

Tickets for museum lunches go on sale Wednesday morning

Tickets for the 1980 Maturango Museum luncheons will go on sale at 10 a.m. on Wednesday, Jan. 16, in the Community Center, with sales continuing until all tickets are sold out. A ticket for the series of five luncheons costs \$25, including sales tax.

Ticket series purchasers may pick up tickets for others in their table group providing that they have checks or money orders from these people.

Luncheons are held in the Community Center on the first Monday of each month (except April, when the lunch will be on April 14 because of Easter vacation). There are two seatings: one at 11:30 a.m., which enables NWC employees to eat and return to work within an hour, and another seating at 12:30 p.m.

The lunches serve to provide a gourmet-type occasion for enjoyment as well as to raise funds for the Maturango Museum building fund. Sue Byrd, who is in charge of the Museum Luncheons Committee, supervises the food preparation and serving, which is all done by volunteers.

The luncheons were begun in 1973 by Pat LaBerge, wife of Dr. Walter B. LaBerge, who was then NWC Technical Director. From 1973 to 1975 the luncheons were held weekly during the school year; menus and recipes used at that time have been compiled into the Maturango Museum Luncheons Cookbook, which is now in its fourth printing and can be purchased at the Maturango Museum. Recipes from more recent series of lunches will be available later this year.

At the Feb. 4 lunch the all-time favorite, chile rellenos, will be featured, accompanied by taco salad and corn muffins. These will be the only menu items repeated from previous years. Dessert for the first lunch will be Amaretto pie.

Shrimp and mushroom elegants with parsleyed rice, pineapple chutney salad, hot homemade rolls, and cherry walnut torte will be served on March 3.

The menu for April 14 includes cannelloni crepes, vegetables with winter haven dressing, hot rolls, and mocha chiffon pie in praline crust, while on May 5 the entree will be ham quiche, followed by green salad with cucumber dressing, homemade rolls, and mocha apple cake.

The final lunch of the series on June 2 will feature a hot weather meal of cold avocado soup with condiments, crab ensalada, hot rolls, and lemon torte.

Girl scouts taking orders for cookies; sale starts today

Starting today and continuing through Monday, Jan. 21, local Girl Scouts will be circulating throughout the community taking orders during the annual Girl Scout cookie sale.

Proceeds from this yearly fund-raising event have been earmarked by the Joshua Tree Council, Girl Scouts of America, for use in improving the camping program offered at Camp Mt. Meadows in the Greenhorn Mountains just west of Lake Isabella.

Seven varieties of cookies are available — all priced at \$1.50 per box. In addition to being boxed, the cookies are sealed in airtight wrapping and can be frozen for enjoyment at a later time, Girl Scout neighborhood leaders report.

Cookies ordered between now and Jan. 21 will be delivered to purchasers in late February or early March. The varieties available include chocolate and vanilla creams, mint chocolate, country oats and nut crisps, shortbread sprinkled with sugar, Savannahs (with peanut butter centers), and cheddarite cheese crackers.

Additional information can be obtained by calling Kris Zych, chairman of the Girl Scout cookie sale, phone 446-6270, who also will take telephone orders for the cookies.

Cuban-American pianist to present concert Jan. 17 at Center theater

Santiago Rodriguez, a young Cuban-American pianist, will be the featured artist for the Indian Wells Valley Concert Association's third program of the 1979-80 season, which will be presented next Thursday, Jan. 17, starting at 7:30 p.m. in the Center theater.

Rodriguez was born in Cuba in 1952 and began his study of the piano when he was 5 years old. He came to the United States in 1960, settling in New Orleans, and one year later (at the age of 9) made his debut with the New Orleans Symphony.

Later he attended the Loyola School of Music and was graduated with high honors from the University of Texas in 1974.



Santiago Rodriguez

Subsequently, he received his Master of Music degree from Juilliard School in New York City in 1977, where he was a scholarship student.

A prizewinner in ten national competitions, Rodriguez has also won many honors in international competitions, including semifinalist status in the Van Cliburn Competition (1973), the Tchaikovsky Competition in Moscow (1974), and first prize in the Maryland International Competition (1975).

Most recently, he was one of the five unranked finalists in the International Leventritt Competition in 1976.

Rodriguez now has more than 40 concertos and a large number of solo works in

his repertoire. During his concert here next Thursday night, he will be playing a program of music by W. A. Mozart, Claude Debussy, Franz Schubert, Felicity Shelness, Sergei Rachmaninoff and Frederic Chopin.

His professional career has included some 50 orchestral engagements and Rodriguez has presented over 100 solo recitals throughout North and South America — winning consistent acclaim from both the press and the public.

To Play in Bakersfield

His next orchestral engagement will be with the Kern Philharmonic Orchestra in Bakersfield on Sunday afternoon, Jan. 20.

In addition to maintaining an active career of concertizing, Rodriguez holds the position of artist-in-residence at the University of Missouri in Columbia. He also conducts educational programs in conjunction with many of his concert performances and will be doing so here.

Next Friday, Jan. 18, Rodriguez will present a combination lecture-demonstration and master class from 10 a.m. to 12 noon in the Burroughs High School lecture center.

This program, which is intended primarily for piano students and others having an interest in the piano and its music, is open to the public at no charge and is provided as an educational service by the Indian Wells Valley Concert Association.

Those who are able to attend only part of this 2-hour session are asked to time their arrival or departure during the break from 11 to 11:05 a.m.

Tickets on Sale

Tickets to the Rodriguez concert are priced at \$5 each for general admission, or \$3 for enlisted military personnel and all those under 21 or over 65 years of age. These tickets can be purchased in advance at the following locations in Ridgecrest: The Music Man, Sports Etc., Medical Arts Pharmacy, The Gift Mart, Lilly's Dress Shop, and at the Center Pharmacy (next to the Drummond Medical Center). They also are on sale at the Maturango Museum from 2 to 5 p.m.

In addition, the box office at the Center theater will be open for the sale of tickets on the day of the concert from 4:45 to 7:15 p.m.

Burroughs stage bands schedule program of big band sound music

The big band sound will roll forth at the Burroughs High School lecture center on Tuesday evening at 7:30 when the Burroughs stage bands perform. General admission is \$1, and tickets may be purchased at the door prior to the concert.

Burroughs Stage Band No. 1 is composed mainly of high school juniors and seniors. This group was the sweepstakes winner at the Wasco Jazz Festival, and also performed at the Reno Jazz Festival.

Stage Band No. 1 will be applying the big band sound to blues, ballads, jazz, and rock music. Among numbers to be played are "Ain't No Way," "Alive," "Bright Moments," "Catherine," "Skin One," "Tall Cotton," "Tambo," "Tribute to Miller," and "Mr. Smooth."

Featured soloists in this band are Jim Hall, alto and soprano saxophone; Bill Cabe, tenor saxophone; Bruce Rockwell, trombone; Dan Burdick, Curt Niccum, and Jeff Carson, trumpets; and Todd Erickson and James Long, drums.

Stage Band No. 2 is a newly formed group composed of students from Burroughs and from Murray and Monroe Junior High Schools. They will also be playing a variety of big band music including such hits as "Because of Joanie," "Brass Bugaloo," "Off the Wall," "Straight Ahead," "Super-Duper Dude," "Traces," and "Yellow Brick Freeway."

Featured soloists in this group and the

instruments they play, are Mark Fulmer, tenor saxophone; Cynthia Kaye, alto saxophone; Tony Haun, trombone; and Joe Victor, guitar.



WORTHWHILE SUGGESTION — Debbie Kenney, who is now working in the Commander's office, is congratulated by Capt. W. B. Haff, NWC Commander, on receiving a \$200 award for a Beneficial Suggestion. The award was granted for a secretarial handbook which she developed for secretaries in the Weapons Department. — Photo by Ron Allen

MOVIES

Regular starting time—7 p.m.

FRIDAY, MONDAY JAN. 11, 14
"BEYOND THE POSEIDON ADVENTURE"
 Starring
 Michael Caine and Salley Fields
 (Action-drama, rated PG, 115 min.)

SATURDAY JAN. 12
"NIGHTWING"
 Starring
 Nick Mancuso and David Warner

SUNDAY JAN. 13
"F.I.S.T."
 Starring
 Sylvester Stallone and Rod Steiger
 (Drama, rated PG, 131 min.)

WEDNESDAY JAN. 16
"HURRICANE"
 Starring
 Jason Robards and Mia Farrow
 (Adventure drama, rated PG, 120 min.)

THURSDAY JAN. 17
 Indian Wells Valley Concert Ass'n
 Presents
SANTIAGO RODRIGUEZ, PIANIST
 7:30 p.m.

FRIDAY JAN. 18
"MANHATTAN"
 Starring
 Woody Allen and Diane Keaton
 (Comedy, rated R, 96 min.)

THE CLUB BEAT

Commissioned Officers' Mess

The Commissioned Officers' Mess will start off the new year with a special Membership Night tomorrow at 6:30 p.m.

The theme for this occasion will be "Night of 60's," featuring music and costumes from that era. Prizes will be awarded for the best attired and the best couple on the dance floor.

Recorded music will be provided by Bill Coy and his Blue Jeans Disco, and dancing will begin at 8 p.m., and continue until midnight.

A buffet dinner consisting of baron of beef, green salad, baked potato, and vegetable will be served from 6:30 to 9 o'clock.

The price for this special night is \$4 for members and their spouses and \$5 for guests.

Reservations for dining dancing or dining only must be made prior to 5 p.m. today. Tickets will not be sold at the door.

Emanuel Stavru, manager of the COM, wishes to remind members of the new weekday dinner hours. They are from 5 to 9 p.m., Tuesday through Thursday; and from 5 to 10 p.m. on Friday nights.

For members who wish to have their dinner early (from 5 to 6 p.m.), the COM will include a glass of wine for one, half carafe for two, and a full carafe for three or four with a full course dinner.

Remember casual dress in good taste is the acceptable dress code at the COM — coat and tie are not required.

U.S. Government Printing Office: 1980—No. 1008

From: _____

PLACE STAMP HERE

To: _____



Capt. William B. Haff

Capt. Haff to speak at annual business outlook conference

Capt. William B. Haff, NWC Commander, will join a panel of 10 speakers who will lead off the 22nd annual Kern County Business Outlook Conference. His topic will be "The Naval Weapons Center's Importance to the Defense of the Free World and Its Impact on Kern County."

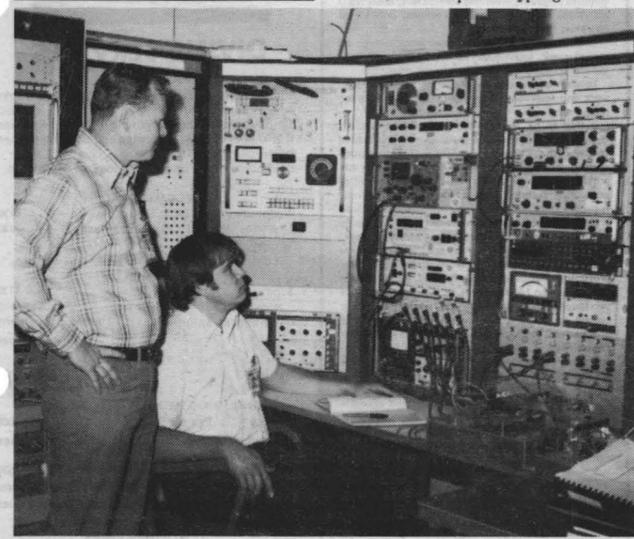
The Center Commander will join top business and industry leaders, chosen for their expertise in key segments of the economy, who will explore Kern County's economic fortunes for 1980 and beyond during the Board of Trade-sponsored conference that will get underway at 9 a.m. on Wednesday, Jan. 16, in the Bakersfield Civic Auditorium.

Included among the speakers are experts in such fields as agriculture, oil and minerals, real estate and construction, tourism, retailing, and aerospace.

Another of the military speakers on the panel will be Major General Philip J. Conley, Jr., Commander of the Air Force Flight Test Center at Edwards Air Force Base. Maj. Gen. Conley will present a talk about the community impact of Edwards AFB.

Keynote speaker during the luncheon portion of the conference will be Charles Wohlstetter, chairman of the board and chief executive officer of the Continental Telephone Corp., New York City. A leading spokesman for the telecommunications industry, Wohlstetter will speak on the topic "The Eighties — a Challenge for Business" as he presents his views on the national

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TEST EQUIPMENT — Laboratory equipment developed to aid in testing secure telemetry encrypting and decrypting devices is examined by (l. to r.) Randy Gamble and Tim Cox. Random pulses are sent by the encryption device airborne on missiles or aircraft; ground equipment then derandomizes these pulses from the telemetry data received.

nwc rocketeer

NWC involved in development of secure telemetry device for weapons systems

Naval Weapons Center
China Lake
California

January 11, 1980
Vol. XXXV, No. 2

Information spread through small towns rapidly because anyone could listen in on a party line. Airborne telemetry, until recently, has been like a party line because information transmitted could be picked up and understood by anyone who had the right equipment to listen in.

The triservice-sponsored Secure Telemetry (STM) Certification Program will demonstrate that tactical missiles and aircraft can transmit telemetry signals in such a way that only the proper "ears" can hear and understand the data.

The Navy asked the National Security Agency (which is specifically tasked to develop encryptors and decryptors) to build such a device that could be carried on a tactical missile as small as Sidewinder.

Purpose of STM Program

This piece of hardware is not the end product of the STM program. STM aims to develop a capability to encrypt the telemetry rather than just to build a piece of hardware to do so.

The capability is defined as developing communications security equipment certified for Navy use, including mounting encrypting devices on weapon systems and decrypting devices at telemetry receiving sites, and documenting both with an applications manual that can be used by designers and developers to incorporate such secure telemetry into weapons systems and sites.

Needed is an encryptor small enough and light enough not to affect the flight performance or reliability of a missile, and ground systems capable of decrypting the messages received.

Telemetry signals are typically sent by pulse code modulation (PCM), by pulse amplitude modulation (PAM), or by frequency modulation (FM). PCM can be much more easily encrypted than PAM or FM because pulses are already digitized: a pulse is a 1, and the non-pulse is a 0. An encryptor randomizes existing pulses, and the decryptor derandomizes the received pulse coded data.

An NSA-developed encrypting device has



PREFLIGHT — John Tate (l.) and Tim Cox check out the pod developed and fabricated by NWC for use in determining whether ground ranges can receive secure telemetry data.

been sent to NWC for evaluation, using an AIM-9 Sidewinder missile as a test bed. A firing has been made at China Lake with this device and missile, and one is scheduled to be made at Eglin Air Force Base, Valparaiso, Fla.

NWC has developed and fabricated a pod that can be used for laboratory and field tests (mounted on an aircraft) in order to determine the capability of RDT&E ranges to receive secure telemetry. Work with the aircraft carrying such a pod is slated at the

Pacific Missile Test Center, Point Mugu, Calif., and the Naval Air Test Center, Patuxent River, Md. Use of this pod will also give these test ranges practice in working with simulated encrypted transmissions.

AIR-06, Assistant Commander for Test and Evaluation of the Naval Air Systems Command, delegated evaluation of the NSA-developed equipment to AIR-630, the NAVAIR Target and Range Systems

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Top sailors of '79 to be guests at Bluejacket of Year banquet

Plans are well under way for the 11th annual Bluejacket of the Year banquet—an event sponsored by the Indian Wells Valley Council of the Navy League that will be held on the evening of Saturday, Jan. 19, at the Enlisted Mess.

A selection committee composed of nine chief petty officers is responsible for selecting the award winner from a group of nine enlisted personnel who were singled out as Bluejackets or Sailors of the Month during 1979.

Monthly award winners who have been transferred to another duty station, discharged or promoted to chief are not eligible for consideration in the Bluejacket of the Year selection process.

Two 1979 Bluejackets of the Month were promoted to chief petty officer. Along with other candidates they will be guests at the upcoming banquet, but are not in the running for this annual honor. They are MSC Mario Estrada and ATC John P. Kasimatis.

The eight enlisted men and one enlisted woman who are the 1979 Bluejacket of the Year candidates, are YN3 Sharon Gamble, AD1 Gary Harper, A03 Timothy Jenkins, and A03 William Reed, all of Air Test and Evaluation Squadron Five (VX-5) and AD1 Kent Gibson, AME3 David Dimitrio, ABH1 John Kennard, AMS3 Gerald Stallworth, and AK1 John Enriquez, all of NWC.

The Bluejacket of the Year selection board, headed by OSCS Gary Gillen, Senior Chief Petty Officer of the Command, met this past Tuesday to select the winner, but

the decision will be kept secret until announced during the banquet on Jan. 19.

Those who served with OSCS Gillen on the selection board are Master Chief Jim Tucker, aircraft maintenance chief; Senior Chief Dan Brockway, NWC Command career counselor; Senior Chief Dennis Hoelzle, fire control chief assigned to the Weapons Control Branch (Code 3921); Senior Chief John Smith, VX-5's Senior Chief Petty Officer of the Command; Master Chief Earl Conro, VX-5 maintenance control chief; and Chief Donald Derryberry, chief-in-charge of VX-5 data processing.

One of the factors in the selection of the Bluejacket of the Year was the sailor's answers to a variety of questions while being interviewed by the selection committee. Other important considerations were military bearing, appearance, conduct, job performance, and supervisor's recommendation.

Tickets for the Jan. 19 banquet, priced at \$8.50 per person for the beef and turkey buffet dinner that is planned, can be ordered by sending a check to Navy League, P.O. Box 1297, Ridgecrest, or ordered by calling any of the following Navy League officers or directors:

Tom Andress, ph. 446-5763 or 446-5914; Irene Rainey, 377-4276; Loren Kinne, 446-5541, or Al and Mary Alvarado, 375-1996 or 375-2913.

Sunday, Jan. 13, is the deadline for ordering tickets to the Bluejacket of the Year banquet.

Supervisory Interdisciplinary Position: Electronics Engineer, Mechanical Engineer, Aerospace Engineer, Physicist, GS-855/830/861/1310-12 or 13, PD No. 796010E, Code 6632 — This position is that of head, Surface Projects Office, Test and Evaluation Directorate. The Surface Projects Office is responsible for technical management, design, coordination, supervision, evaluation and documentation of all surface and ground launched and track-fired test programs at NWC. The incumbent directs both the financial and personnel resources of the office and participates with NWC development and test and evaluation managers in formulating the scope and direction of the test programs. GS-13 pending classification approval. Previous applicants automatically considered. **Job Relevant Criteria:** Knowledge of test range facilities and instrumentation; knowledge of ground launched weapon systems or equivalent; knowledge of ordnance safety procedures; ability to supervise; knowledge of test engineering procedures.

Electronics Technician, GS-856-9, 10, or 11, PD No. 788295N, Code 4241 — This position is located in the Telemetry Systems Branch of the Range Department. The primary function of the branch is to provide engineering support for the design, development, fabrication, engineering documentation, test, and evaluation of telemetry systems and components for application to weapons, aircraft, and ground instrumentation. The incumbent will assist in the design and development of environmental instrumentation of telemetry systems and associated instrumentation in current usage by the branch. He/she will also conduct validation tests of telemetry design proposals. **Job Relevant Criteria:** Knowledge of electronic systems operation, test, and maintenance; knowledge of solid state devices; ability to work with others.

Supervisory Management Analyst, GS-343-13, PD No. 790860E, Code 0824 — This position is head, Plans and Analysis Branch, which is located in the Management Division of the Office of Finance and Management. The incumbent, in collaboration with the head, Management Division, plays a major role in planning the policy, concepts, content of and resources for the management engineering, management systems, and the Research and Development Management Planning programs of the Center. In addition, the incumbent provides leadership, guidance and supervision for approximately 14 professional Management Budget and Computer Systems Analysts involved in the execution of the major oral planning and analysis programs. **Job Relevant Criteria:** Ability to supervise; ability to make effective oral presentations; ability to prepare clear and concise written communications; ability to deal tactfully and effectively with others; ability to analyze complex problems. Applications from status eligibles will be accepted.

Fiscal Accounting Clerk, GS-501-5/6, PD No. 790867B, Code 0860 — This position is located in the Disbursing Office, Accounting and Disbursing Division, Office of Finance and Management. The incumbent serves as a deputy to the disbursing officer. Responsibilities include receiving cash and checks for amounts due the U.S. Government, preparing for deposit all public funds collected, preparing deposits for deposit, performing non-competitive qualification ratings, processes classification actions and maintains associated files and records. **Job Relevant Criteria:** Ability to meet deadlines under pressure; ability to work independently; ability to work with figures; knowledge of accounting or budget clerical procedures.

File applications for the above with Teresa Watson, Bldg. 34, Rm. 208, Ph. 2474.

Personnel Clerk (Typing), GS-203-4/5 or Clerk-Typist, GS-323-3/4, PD Nos. 7445015/700007, Code 094, 097 — This position is located in one of the Personnel Service Divisions of the Personnel Department. Incumbent performs the following duties for a major department(s): Processes all actions affecting appointments, promotions, pay adjustments, separations, retirements, etc.; performs non-competitive qualification ratings, processes classification actions and maintains associated files and records. **Job Relevant Criteria:** Ability to deal tactfully and effectively with all levels of NWC employees; ability to work under stress and pressure; ability to plan, organize, and accomplish work independently; ability to perform a variety of clerical functions; ability to type accurately and efficiently; ability to comprehend and apply regulatory information. Promotion potential to GS-6.

Interdisciplinary Position (Aerospace Engineer, Mathematician, Physicist), GS-861, 1520, 1310-12, PD No. 793912E, Code 3915 — This position is located in the Air-to-Surface Branch, which provides simulation and analysis support for the design, development and testing of A-5 missile systems. This branch is currently responsible for the development of the real-time hardware in the loop simulation capability of the HARPOON Simulation Laboratory facility at NWC. The incumbent's primary duties and responsibilities will be associated with the design, fabrication, and installation of both the hardware and software sub-systems associated with this laboratory. Secondary duties include operation and utilization of currently existing simulation software in support of the HARPOON Improvement Program and the HARPOON Production Program. **Job Relevant Criteria:** Thorough familiarity with sophisticated digital six-degree-of-freedom missile simulation technology including mathematical modeling; working command of higher language and assembly language programming; knowledge of hardware software interfacing; un-

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment Wage and Classification Division, Code 092, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. 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 094 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a 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-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

derstanding of control theory, propulsion systems, aerodynamics, and autopilots; capability of conducting post flight test analysis and williness to travel extensively. Previous applicants need not apply.

Secretary (Typing), GS-318-4, PD No. 793912N, Code 3954 — This position is in the RF Systems Branch, RF Division, Weapons Department. The incumbent provides secretarial support to the RF Systems Branch and to the Advanced Medium-Range Air-to-Air Missile Systems Engineer. The incumbent processes screens mail, makes calls, and visitors; maintains files; reviews correspondence for correctness/conformance; prepares timecards, travel orders, itineraries and clearances, purchase requests, etc.; types Branch and Systems Engineer correspondence, reports, etc. **Job Relevant Criteria:** Must be a proficient typist; knowledge of Center/Naval clerical procedures; ability to work well with others and to organize clerical tasks; knowledge of grammar, spelling, proper formats, etc. This is a temporary position, not to exceed one year; it may lead to a permanent assignment. **File applications for the above with Kitty Berry, Bldg. 34, Rm. 206, Ph. 2723.**

Purchasing agent, GS-1105-5/6, PD No. 7025012N, Code 2322 — This position is located in the Purchase Branch, Contracts Division, Supply Department. Incumbent is responsible for a wide range of purchases of standard commercial services as well as some special items. Quotations or offers are generally solicited by telephone. Incumbent is responsible to assure that the contract file contains adequate documentation to justify purchase actions. **Job Relevant Criteria:** Knowledge of small purchase methods and regulations; ability to work without close supervision; ability to deal effectively with others; ability to meet deadlines under pressure.

Mail and File Clerk, GS-305-3/4, PD No. 793202N, Code 23 — Applications will be accepted from status eligibles. This position is located in the Support Center of the Fuze and Sensors Department. Incumbent serves as mail and file clerk and custody control point for the Fuze and Sensors Department. Duties include: receives and processes incoming and outgoing mail and messages; reads, studies, sorts and distributes incoming mail and messages; responsible for receipt, distribution and accountability of classified documents; maintains department files. **Job Relevant Criteria:** Knowledge of agency and U.S. Postal Service regulations; knowledge of security regulations and procedures; knowledge of filing procedures; knowledge of records management procedure and practices; knowledge of department and Center organizations. **File applications for the above with Susie Cross, Bldg. 34, Rm. 208, Ph. 2371.**

Sheet and Plate Metal Worker, WG-3801-11, JD No. 530N, Code 24411 — Position is located in the Metal Shop, Public Works Department. Incumbent is responsible for the layout, fabrication, assembly, repair and installation of equipment made from various types of ferrous and non ferrous metal and alloys. Performs electric arc welding, oxyacetylene welding, radiograph machine cutting. Uses a wide variety of hand tools and power machines for such processes as bending, forming, fitting and welding. Works with many different commercial stock shapes and forms ranging from light gauges to heavy steel plate. **Job Relevant Criteria:** Knowledge of materials, guides, etc.; computing and trade mathematics; layout and pattern development; ability to cut materials pertinent to the trade; ability to braze, solder, spot weld and gas weld; ability to use hand and power equipment (braking, forming, fastening, etc.); reading blueprints; ability to do sheet and plate metal work without more than normal supervision.

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News Stories — Tuesday, 4:30 p.m., Tuesday, 11:30 a.m. 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 PPP-R P-35, revised January 1974. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense. Information in The Rocketeer is authorized for public release by the Office of the Commander, Code 003. **Phones: 3354, 3355**

Relevant Criteria: Knowledge of materials, guides, etc.; computing and trade mathematics; layout and pattern development; ability to cut materials pertinent to the trade; ability to braze, solder, spot weld and gas weld; ability to use hand and power equipment (braking, forming, fastening, etc.); reading blueprints; ability to do sheet and plate metal work without more than normal supervision.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2032.

Electrician, WG-2805-8, JD 316N, Code 24425 — This position is in the Maintenance-Utilities Division of the Public Works Department. The incumbent plans proposed installations from blueprints, sketches and specifications, cuts pipes to size, threads, assembles, and fuses to building framework, and pulls wire through conduit. Lays out, assembles, installs, and tests electrical fixtures, apparatus, control equipment, and wiring used in the alarm, radio communication, light, and power systems of buildings. Splices wires, cables, and auxiliary equipment, replaces defective wiring, overhauls and repairs motor performs non-scientific electronics work of experimental nature, maintains and repairs electrical and electronic equipment in boiler plants. **Job Relevant Criteria:** Knowledge of electrical theory; use of electrical test equipment; knowledge of electrical equipment and technical practices; electrical drawings; hand and power tools; safety and dexterity; ability to do the work of the position without more than normal supervision.

Boiler Plant Operator, WG-5402-10, JD No. 332, Code 24454 — Position is located in the Maintenance and Utilities Division, Public Works Department. Incumbent will control the operation of two to four oil or gas fired steam boilers in a central plant. Boilers are operated at constant pressures and temperatures for industrial processes and heating purposes. Also operates other steam powered equipment. The work requires climbing of stairs and ladders up to 30 ft., and lifting of items weighing up to 100 lb. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision; technical practices; hand tools and measuring instruments; ability to understand and apply instructions and specifications; ability to work safely.

File applications for the above with Lucy Lambert, Bldg. 34, Rm. 212, Ph. 2032.

Electrical Engineering Technician, GS-802-9, PD No. 8622001, Code 3254 — The position is located in Process Engineering Branch, Process Systems Division, Ordnance Systems Department. Incumbent is assigned projects for

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Training opportunities

The Navy Scientist Training and Exchange Program (NSTEP) is designed to provide long term training opportunities for NWC employees grades GS-9 and higher. These training assignments are located in the Washington, D.C. area. The program is used for cross training and development of key personnel at the middle, senior and executive levels. The training varies from 6 months to 2 years depending on the assignment. The employee selected will go on the training assignment at his current grade level and position description. Applicants must be at the grade level listed in the notice. For information or to apply for the below listed training opportunities, contact Len Gulick, Code 035, Ext. 3793.

Electronics Engineer, GS-855-13, located in the Naval Air Systems Command, Mission Avionics Division (AIR 549), Washington, D.C. Developmental Opportunity: The engineer selected will serve an eight month training assignment which will include on-the-job training in Systems Command functions, roles, and procedures in the planning and management of a major systems acquisition program. The training position is in the Weapons and Tactical Control Branch (AIR 549) of the Mission Avionics Division (AIR 549) as a project engineer for development of the reconnaissance radar system for the RFK program. The incumbent will be assigned duties that will include: coordinate with a NAVAIR project engineer or radar development and acquisition. The immediate supervisor will be Head of the Weapons and Tactical Control Branch. **Training Objectives:** The primary objective of this developmental assignment is to increase technical expertise while broadening management skills and knowledge. The incumbent will gain a broad range of operations of a major program office in NAVAIR. Specific training objectives of this developmental assignment are:

To gain a high level of technical management experience in the development, test and evaluation of the reconnaissance version of the APG-65 radar. To gain experience in coordinating and solving complex problems involving contractors, Navy R&D activities, other headquarters offices, and Naval operating forces.

To gain headquarters-level experience in devising management techniques which will insure that quality products are provided to the fleet. To gain experience in preparing statements of work, technical performance specifications for major contracts.

Duties to be Performed: Manage the system engineering effort of the APG-65 reconnaissance version of the F-18 radar weapons system to include development and testing leading to production approvals and maintaining engineering control of the production system. Advise and assess current tactical reconnaissance capability including RA-5C and RF-8G aircraft and achieve better performance utilizing a modified APG-65 with a Synthetic Aperture Radar mode. Prepare performance requirements and development specification for procurement of the modified APG-65. Establish test and evaluation requirements in the reconnaissance version of the APG-65, monitor the test activities and review test results and relate these to systems alternatives, costs, and schedules. Review potential capability of various contractors and subcontractors to conduct research and development of critical aspects of the reconnaissance version of the APG-65 radar system. 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Recreation Roundup

Registration open for new series of swim classes

Registration is now being taken at the Recreation Coordination Office, located next door to the Center gym, for swimming classes to be taught at the indoor pool by Adrienne Swinford.

One six-week series of classes is for children from 6 months to 4 years of age. It is scheduled on Tuesdays, starting at 9:30 a.m., and will get underway on Jan. 22. There is a registration fee of \$7.50 for the six lessons.

Also planned are swimming lessons for youngsters from 4 to 9 years of age. A screening session (in swim suits) for students in this class will be held at 10:30 a.m. on Saturday, Jan. 26, and the first of six Saturday class sessions will be held on Feb. 2. The registration fee for this class is \$10.

Another class for children from 6 months to 4 years of age will be held at 11 a.m. on Saturdays, beginning Jan. 26. The registration fee is \$7.50 for this series of six lessons.

In addition, Saturday, Jan. 26, is the starting date for a swimming class for adults that will begin at 11:30 a.m. There is a charge of \$10 for six 30-min. lessons.

Women's Exercise Class

An exercise class for women, which is held on Mondays from 6 to 9 p.m. at the Center gym, will be resumed on Jan. 14 following a break for the Christmas-New Year's holiday period.

This class is taught by Kelly Moulton, and there is a charge of \$1 per night payable to the gym attendant.

Free Skating for Military

Beginning on Jan. 15 and continuing each Tuesday thereafter, the roller skating rink at the youth gym will be open free of charge to military personnel from 6:30 to 8:30 p.m.

(Continued on Page 7)

New approach to teaching tennis classes planned

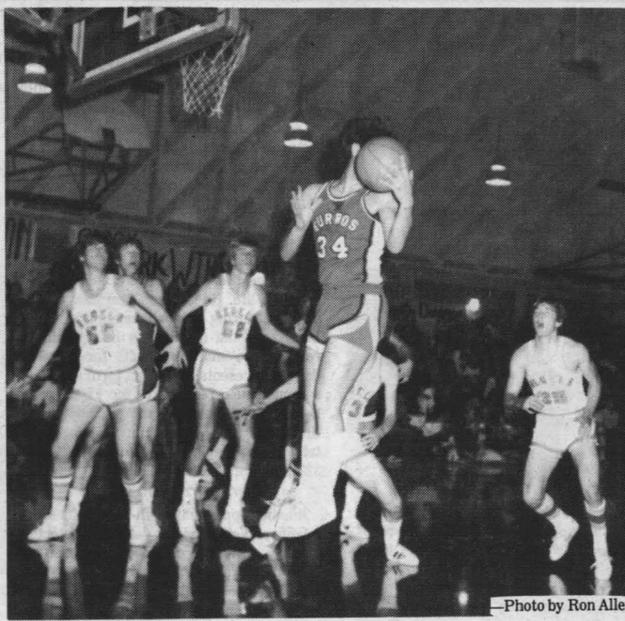
A new approach to tennis instruction will be used by Fred Hagist during tennis classes for beginners and intermediates that will begin on Tuesday, Jan. 15, at the China Lake tennis courts.

Hagist will be in charge of classes that will be conducted on Tuesdays, Wednesdays and Thursdays, from 10 to 11 a.m., and from 5 to 6 p.m. The instruction will continue through Feb. 21, and participants may register for 6, 12 or 18 lessons. They also may attend class sessions at the times and on the days of the week most convenient for them.

Early preparation is the mainstay of the tennis lessons taught by Hagist, who will be stressing three basic principles — stretching, body pivot and foot work. In addition, students will have the opportunity to compete in tennis matches at an early stage in their lessons.

Registration is being handled at the Recreation Coordination Office in the Special Service Building, located next door to the Center gym. There is a fee of \$9 for six lessons, \$17 for 12 lessons, and \$25 for 18 lessons.

Additional information can be obtained by calling Hagist at 375-9243 before 9:30 a.m. or after 5:30 p.m., or from the Recreation Coordination Office, phone NWC ext. 1010.



"MR. BASKETBALL" — Juxtaposition of the basketball between his face and the camera doesn't hide the fact that the Burroughs High varsity player with the ball is Bobby Wright (No. 34), a starting forward for the BHS boys' basketball team in the league season opener against Quartz Hill. The Burros won the game handsily by a final score of 82-48, and Wright tallied 8 points in the victory. Quartz Hill Rebels visible in the photo are (l.-r.) Paul Dubin, Tom Wade and Perry Husband.

Burros varsity hoopsters go after 10th straight win tonight against Hart

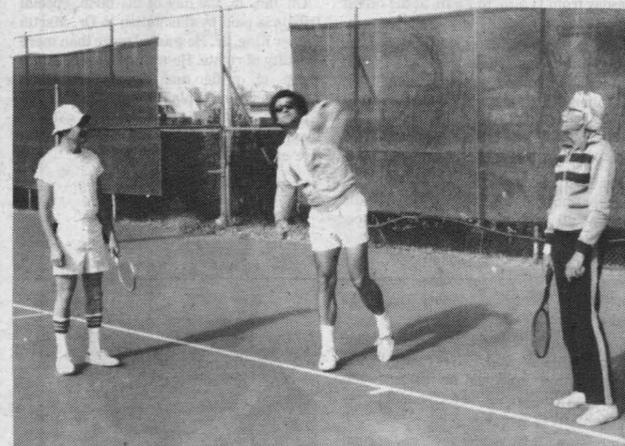
Riding the crest of a nine-game winning streak, including three Golden League victories, the Burroughs High School varsity boys' basketball team will travel to Hart High School in Saugus tonight for another league contest.

Tip-off time is 8 p.m. for the varsity tilt. It will be preceded by freshman and junior varsity games at 5 and 6:30 p.m., respectively.

During the past week, the Burros, who are the defending champions of the Golden League, defeated Antelope Valley 70-56 in a game played last Friday in Lancaster, and on Tuesday night steamrollered over the visiting Canyon High Cowboys 79-32.

In Tuesday night's tilt against the Cowboys, Larry Bird, coach of the BHS varsity hoopsters, had the opportunity to utilize all of his players in various combinations as the Burros dominated the game from the opening tip-off.

Curtis Edmonson had a hot hand in the first quarter. He tallied 8 of his 12 points for the game during the initial 8 minutes of action — leading the Burros to a 16-6 lead over the Cowboys.



TENNIS CLASSES SLATED — Fred Hagist (at right), tennis instructor, observes closely as Jan Schulz practices the technique of serving the ball. Looking on at left is Steve Finnegan, another local tennis enthusiast. A new six-week series of tennis classes taught by Hagist will begin on Jan. 15. —Photo by Ron Allen

NWC cagers to play Port Hueneme here tomorrow, Sunday

The NWC varsity basketball team, coached by Chief John Smith, of VX-5, started off the new year with a victory by a final score of 116 to 110 over Norton Air Force Base hoopsters in a game played last Saturday in San Bernardino.

The game at Norton AFB, as well as a pair of home games tomorrow and Sunday against the cagers from Port Hueneme, is in preparation for the 11th Naval District area eliminations that will get underway on Jan. 21 at Pt. Mugu.

Tip-off time for tomorrow's game between the NWC varsity hoopsters and their counterparts from Port Hueneme is 2 p.m. at the Center gym. The same two teams will play a second game here on Sunday, starting at 1 p.m.

The China Lakers, who trailed Norton AFB by a score of 59-51 at the halftime intermission last Saturday, outscored their opponents by 14 points (65-51) in a free scoring second half to win an action-packed game.

With 5 min. left to play until the end of the game, the NWC varsity cagers overcame their first half deficit and tied the score at 92-92. After that, the two teams traded baskets until the final minute of play when the pressing defense by the China Lakers forced turnovers by the Norton AFB team and the local cagers took advantage of these miscues to win by a final margin of 6 points.

Skip McIntosh, of the NWC varsity, was the game's high point man with 40 — the majority of which were scored in the second half. McIntosh cashed in on a number of offensive rebounds and also was accurate with his outside shooting.

Other top scorers for the NWC team were Buzz Gibbs, a guard, who tallied 23 points, and Barry Adams, a forward, who chalked up 21 points and grabbed 15 rebounds.

Leading rebounder for the NWC varsity was Doc Gibson, a forward, who snagged 17 caroms, while good play on defense was turned in by guards Basil Robinson and Derrick Graves, as well as by J. W. Spells.

The Norton AFB cagers were led in the scoring department by Jerry Nettles and Bobby Carter, who accounted for 30 and 22 points, respectively.

Conference opener dropped by Cerro Coso College team

The Cerro Coso Community College Coyotes began the 1980 Desert Athletic Conference basketball season on a losing note last Saturday at the Naval Weapons Center gym — being defeated 104-87 by the visitors from College of the Desert.

As he has been since the start of the 1979-80 basketball schedule, John Hall was the leading scorer for the Coyotes with 32 points. Costly turnovers and poor shot selection were cited by Coach Bill Locke as reasons for the Cerro Coso loss to College of the Desert — a team which also had a height advantage over the local college squad.

In addition to Hall, other players for Cerro Coso who were in the double-figure scoring column during the conference opener were Dan Chavis (20), Tony Jackson (14), and Jim Bowen (11).

This past Monday night, the Coyotes hosted the Porterville College quintet at the NWC gym in a non-conference game that was won 85-77 by Cerro Coso.

A more deliberate style of play paid off for the Coyotes, who passed the ball around more and waited for a good scoring opportunity before getting off a shot at the basket.

Once again Hall was high point man for the Coyotes with 29 points against Porterville, while David Ray hit 12 and Chavis tallied 10. The halftime score was 44-40 in favor of Cerro Coso over Porterville.

Next week, the Coyotes have two more conference games coming up — one at Barstow on Wednesday, Jan. 16 and the other at Victor Valley on Saturday, Jan. 19.



WORKING MEETING — William G. Fisher, who is with the Army personnel at White Sands Missile Range, discusses secure telemetry at the fourth meeting of the Joint Service Telemetry Steering Committee held recently at NWC. Listening to him are (seated, l. to r.) Jerry Reed, associate head of NWC's Range Department and committee chairman; John Coumeri, Army Communications Research and Development Command; and Richard K. Sparks, Army Test and Evaluation Command.

STM device being developed...

(Continued from Page 1)

Division, located at PMTC, which serves as acquisition manager for the STM. NWC has been designated lead laboratory for the STM program, to provide management and engineering support.

Although the Navy was first to express a request for STM, the Army and Air Force also are interested in developing the capability of encrypting telemetry for small tactical weapons, so a Joint Service Telemetry Steering Committee was established via a triservice memorandum of agreement, with NSA serving in an advisory capacity. This committee recently held its fourth meeting at NWC.

Chairman of the committee is Jerry Reed, associate head of the NWC Range Department. Gary Davis, head of the Telemetry Division in that department, is the executive secretary.

Hearing on proposed CSRA Demonstration Project set Jan. 22

A public hearing on the proposed Naval Weapons Center / Naval Ocean Systems Center Demonstration Project will be held at the Burroughs High School lecture center on Tuesday, Jan. 22.

The hearing, which is to begin at 9 a.m., will be conducted by Julie Sugarman, Deputy Director of the Office of Personnel Management (OPM). All NWC employees who will be included in the demonstration project or who would like to participate in the hearing are invited to attend.

The purpose of the hearing is to provide interested persons or organizations an opportunity to present written or oral views concerning the project to OPM and Navy officials prior to any final approval of the project.

The hearing is not intended to be a question and answer meeting for the purpose of providing general information on the demonstration to attendees (although questions concerning specific aspects of the project may be asked and answered by the panel). Briefings for the purpose of informing employees about the project have been (and will continue to be) held separately from the public hearing.

Individuals desiring to testify at the hearing are asked to contact Marco Monsalve by calling NWC ext. 2676 so that presentation time can be assured.

Callers should be prepared to provide the following information when calling about testifying at the hearing: Name, address, organization or group represented (if any), estimated time of presentation and whether or not a written text will be submitted.

Comments from witnesses will be limited to 10 minutes each in order to give all parties an opportunity to be heard. The meeting will be recorded for purposes of public record.

Car pools encouraged in effort to reduce gasoline consumption

All Centerites are now being urged to reduce the use of privately owned vehicles going to and from work by taking the steps necessary to become involved in car pooling.

One of the major goals of President Jimmy Carter's Energy Conservation Program is the reduction of vehicular transportation in order to cut back the amount of petroleum usage. The results will be less dependence on foreign oil and a beneficial stabilizing influence on the spiraling costs of oil products.

Naval Weapons Center Command policy is to establish incentives to encourage alternate means of transportation (such as car pools) to conserve fuels. Preferential reserved parking spaces will be made available for car / van pool members.

Individuals who join a car / van pool not only help in the nation's Energy Conservation Program, but also benefit personally by considerable decrease in home-to-work transportation costs.

The NWC Public Affairs Office, Code 003, will serve as the Center coordinator for car pool activities. Persons with cars or vans who are willing to provide them to transport their co-workers to and from work should call the Community Liaison Assistant, NWC Ext. 3481, for information regarding Centerites who are interested in joining car pools.

Data that will be gathered by the Community Liaison Assistant in order to match up potential car / van pool drivers with passengers includes the name, home address, work station, and regular work hours of both drivers and passengers.

As a positive encouragement to car

pooling, a reserved parking space will be made available for each approved car / van pool of three or more persons whose driver has a regular duty assignment in a building with 50 employees or more whose regular work station is in that building.

The NWC Director of Safety and Security (Code 24) will coordinate, review, and approve reserved parking spaces for all purposes — ranging from those needed daily for official business to the needs of car / van pool operators — and visitor card parking permits will be issued by the Vehicle Registration Office (Code 24322).

To start the ball rolling, drivers of car / van pools must submit a Reserved Parking Space Permit / Authorization (form 11ND-NWC-5560 / 30) to their department head for endorsement. These forms are available in department offices. Additional copies may be obtained from the Vehicle Registration Office (Code 24322).

Fed'l Women's Program Committee seeks help

The Federal Women's Program Committee is seeking men or women who are interested in furthering the goals of the Federal Women's Program and would be willing to serve on the committee as a collateral duty assignment.

Committee meetings are held monthly, and members serve on the committee for two years.

Anyone who is interested in becoming a member of the Federal Women's Program Committee may telephone the EEO office at NWC ext. 2348 for an application. Applications must be received by Jan. 31.

Rental rate figures corrected

The revised rental rates and utility charges for some types of housing at China Lake were incorrectly shown in the 1980 rental rate table that was published in the Jan. 4 issue of THE ROCKETEER.

The types of units affected, and the correct amount for shelter and utilities is as follows. The new rates will go into effect on Feb. 1.

TYPE	SHELTER RENT	UTILITIES	TOTAL
Wasp Circle Duplex (3)	\$254.10	\$103.20	\$357.30
SSQ (3)	344.10	148.50	492.60
Old Duplex (2) Dining Addition	234.00	79.20	313.20
Old Duplex (2)	204.00	77.10	281.10
Old Duplex (3)	244.50	93.30	337.80
Old Duplex (1)	139.50	67.80	207.30
Old Apartment (1)	135.00	49.80	184.80
Old Apartment (2)	153.90	70.80	224.70
Old Apartment (3)	189.00	77.70	266.70
Dormitory-Single with Private Bath	125.10	26.70	151.80
Single with Semi-Private Bath	99.90	26.70	126.60



TOPS IN 11TH NAVAL DISTRICT — The Naval Weapons Center's Enlisted Dining Facility (EDF) was singled out as the 11th Naval District's best EDF in the Small Mess Ashore Division of the 1979 Ney Award competition. A plaque denoting this honor was presented recently by Capt. William B. Haff, NWC Commander, to MSCS Rogelio Del Parto, the assistant food service officer. On hand for the ceremony were (in foreground) Capt. J.D. Killoran (at left), NWC Director of Supply; Lt. J.C. Messenger, officer-in-charge of the Food Service Division (standing next to MSCS Del Parto), and members of the EDF crew. The criteria upon which the award is based include food preparation, training, record management, general mess management, safety and sanitation. At the present time, the EDF at China Lake is serving 14,000 meals per month. Lt. Messenger reported. Since the above photo was taken, the Food Services Division has learned that the local EDF also has won the 11th Naval District competition for the Ney Award in the Small Mess Ashore Division for 1980. Coming up on Jan. 17 is a semi-finalist inspection to determine if the EDF at China Lake will be in the running for top honors Navywide in the Ney Award competition for 1980. —Photo by PH2 Tony Garcia

Results of Incentive Awards Program reported

Results of the Naval Weapons Center's Incentive Awards Program for the period from Oct. 1, 1978, through Sept. 30, 1979, were made available recently by the NWC Personnel Department.

The various categories of awards covered in this report are Beneficial Suggestions, Inventions, Special Act or Service Awards, Sustained Superior Performance and Outstanding Performance Awards.

A total of 233 Beneficial Suggestions were submitted, of which 43 were adopted that resulted in estimated tangible savings of \$25,486 during the first year of their use.

Center employees received \$5,390 for their Beneficial Suggestions.

In the field of inventions, a total of 230 patents were granted during the past fiscal year to employees whose ingenuity netted them \$37,250 in awards, while \$99,855 was divided among the 196 recipients of Special Act or Service Awards.

Additionally, 285 employees who were presented Sustained Superior Performance Awards pocketed \$158,724 for their exceptional efforts.

The various awards presented, and the names of the recipients (listed by department) are as follows:

BENEFICIAL SUGGESTIONS
OFFICE OF COMMANDER — Loyal R. Blackwood.
FINANCE AND MANAGEMENT — Evelyn H. Boves, Tasha M. Courbron, Cheryl L. Fowler, and Elva J. Walters.
WEAPONS PLANNING GROUP — Alan J. Hugo.
SAFETY AND SECURITY — Dahl K. Anderson, Juanita D. Baker, Darrelle J. Chitwood, Ralph E. Halcobm, Rodney D. Lewis, Leroy C. Meyers, E.J. Roy, and Robert L. White.

SUPPLY — Lawrence R. Mason.
PUBLIC WORKS — Clarence L. Bartholomew, Jr., Richard Brown, Oyvando J. Cowles, Arthur J. Martin, Erb Montgomery, Orvil L. Parfeli, Charles R. Cass, Cecil Laine, Jerry L. Morrison, George Perrigo, D. Reid, John Klindworth, Robert D. Philpott, Thomas R. Puckett, George K. Shultz, Miriam J. Smith, Gunars I. Svika, Richard W. Tarpley, Jamaica K. French, and Kay R. Turcotte.

ORDNANCE SYSTEMS — Richard C. Bullock, Charles P. Gallagher, Danny A. Callaway, Cleighton D. Sheehart, Ray G. Ellington, Michael P. Thorpe, and Jack L. Tipton.
FUZE AND SENSORS — James H. Bennison, and Shirley A. O'Malley.
TECHNICAL INFORMATION — Annalee L. LaRosa.
ENGINEERING — Joseph D. Roberts, Gary D. Wood, and Laverne L. Michau.

RANGE DEPT. — Norman R. Brown, Jr., Charles R. Peppe, and Alan J. Paulsen.

SUPERIOR ACHIEVEMENTS
INVENTIONS
SYSTEMS DEVELOPMENT — Warren T. Burt, Alexander C. Charters, Guilford L. Hollingsworth, Arthur E. Clayton, Dwight L. Dennis, Keith L. Gardner, Henry H. Adaniya, Goro Fujiiwara, William H. Hickie, Lloyd J. Holt, Clayton E. Panlaqui, George D. Mason, Donald W. Peterson, John A. Knecht, Gary Peterson, Larry L. Liedtke, John W. Holtrop, Russell W. Pierce, Edward A. Teppo, Henry P. Leat, Anthony San Miguel, James Rieger, Clifton E. Stone, Woodrow D. Chierli, Michael A. Capagnaro, and Langthorpe Sykes.

ORDNANCE SYSTEMS — Michael H. Aley, James A. Bowen, Cecil A. Glass, Carl F. Austin, Guy W. Leonard, Raymond E. Boss, Moyle L. Braithwaite, Dennis L. Vories, John D. Braun, John Gonzales, Paul O'Neill, Russell Reed Jr., Arthur B. Breslow, James T. Bryant, George W. Burdette, Dean H. Couch, Vernon D. Burkland, Gregory D. Colman, Frank J. Dandi, James P. Diebold, Judson B. Eldridge, John W. French, David B. Fenneman, Robert J. Gerdes, Gary K. Fisher, Patrick H. Hall, James A. Loudngain, Michael D. Jacobson, George A. Hayes, Samuel P. Holladay, Lloyd J. Holt, Clayton E. Panlaqui, Lily E. Koch, Barbara A. Stiff, Benjamin Y. Lee, Russell Reed Jr., Alvaro G. Lopez, Crill Maples, Howard C. Schager, Richard D. Ulrich, William L. Black, Kenneth L. Moore, Stanley E. Wood, Barbara A. Plonksh, Jawaharlal Ramnarane, Horace D. Stanton, Joan Reinhardt, Warren E. Stump, Dino A. Sbrocca, Clifford O. Shaw, Ronald E. Smith, W. James Stone, Lovic P. Thomas, Ronald G. Stoutmeyer, Russell T. Trivinger, and Jack A. Yeakey.

FUZE AND SENSORS — Richard E. Bird, Jim R. Denney, Howard M. Forrester, Daniel A. Goss, Roy M. Ito, Larry H. Josephson, Donald F. Grundler, Myron L. Iverson, Kenneth B. Labaw, Gary D. Lowe, Tom F. King, Roy L. Nichols, Carl B. Lindsey, Bennie D. Macomber, Gregory C. Roush, William R. Magorian, James E. Means, Michael R. Osburn, Stephen L. Redmond, and Anthony N. San Miguel.

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ENGINEERING — Roland E. Baker, James D. Walden, Lester Daratz, Sydney Sheffer, George H. Gilli, Charles A. Johnson, Charles E. Woods, Gerard M. Kersten, and Willard P. Webster.

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Lowell H. Wilking.
RANGE — David E. Baker, John G. Dibble, Vernon J. Logue, John S. Marchetti, Joe A. Brown, Robert L. Brown, Harvey W. Farrington, Marvin E. Rush, Michael D. Elam, John F. Fath, Patrick N. Keller, James E. Long, James D. Pipkin, Kenneth P. Lusk, Robert L. Mills, Richard C. Porter, Rebecca I. Sarge, and Robert F. Vorwerk.

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