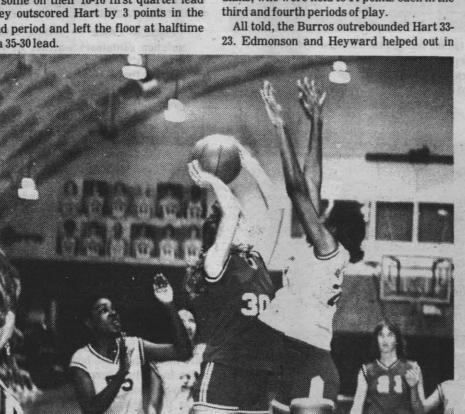
After playing five consecutive games earlier this season in which the outcome hung in the balance until the closing seconds of the contest, last week's tilts against Palmdale Falcons and the Hart Indians were a welcome change of pace for the

It was a tight ball game for the first half of Tuesday night's game at Hart High School in Newhall. The Burros were able to expand some on their 18-16 first quarter lead as they outscored Hart by 3 points in the second period and left the floor at halftime with a 35-30 lead

The Burroughs High cagers dominated the second half, however, being led on offense by Curtis Edmonson and Billy Brown, who tallied 8 points each in the third quarter after also carrying the load in the first period when they scored 8 and 6 points, respectively.

This was the best game of the year for Edmonson, who ended up as high point man with 22, followed by Brown with 20, Dalton Heyward with 17, and John Robertson with

Robertson also contributed mightily on defense as he latched onto seven defensive rebounds to go along with three more on offense. Robertson's efforts helped to neutralize the offensive effort by the Indians, who were held to 14 points each in the



HEAVY TRAFFIC - Leslie Krenzel (No. 30), a starting forward for the Burroughs High School varsity girls' basketball team, draws a crowd as she goes up to get off a shot at the basket during last Friday night's game at home against the Palmdale Falcons. Krenzel is closely guarded in front by Regina Juniel of the Falconettes and is being stalked from behind by Ramona Mitchell. The Burros' girls won this game 53-46, and Krenzel was the leading scorer for the home team —Photo by Don Cornelius

Burros' girls easy winners in keglers to increase their lead to 12 games games against Palmdale, Hart

Gearing up for a showdown next Friday against Antelope Valley that will decide the winner of the 1981 Golden League basketball Both the Buggy Bath and Fisher crown, the Burroughs High School girls' Plastering squads lost one of their three varsity basketball team this past week games to Partlow Construction and the racked up wins at the expense of Palmdale Raytheon Sidewinders, respectively, and and Hart by scores of 53-46 and 71-25,

> The BHS girls had a height advantage over the visitors from Palmdale, and this enabled them to work the ball inside for

> The Burros' girls led most of the way in a game that was marred by numerous fouls. The halftime score was 27-18 in favor of BHS and by the end of three periods of play, the Burros were out in front by a 14 point margin of 43-29 over Palmdale.

The Burros' starters were given a respite on the bench, once the outcome of the game appeared assured, and, with the BHS Palmdale closed the gap to 7 points at the

forward Leslie Krenzel with 13 (4 field goals position in front of the Centurions' goal and and 5 free throws), center Julie Baker with headed the ball just over the goalkeeper's 12 (3 field goals and 6 free throws), and hands and into the net. Marjie DeGraw, Baker's replacement at center, who also tallied 12 (5 field goals and minutes of play in the first half and the 2 free throws).

Ida Somera of Palmdale was the game's short-lived 2-0 lead. top scorer with 16 on 5 field goals and 6 free This time Trovinger maneuvered the

girls' basketball game during Tuesday deflect the pass into the Saugus net. night's game played at the BHS gym. The runaway began in the first quarter when the hoopsters from Hart scored just 4 points and fell behind 17-4.

By halftime, the Burros girls had a cut the home team's lead to 2-1. comfortable lead of 34-15 which they in- That turned out to be the only scoring in regulars on the bench, the visitors from creased to 34 points (55-21) at the end of the game even though, with more than 40 three periods of play. The visitors were able min. still to be played, there was plenty of (Continued on Page 7)

caroms, respectively.

Heyward suffered a sprained ankle midway through the first quarter of the Hart game. When he returned to play in the second period he found it difficult to move around inside to score and resorted to longer range shots that he was able to hit on with some consistency.

Brown also found the range on his outside shooting and, after a slow first half, tallied on 6 of 8 shots from the 18 ft. mark or better and ended up the night with a 53 percent shooting record by hitting 9 of 17 field goals, while Edmonson was 11 of 15 for 73 percent.

Leading scorers in a losing effort for the Hart Indians were Tim Fernau and Deron White, who tallied 20 and 13 points,

NO MATCH FOR BURROS

A Palmdale team that hasn't won a league game this season was no match for the BHS hoopsters last Friday night in Palmdale.

The Falcons played the Burros on even terms for the first 7 min. of the game when a basket by David Wooten of Burroughs tied the score at 14-14. The Burros led 18-14 at the end of the first quarter, but before the Falcons could tally again, built up a 10-point lead of 24-14.

It was the Burros vs. John Kidwell of Palmdale for the remainder of the first half during which Kidwell tallied 10 of his team's 12 points. The first half ended with the Burros out in front by a comfortable margin

During what Coach Larry Bird of Burroughs called his team's best third quarter effort of the season, the BHS cagers limited Palmdale to 12 points while scoring 23 to increase their lead to 61-38.

With the game on ice, the Burros' reserves had the opportunity to get in some playing time during the third and fourth periods of play before the game ended with the BHS varsity out in front by a final margin of 74-59.

Leading scorers for Burroughs were Billy Brown, Curtis Edmonson and Dalton Heyward, with 13 points each, and Danny Drake, who chipped in 12. The Falcons were led by John Kidwell and Lanell Culver, who tallied 16 and 14 points, respectively

BHS soccer team continues to improve, defeats Saugus 2-1

Continuing to improve during this, its first season of play, the Burroughs High School soccer team last Friday racked up a 2-1 win over the previously undefeated Saugus Centurions in a game played at the Burros'

This was the second home game victory in a row for the BHS soccer team coached by Karl Kauffman, whose charges also outscored the Canyon Cowboys 3-1 the previous

In last Friday's tilt with Saugus, the Burros got on the scoreboard first on an assist by Mike Oliver, who chipped a pass to Leading scorers for Burroughs were Larry Trovinger. The latter was in good

The game's initial tally came after 13 Burroughs High soccer players added to it Baker and DeGraw led the Burroughs with a score 5 min. before the half. The girls in rebounds, getting 10 and 8, same duo of Trovinger and Oliver teamed up for this score that gave the Burros a

ball down the right sideline to the corner The visitors from Hart High School in before skidding it into the center of the field Newhall were no match for the BHS varsity where Oliver was johnny-on-the-spot to

> Before the first half was over, however, Mark Wilson, of Saugus, outran the Burros defenders to get to a high bouncing pass that he was able to head into the BHS goal and

(Continued on Page 7)



CONGRATULATIONS EXTENDED — Two NWC employees, Chester A. MacKay (in center) and Roy F. Eisenhower were congratulated earlier this week by Capt. W. B. Haff, NWC Commander, as he presented each of them with 40 year federal -Photo by Don Cornelius

350 due at Soldering Technology

Final preparations are underway to welcome more than 350 government and industry personnel from around the world who have registered to attend the fifth annual Soldering Technology Seminar next Wednesday and Thursday, Feb. 18-19.

Local personnel who wish to sit in on any of the sessions in the Center theater are

The seminar will be preceded by a meeting of the International Soldering Technology Committee on Tuesday. This gathering will be attended by representatives from Sweden, England, Germany, France and Australia, who will be meeting with Jim Raby, chairman of the committee, and head of the Soldering Technology Branch in the NWC Engineering Depart-

On Wednesday morning, after a short welcome to the Center, the presentation of papers will begin.

At 9:30 a.m. C. Capillo of the Hughes Aircraft Co. will discuss "Reflow Soldering of Surface Mounted Components;" at 10:15 a.m., Ed Zimmerman of Bendix Corp. and Jim Williams of General Dynamics, Camden, will discuss "Automatic Soldering Process Controls;" and at 11 a.m., Jim Park of General Dynamics, Pomona, and Fred Kunkle of Bendix Corp., will discuss "Cost Effectiveness of Parts Pretinning."

A lunch break will precede the afternoon session, when at 1:30 p.m. Roger Wild of IBM will lead off talking about "System Life Testing Consideration."

Other speakers and their subjects are: at 2:30 p.m., Dr. Roy Yenawine, Texas Instruments, "Flux-Solder-Metal Interaction welcome to attend without any Rates;" at 3 p.m., Ted Van der Molen, Gardiner Metals, "EPA, Effects on Electronic Production;" and at 3:30 p.m., John Armstrong, Westinghouse, and Gene James, Chrysler, "Two Completed Army Technology Programs.'

Tours of the NWC Soldering Technology buildings will be conducted until 6 p.m. for those who wish to see the facility.

A no-host banquet will be held on Wednesday night, starting at 6:30, at the Enlisted Mess. During the banquet Charles Miller, vice president of the Bendix Corp. and general manager of that company's Sylmar plant, will discuss how the zero defects system saved the company money. Reservations are required for the banquet; all tickets have been sold.

The group will gather again on Thursday, Feb. 19, at 8:15 a.m. when Dr. Dan Niebauer of Litton Industries will present a talk entitled "Component Hold-down During Wave Soldering."

Other speakers will be John Devore,

Two NWC employees receive 40 year federal service pins

mander, had the rare opportunity to present two NWC employees.

ROCKETEER

The recipients were Roy F. Eisenhower, torate. an engineering technician in the Harpoon Support Branch of the Engineering Department's Product Design Division, and Chester A. MacKay, an equipment mechanic in the Metal Branch of the Public Works Department's Maintenance-Utilities

Eisenhower's four decades of federal service began when he enlisted in the U.S. Army in December 1940. He remained on active duty in the Army for 211/2 years (until June 1962 when he retired from the military service to work as an equipment specialist (missiles) for the Army Missile Command at Redstone Arsenal in Huntsville, Ala.

His work for the Army Missile Command included a 2-year assignment in Heidelberg, Germany, with the Sergeant Missile

Seminar

General Electric, "Co-deposited Organics in Plated Coatings - A Problem" at 9:15 a.m., and at 10:30 a.m., Dr. Collin Thwaites, of The Tin Research Institute, London, will discuss "Contaminants and Their Negative Effects. Following a luncheon break, at 1:30 p.m.

Steve Caci, of Raytheon, will present a talk "Water Solubles, Characteristics, Performance - Post Solder Residue Removal." He will be followed at 2:15 by Dr. L. J. Turbini of Western Electric, whose subject is "Reliability Testing of Detergent Cleaning of FR-4 Test Coupons.'

The seminar will be concluded with a talk by Raby, chairman of this event, who will talk about the Navy Manufacturing Technology Program and will also present a soldering technology update covering the effort underway at China Lake. In addition, Raby will discuss specification standardization, test programs in process, cleanliness and testing, and program im-



On Monday morning at the Commander's Project Staff Office. When he returned to meeting, Capt. W. B. Haff, NWC Com- the U.S., Eisenhower became the liaison representative to the Chaparral Missile 40-year federal length of service awards to Program at NWC for the Redstone Arsenal's Supply and Maintenance Direc-

> He remained in that job until his transfer to NWC in 1970 as an equipment specialist assigned to the Chaparral Program Office in the former Weapons Development

> Eisenhower remained with this department until May 1978 when he was assigned to the Systems Electronics Branch in the Engineering Department's Engineering Design Division, and he has remained with Code 36 ever since.

LENGTHY CAREER IN NAVY

MacKay has been a Navy man throughout his 40 years of federal service. He joined the U.S. Navy in April 1940 and remained on active duty for more than 20 years.

Following his discharge from the Navy in July 1960, he began working in March 1961 as a civilian for the Naval Ordnance Test Station, forerunner to the Naval Weapons Center, and has remained here ever since.

MacKay's first job here was that of a pipefitter helper in the Metal Trades Branch of the Public Works Department. This temporary appointment was followed a year later by a career conditional appointment to the job or maintenance machinist in the Metal Trades Branch.

In 1965, he was promoted to the job of leading man machinist (maintenance), and this was followed in November 1973 by a temporary promotion to shop planner

Since October 1977, when a mass personnel change went into effect, MacKay has been working in the Machine Shop (Metal Section) of the Public Works Department's Maintenance and Utilities Division.

Energy conservation tip

Check the temperature on your water heater. Most water heaters are set for 140 degrees Fahrenheit or higher, but you may not need water that hot unless you have a dishwasher. A setting of 120 degrees Fahrenheit can provide adequate hot water for most families. If you reduce the temperature from 140 to 120, you could save over 18 percent of the energy used at the higher setting. Even reducing the setting 10 degrees will save more than 6 percent in water heating energy.

New surge of patriotism theme of Prayer Breakfast observance

was focused on the outpouring of gratitude Faith Chapel. that swept the nation following the release LCdr. Lou Czerwonka, USN (Ret.), who of hostages held by Iran and how this event has awakened a new surge of patriotism in

A large, yellow ribbon decorated the speaker's microphone, and smaller replicas



Capt. James E. Doolittle

More than 100 early risers took part Feb. 5 of the ribbon were distributed to those who in a local observance of the 1981 National turned out for this special program that was Prayer Breakfast during which attention co-sponsored by the congregations of the All

> was the master of ceremonies, set the tone for this affair during his introductory remarks. "Isn't it great to be an American?" he asked rhetorically. "By freedom of choice we are up this early joining thousands of others across the nation who are attending Prayer Breakfasts not because they are forced to do so, but because this is something they want to do." Americans are doubly blessed this year.

LCdr. Czerwonka commented, in reference to the release of the hostages and also, he said, because this nation stands at a fork in the road and there's a new awareness of which path to follow. "We can truly pray for. a new beginning for our country," he added. Principal speaker at the Prayer Break-

fast was Capt. James E. Doolittle, a naval aviator who heads the NWC Aircraft Department. The theme of "Thanksgiving and a New Beginning for Our Nation" was followed by Capt. Doolittle, who observed that this year's Prayer Breakfast took place at an appropriate time in view of the recent release of the American hostages from Iran.

"The former hostages seem to have survived their captivity well, and we now know that prayer had a large part to play in

their well being," the speaker stated. is dramatically different from our western culture. With the release of the ho Americans seem to have gained a new unity

and appreciation for our land." This feeling of appreciation for America is something he has learned about firsthand. Capt. Doolittle said, as he went on to



Sandra Osman Raines

describe the changes he observed among young crewmembers of a ship he served on "the hostages were captive in a culture that during a "show the flag" cruise that took them from the Philippines to ports in Indonesia, Australia, India and Africa.

"The exposure of these young men to the people of different cultures they met during liberty on shore seemed to make them stand taller with the realization of how fortunate we are to be Americans. I sensed this same pride and attitude in the former hostages as they deplaned in West Germany and New York," Capt. Doolittle said at the conclusion of his talk about one cruise of many during his military career.

The National Prayer Breakfast program was opened with an invocation given by Mrs. Marianne Nelson, vice-president of the Unitarian Council, and was concluded by the benediction pronounced by AT2 Steve Reed, a member of the NWC Sidewinder drill team.

The pledge of allegiance to the flag was led by LCdr. Jack Paschall and his wife, Tricia, and there was a Scripture reading (2nd Chronicles, Chapter 7, Verses 7-11) by Rose Varga, past president of the Jewish Council.

Special music for the occasion included two solos by Sandra Osman Raines, accompanied by Joan Fowler at the piano. Mrs. Raines sang "If My People Will Pray" and "A New Song."

Flying Wing, life of Northrop, topic at engineers' banquet

National Engineers' Week, scheduled this year during the period of Feb. 22 through 28, will be observed locally by a banquet that is to be held next Friday, Feb. 20, at the Commissioned Officers' Mess.

A social hour starting at 6 p.m. will precede the serving of a baron of beef buffet dinner. Highlight of the evening will be a program about Jack Northrop's contributions to aviation that will be presented by Bill Schoneberger, who is the author of a biography of Northrop.

Schoneberger's presentation about Northrop will deal with the aviation leader's development of the Flying Wing aircraft for the Air Force after World War II, and will include the showing of an old film about this unusual aircraft that can be seen in television reruns of films such as "War of the Worlds.'

Schoneberger's background includes more than 25 years of experience in the communications and public relations areas of the aerospace industry, primarily with Northrop Aviation and General Electric. He is the principal author of "Seven Decades of Progress," an award-winning history about General Electric's work on aircraft turbine engines.

The Engineers' Week speaker also has been involved in the planning of international air shows staged in Paris. France; Hanover, Germany; and Farnborough, England.

At the present time, Schoneberger is collaborating with Gerhard Neumann, a renowned jet engine developer, on his autobiography.

The speaker will be introduced by Ray Van Aken, of the Airframe Special Projects Office in the NWC Ordnance Systems Department, who will serve as master of ceremonies for the evening.

The Engineers' Week Banquet is sponsored annually by local engineering societies who have banded together as the High Desert Engineering Association (hIDEA). These societies are the American Institute of Aeronautics and Astronautics (AIAA), American Institute of Chemical Engineers (AIChE), American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME), American Society for Quality Control (ASQC), California Society of Professional Engineers (CSPE), Institute of Electrical and Electronics Engineers (IEEE), Society of Logistics Engineers (SOLE), and the Society of Manufacturing Engineers

Banquet tickets are priced at \$9 per person if purchased in advance, and will be available at the door next Friday evening at a cost of \$11 each.

hIDEA representatives from whom tickets can be obtained, and their telephone numbers, are Bruce Bartels, NWC ext. 3013; Jay Bornfleth, NWC ext. 2161; Dave Koelsch, NWC ext. 3695; Jim Serpanos, NWC ext. 3340; Bruce Hardy, 446-4131; or Tony Miller, 446-2589.



ENGINEERS' WEEK SPEAKER - William A. Schoneberger (at left), is shown with Jack Northrop, founder of the Northrop Corp., whose contributions to aviation he will discuss at next Friday night's Engineers' Week banquet. Schoneberger is the writer of a biography on the life and career of Northrop.



detector using an avalanche diode works. The detector is mounted for testing in the -Photo by Sam Wyatt

Crystals grown in laboratory . . . (Continued from Page 1)

avalanche photodiode that can be made to operate faster and be more sensitive than Religious gp. purchases quonset hut frameworks

The steel framework for two large quonset huts that, over the years, have been used to house the China Lake bowling alley and a center of social activities old-timers will recall was named the Anchorage, is scheduled to be put to further use in

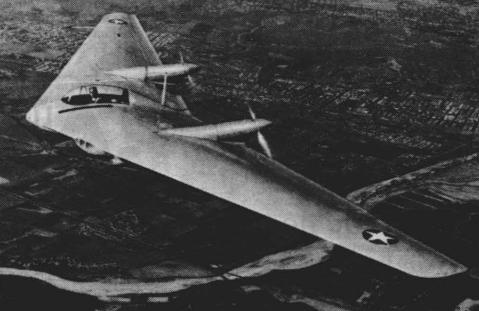
The Ridgecrest Christian Fellowship has acquired the steel framework from the Pratt Equipment Co. of San Juan Capistrano, Calif., the contractor whose bid to demolish the old buildings was accepted.

This non-denominational religious group headed by Allen Higgins, as pastor, plans to use the steel framing from the old quonset. huts in the construction of a church school in Ridgecrest

conventional detectors. When high voltages are applied to these devices, the absorption characteristics of the material change, making the detector "tunable" over a narrow band. Another feature of the device is its ability to amplify the signal internally using the high field avalanche process.

Along with growing materials, NWC researchers have been working in conjunction with scientists at various university and industrial laboratories to develop implantation techniques whereby ionized particle accelerators are used to bombard materials with protons and other ions to change their electrical proper-

Dr. Bottka adds that the work of local Research Department personnel not only results in rapidly providing experimental devices that can be used for specialized military purposes, but also maintains government expertise in a rapidly advancing field of high technology research



FLYING WING — An old film about the Flying Wing, an aircraft developed for the Air Force by the Northrop Corp. after World War II, will be presented during a talk about Jack Northrop at the Engineers' Week banquet.

Assertive Management course slated in March

A two-day course in Assertive Management has been scheduled from 8 a.m. to 4 p.m. at the Training Center on March 11 and 12.

This workshop, which is designed for managers and supervisors who want to extend their assertiveness into the areas of motivating others, will be taught by Dr. Lynn Lacey, a psychologist in Code 094 who recently received his Ph.D. in organizational psychology.

Topics to be covered include styles of communication, and contracting and negotiating for change.

Employees interested in attending this course must submit a training request and authorization form via proper department channels in time for it to reach Code 094 by

Police

reports . . .

A mahogany plaque valued at \$100 is missing from the Commissioned Officers'

Taken in the theft, which occurred sometime between 9 and 11 p.m. on Feb. 4. was the Tailhook Association plaque on which is depicted a Navy aircraft coming in for a landing with its tailhook lowered to catch the arresting gear.

SPEEDING MOTORIST CITED A motorist has been cited into the East Kern Municipal Court in Ridgecrest for speeding, following a pursuit that led China Lake police out the south gate of the Naval Weapons Center and onto East Ridgecrest Boulevard before the alleged offender was

stopped at the intersection of Sunland Drive. The incident occurred at around 9:30 on the evening of Feb. 5. The driver is reported to have been zipping along at speeds between 55 and 60 mph most of the time.

JUVENILES IN TROUBLE

Two juveniles were apprehended last Friday afternoon by an employee in the Navy Exchange, who allegedly observed them attempting to steal a sweater valued

China Lake police were called and the suspects, who will be referred to Kern County Juvenile Probation officers, were released to the custody of their parents.

GOV'T BICYCLE STOLEN

government-owned bicycle was reported stolen last Friday afternoon from the parking lot on the east side of Michelson Laboratory. The missing two-wheeler, which had been left unlocked, is worth \$85.

TOOLBOXES SWIPED

On Saturday afternoon and Sunday night, two Navy enlisted men were the victims of thieves who stole tool boxes and tools from the beds of two pickup trucks left in the Bachelor Enlisted Quarters parking lot.

Sunday night's incident was logged as a grand theft, since the value of the tool box and its contents totalled \$345. Value of the items taken the previous afternoon was reported to be \$151.

VANDALISM REPORTED

A custodian at Murray Junior High School called China Lake police shortly after 12 noon on Sunday to report that four windows in various classrooms were broken sometime between the end of the school day on Friday and mid-day on Sunday. Cost of material and labor to repair the damage is estimated at \$150.

China Lake police were called shortly before noon on Monday to investigate a vandalism incident at a Navy residence on Sykes Circle.

Unknown persons had thrown rocks through a window, causing damage estimated at \$30 to repair.

PETTY THEFT INCIDENTS

Two petty theft reports were filed Monday. One involved a missing government owned adding machine valued at \$50 that was taken from the Computer Science Corp. building in Ridgecrest.

In addition, a nurse at the China Lake Branch Medical Clinic of the Navy Regional Medical Center reported the disappearance from the Medical Clinic of a sweater worth

BICYCLE MISSING

China Lake police were called at noon on Tuesday regarding the theft of a bicycle from the front yard of a home on Young Circle in the Capehart B housing area. The bicycle, which had been left unlocked, was valued at \$80. It was stolen sometime between 6 p.m. Monday and the time it was reported to police.

TEL-MED TAPE OF WEEK

Those whom the beautiful spring weather is luring into outdoor activities and sports might do well to call Tel-Med, 446-3541, first to listen to tapes 1083, "Little League Elbow," and 1101, "Exercising - Warm Up Slowly.'

The tapes may be heard 24 hours a day; there is no charge to the listener for the Tel-Med service.



EASY DOES IT — HM3 Michael Hozey (at the head of the stretcher) is joined by AOAN John Schatz and Lt. P. Darius Frye in carrying one of five "victims" of a simulated T-44 aircraft crash to a search and rescue helicopter waiting to transport him to the NMRC Branch Medical Clinic during a recently held practice -Photos by Don Cornelius



GENTLY, GENTLY - HM3 Vincent Hall and AOAN John Schatz carefully load "victim" AD3 Chris Hannon into the search and rescue helicopter during a recent

Civil Service retirement laws about survivor benefits change

regarding survivor benefits has been amended.

Public Law 96-391, approved Oct. 7, 1980, requires that before a married employee may receive a retirement annuity with no survivor benefits (or reduced survivor

2-day course offered to review materials for CDP examination

planning to take the "Certificate in Data Processing" examination will be offered on Saturday, March 7, and Saturday, April 4.

each day, with a one-hour break for lunch. Instructor for the class is Ed Stroud, a faculty member from California State College Bakersfield.

Fee for the review course is \$75. NWC employees who wish to take the course should submit NWC Form 12410/73 Training Request for approval prior to the class; with approval, NWC employees will be reimbursed the tuition fee. Non-government students are asked to telephone Kit Driscoll, NWC ext. 2648, to register their intent to enroll.

Reference material that would be helpful for additional study is contained in two books, "1001 Questions and Answers To Help You Prepare for the CDP Exam," Vols. 1 and 2, by K. W. Lord. These may be purchased at The Book Store, 216 Balsam Ave.,

The Civil Service Retirement Law benefits), the Office of Personnel Management (OPM) must receive either (1) proof that the spouse is aware that the employee elected an annuity with no survivor benefit (or reduced survivor benefit); or (2) the spouse's mailing address in order for OPM to attempt to notify the spouse about the loss of or reduction in survivor

In order to comply with the above, OPM will accept a signed and witnessed declaration from the spouse, to be submitted with the retirement application, in which the spouse acknowledges his/her in time for it to reach Code 094 by Feb. 20. understanding of the employee's election of no survivor (or reduced survivor) benefits. The class will run from 8 a.m. until 5 p.m. This statement must be witnessed by someone other than the employee.

obtain the spouse's signature acknowledging the above, OPM will require the employee to submit the spouse's last known mailing address. OPM will then send the spouse an explanatory letter by certified mail with return receipt requested and delivery restricted to the addressee.

If the retiring employee fails to cooperate in furnishing either (1) the spouse's witspouse's last known mailing address, OPM will process the retirement application with the full reduction for survivor annuity benefits.

Questions regarding the above should be



- AOAN John Schatz (holding a simulated solution container) watches as HM3 Vincent Hall carefully moves one of the "victims" of an aircraft crash. The search and rescue practice mission involved finding the "victims" of a simulated crash on B Mountain, getting them ready to be transported to the NMRC Branch Medical Clinic by helicopter, and transporting

Resource management . . .

Quite to the contrary, the NWC policy on water calls for systematically phasing down the large-scale pumping of groundwater in the mid-valley area in a time frame that is consistent with energy costs and constraints, efficient usage of existing pumping facilities, and the availability of new wells and pumps in other areas of NWC that are better suited for future pumping.

When funding is available, future water production facilities for the Naval Weapons Center will be constructed generally in a zone parallel to, and approximately a halfmile inside the west boundary of NWC in order to capture groundwater that is now lost by evaporative discharge around the playa that drains into China (dry) Lake.

The NWC policy on water also makes mention of placing any new wells at intervals not closer than one-half mile, and limiting their depth and size. In the future, as needs dictate, the inflow from the Argus and Coso Mountains could be captured and used where feasible, it is added.

Graduate level class on laser technology slated March 23-27

A graduate level course on lase technology will be taught the week of March 23 through 27 at the Training Center by Dr. Richard S. Hughes, a former NWC Research Department employee. The class will run from 8 a.m. to 4 p.m. daily.

Course material will include quantum mechanics and quantum theory of radiation, atomic physics, general description and theory of lasers, solid state lasers, liquid lasers, gas lasers, spatial and temporal characteristics of solid state lasers, and laser applications.

Employees wishing to attend this class must submit a training request and authorization form via department channels

4.4 percent cost of living increase due In the case where the employee cannot annuitants April 1

The Office of Personnel Management has announced that a cost-of-living (COL) increase of 4.4 percent in annuities will become effective on March 1, 1981. This increase will be reflected in the April 1, 1981 annuity checks.

In accordance with the recent changes in the Civil Service retirement laws, the actual nessed acknowledgement of less than percentage to be received by an annuitant is maximum or no survivor benefits or (2) the subject to pro rating. An annuitant will be entitled to one-sixth of the 4.4 percent increase for each month that he or she has been retired since the last COL adjustment on Sept. 1, 1980.

Annuitants who have questions or wish directed to Nancy Cleland, phone NWC ext. additional information should call Nancy Cleland at NWC ext. 2018 or 2592.

This same NWC policy on water also opens the way for systematically and efficiently spreading the production facilities of the major water pumpers in the Indian Wells Valley over the more desirable areas of the valley. Along this vein, the Center will favorably entertain proposals from existing major municipal and industrial water pumpers to expand their pumping facilities by making Navy land for well sites and transmission lines available to them inside NCW's western boundaries to the north of the town of Inyokern.

By moving the local area's major water pumping operations from its present midvalley location to the area near Inyokern, there will be far less detrimental effect on the levels of water now serving homeowners

There also is support in the NWC policy on water for an extensive program directed toward collection of additional data pertaining to the groundwater recharge, discharge, storage, flow and quality as it pertains to the Indian Wells Valley. It is proposed that the responsibility for funding this program be shared by all major water producers on an equitable basis.

Auction of surplus government property scheduled Feb. 24

An auction of surplus government property will take place on Tuesday, Feb. 24, starting at 9 a.m. at the Community

More than 180 items will be offered for sale during the auction. These include IBM electric typewriters, video recorders, oscilloscopes, voltmeters, cameras, vehicle parts, ice machines, gas ranges, generator sets, a tractor, arc welder, polishing machine, house trailers, and 15,000 lb. of scrap wood.

Prospective bidders are invited to look over the items up for sale. They can be seen on weekdays (starting today) from 8 a.m. to 3 p.m. at the Defense Property Disposal Office in Warehouse 14.

Because this office is located within the interior security fencing at NWC, those who wish to inspect the items up for sale must stop at the Center's main gate and obtain a pass that will permit them to drive to the

Registration of bidders will begin at 8 a.m. on Feb. 24 at the Community Center. Those wishing to make a purchase must be present at the auction and registered to bid, since bids offered by mail cannot be ac-

Items that are purchased may be removed on the day of the auction provided that full payment is made. Personal checks will be accepted.

Successful bidders will have until March 3 to pay for and remove property before storage charges are assessed.