

CLOTA's annual meeting, award banquet scheduled

The Community Light Opera and Theatre Association (CLOTA) will hold its annual meeting and awards banquet on Saturday, Jan. 22, at the Chief Petty Officers' Club. A social hour will begin at 6 p.m., with dinner following at 7.

For the enjoyment of CLOTA members, their guests, and other persons at the CPO Club that evening, Caleb, a local music group that has been praised in several previous engagements for its danceable music, will play following the banquet and meeting.

All theater-lovers who would like to enjoy a festive evening with actors, directors, backstage people, and other CLOTA supporters are invited to attend the banquet. Highlight of the evening will be the presentation of the Jane Bugay Memorial Award to an outstanding CLOTA member who has made a sustained contribution to the organization over the years. Awards for "best of the year" in a number of acting and technical categories also will be presented.

Productions Planned
Sue Gardner, membership chairman, will be on hand to distribute packets of tickets for the coming season to those who are willing to act as CLOTA salespersons. Stage productions planned for next season are the haunting "Dark of the Moon," which is to be presented in late March and early April by director Joyce Maltby; the lively musical, "Gypsy," directed by Robbie Robbins in June; and a musical story of reincarnation, "On a Clear Day You Can See Forever," directed by Ken Austerman in October.

Arrangements for the banquet are being made by Terry Payne, CLOTA secretary, who announced that the CPO Club will serve a buffet dinner for the occasion. In addition to the business meeting, several skits are planned that will recall some of the humorous incidents in CLOTA's history. An election of board members for the coming year will also be held.

All persons planning to attend the banquet are asked to contact Terry Payne, 446-2383 (evenings); Liz Babcock, 446-4394 (evenings); or Suzanne Koerschner, 377-4527, before Jan. 20.

Disco-rock group to play for two dances

Four on the Floor, a disco-rock group from Los Angeles, will play for Enlisted Club dances tonight and tomorrow night from 9 until 2 a.m. In addition, the Gary Leader floor show will entertain tonight at 10 in the ballroom.

A comedian from Canada, Leader has appeared at military clubs in the Far East as well as throughout the U.S.

Tonight's dinner special will be seafood plate, while that for tomorrow night will be prime rib. Both will be served from 6 until 8:30.

The EM club wishes to announce a leisure hour every Friday beginning at 4:30 p.m. Dance music and hot hors d'oeuvres are complimentary with the purchase of drinks at happy hour prices.

Tickets still on sale for Twain portrayal

Tickets are still available for a dramatic portrait of Mark Twain that is to be presented at the Cerro Coso Community College lecture hall tomorrow night at 7:30.

"Mark Twain on Stage" will be enacted by John Chappel, who uses with permission the original script developed by famed actor Hal Holbrook for his own performances. This one-man dramatic enactment recreates Twain's words, dress and mannerisms.

Priced at \$2 for the general public and \$1 for holders of student body cards, tickets for this special community services event are on sale at the college business office, the Gift Mart in Ridgecrest and the Station Pharmacy at China Lake.



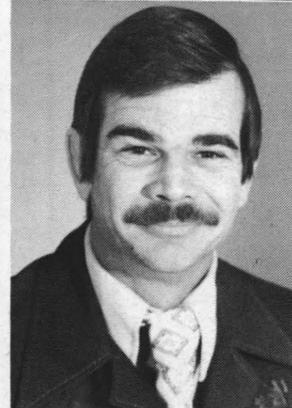
TALENTED MUSICIANS — Matrix, a popular nine-piece musical group, will perform at the Burroughs High School lecture center on Saturday, Jan. 22, at 7:30 p.m. Tickets for this community services event sponsored by Cerro Coso Community College are now on sale at several locations.

9-piece 'Matrix' band to perform at Burroughs lecture center Jan. 22

The popular Midwest music group known as Matrix will perform at the Burroughs High School lecture center on Saturday, Jan. 22, at 7:30 p.m. as part of the current community services series of programs sponsored by Cerro Coso Community College.

Composed of former students at Lawrence University in Appleton, Wis., the group made its well-received West Coast debut recently at the 19th annual Jazz Festival in Monterey, Ca. Critics have predicted that this group, composed of three trumpets, two trombones, saxophone, piano, bass and drums, will be to the 1970s what Blood, Sweat and Tears were to the 1960s.

According to one writer, "This group avoids comparison with other cross-over, quasi-jazz/rock bands by its playing of flowing melodic works—the blending of rock drum rhythms with harmonically



NEWLY PROMOTED — Jim Petty, who had served as assistant manager of the Enlisted Club here since September 1976, became manager of that facility in December. Prior to accepting employment at China Lake he was manager of the Cary Country Club in Cary, Ill., and while on active duty for 10 years in the Marine Corps, managed clubs in such locations as the Glenview Naval Air Station, Glenview, Ill. and the Fetuma Marine Corps Air Station, Okinawa. —Photo by Ron Allen

SHOWBOAT

MOVIE RATINGS

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

- (G) - ALL AGES ADMITTED
General Audiences
- (PG) - ALL AGES ADMITTED
Parental Guidance Suggested
- (R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian
- CS - Cinemascope
- STD - Standard Movie Screen
- Regular starting time—7:30 p.m.
- Program subject to change without notice — please check marquee.

FRI. 14 JANUARY

"THE TENANT" (126 Min.)
Roman Polanski, Isabelle Adjani
(Drama) This psychological drama centers around a 30-year old awkward French fellow (Polanski), who is in need of an apartment. He comes to inspect a shabby, sparsely furnished flat in a rundown quarter of Paris. A grouchy tenant (Shelly Winters) shows him the room, explaining that the previous tenant attempted suicide by throwing herself out the window. If she dies, the apartment is his. The next morning the woman dies and Polanski takes over the apartment. Tension mounts as he dwells on the suicide and this self torment leads to a tragic end for him. (R)

SAT. 15 JANUARY

"STREET PEOPLE" (92 Min.)
Roger Moore, Stacy Keach
(Action Drama) San Francisco mafia member Ivo Garrani donates a cross to an Italian fisherman. Unknown to them, the base of the cross is filled with narcotics. Garrani's nephew and lawyer (Moore) determines to find out who is responsible for the dope. With the help of a friend (Grand Prix racer Stacy Keach), Moore is able to uncover who is responsible. This is an action movie in which the excitement mounts as the two men track down the dope smugglers through San Francisco streets. (R)

MON. 17 JANUARY

"THE SELLOUT" (86 Min.)
Richard Widmark, Oliver Reed
(Drama) Widmark is a retired CIA agent forced to resume his old job when an old friend and double agent (Oliver Reed) turns to him for help because both the CIA and KGB are conspiring to kill him. Suspense builds as they are subjected to numerous assassination attempts. There are double crosses and lots of surprises in this action-packed spy film. (PG)

TUES. 18 JANUARY

"CHINO" (90 Min.)
Charles Bronson, Jill Ireland
(Western) Chino Valdez (Bronson), an American of Indian/Mexican descent, runs a horse ranch in New Mexico. He is attracted to and plans to marry the sister (Jill Ireland) of his investor/partner, Marcel Bozzutti. Bozzutti is against the elopement and has Chino beaten in hopes of discouraging his ideas. Ireland goes back east and Bozzutti harasses Bronson, hoping to drive him out. In an attempt to get even, Bronson burns down Bozzutti's cabin, fights his way out of town, and starts out on a search for Ireland. (PG)

WED. 19 JANUARY

IWV Concert Association presents
TRIO FLAMENCO
7:30 p.m.

FRI. 21 JANUARY

"LOLLIPOP" (85 Min.)
Karen Valentine, Jose Ferrer
(Drama) A young child is left on the doorstep of a Christian mission in Southern Africa. Father Alberto (Ferrer), a priest who runs the mission, decides the child, Jannie, will be raised there, overriding the objections of a nun who argues that a white child should not be brought up in a black mission. Several years pass and Jannie and her boy Tsepo have become inseparable friends. A Peace Corps volunteer (Valentine) arrives to help at the school. At first she is not accepted because of her liberal ideas and controversy develops. The film tells the story of two inseparable children who share happy and sad times together until the unfortunate death of one of them. (G)

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Naval Weapons Center
China Lake
California

January 14, 1977

Vol. XXXII, No. 2

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TECH DIRECTOR AWARD PRESENTED — In recognition of outstanding technical accomplishment, Donald D. Kummer was the recent recipient of the NWC Technical Director's Award that was presented by Dr. G. L. Hollingsworth (at left). Kummer was singled out for this honor in recognition of his success as program manager of the HAVE ROBE Basic Measurements Program.

Technical Director Award for infrared measurements work presented to Kummer

Presentation of the NWC Technical Director's Award in recognition of outstanding technical accomplishment highlighted last week's Commander's meeting held in the Management Center at Michelson Laboratory.

Donald D. Kummer, a physicist in the Weapons Department's Electro-Optics Division, was the recipient of this special form of a Superior Achievement Award, which was presented by Dr. G. L. Hollingsworth.

The award, which consists of an engraved paperweight, a letter of commendation and a \$200 stipend, was presented to Kummer in recognition of his success during three years as program manager of the HAVE ROBE Basic Measurements Program.

In the letter of commendation it was noted that Kummer has given the project "the direction and strong, outstanding leadership necessary for a testing project of this magnitude to be successful."

"Your efforts in the areas of test plan formulation, utilization of the latest state-of-the-art technologies, and security coordination, along with your total dedication to the program are a direct testimony to your outstanding technical and managerial competence," the citation continued.

The HAVE ROBE Basic Measurements Program, which was started in the spring of 1973, was a \$2½ million program funded by the Director of Defense Research and Engineering and the Naval Air Systems Command. Kummer coordinated the test program with an Ad Hoc Committee in order to establish and formulate the broad objectives of the program, which was directed toward the production of an ensemble of aircraft infrared radiation measurements and correlary aircraft operating conditions, and atmospheric constituent measurements.

The Ad Hoc committee was composed of the most knowledgeable individuals nationally in the field of infrared measurements and modeling. Although

(Continued on Page 5)

Membership drive planned to support TV booster system

A communitywide membership drive will be conducted in the near future by the Indian Wells Valley TV Booster Corp. to raise funds needed for the maintenance, operation and improvement of the local television booster system.

According to Bob Fletcher, chairman of the membership campaign, local area residents will be asked to contribute \$5 per person. Priorities that have been set for use of the money that is raised are:

- (1) \$5,000 is to be set aside for yearly operation and maintenance of the TV booster system.
- (2) Purchase of new translator equipment

Thanks to the efforts Tuesday night of a work crew led by Jim Rieger, secretary of the Indian Wells Valley TV Booster Corp., television Channels 28 and 40 are now back on the air.

Using 4-wheel drive Jeeps, the workmen—Ed Tipler, M. Stan Sanders and Paul Miller, in addition to Rieger—were able to get approximately half way to the top of Laurel Mt., and then walked the remainder of the way.

They repaired a 110 volt circuit on the pickup antenna for TV Channels 28 and 40 that was out of commission, and were pleased to discover that no permanent damage to any other TV booster station equipment had been caused by the recent snowstorm, Rieger said.

for Channel 28 at a cost estimated at between \$8,000 and \$12,000.

(3) Purchase and install additional equipment that will make it possible to transmit the Channel 28 signal from Laurel to B Mt. in order to provide wider coverage of Channel 28 (educational TV) programming.

(4) Accumulate a surplus that will enable the IWV TV Booster Corp. to take care of any future breakdowns in equipment in a

(Continued on Page 3)

100,000 round endurance firing test of NWC-developed Lightweight Gun Pod completed

The recent completion of a 100,000 round endurance test marked another milestone in the design, fabrication, development and qualification of the GPU-2/A Lightweight 20mm Gun Pod which is now being produced for use by U.S. Marine Corps Skyhawk II and OV-10 Bronco squadrons.

According to Jack Bates, program manager, and Art Clayson, project engineer, from the Systems Development Department's Aircraft Gun Systems Branch, the Lightweight Gun Pod met all objectives during the marathon firing tests that were conducted on a test stand at the Naval Weapons Center's K-2 range and by the production contractor, the General Electric Co. of Burlington, Vt.

Purpose of Firing Test

Purpose of the endurance firing test of the gun pod, a complete lightweight weapons system developed by NWC, was to verify that (as designed and manufactured) the gun pod would last through 100,000 rounds, determine if the performance parameters would remain within performance specifications, and establish a parts replacement schedule.

The test was more rigid, Clayson said, than would be the case in actual service use since no routine maintenance was performed and the three-barrel, gatling-type 20mm gun was fired until there was a failure. As a result of the test, the replacement life has been extended for 13 and shortened for four major components.

Minimum Requirement Exceeded

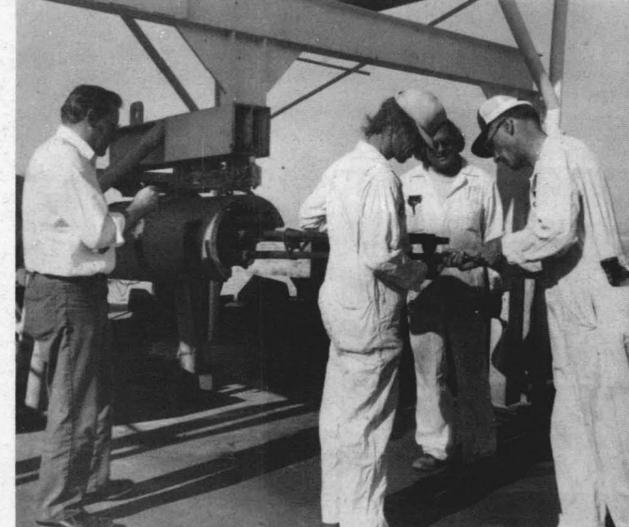
The gun pod demonstrated a mean-rounds-before-failure (MRBF) of 5,400 rounds, exceeding the required minimum of 3,900 rounds before one of its parts failed to function properly. According to Bates and Clayson, the two key personnel in the Aircraft Gun Systems Branch Office, a redesigned ammunition handling component and a modified parts replacement and maintenance schedule will insure reliability to meet or exceed 9,130 MRBF.

The Lightweight Gun Pod Program was initiated in 1969, with Leonard Gulick as its program manager. This was in response to an immediate need by the Marine Corps in

Southeast Asia for a 20mm weapon suitable for use by helicopters and lightweight airplanes. This requirement was first met by making use of an existing 20mm gun that was placed in an interim gun pod that could be mounted on AH-1 or UH-1 helicopters or the OV-10 Bronco, as well as the A-4 Skyhawk and other attack aircraft.

Prerequisites Noted

Also in 1969, the decision was made to develop the GPU-2/A. Prerequisites at that time were that the Lightweight Gun Pod be no heavier than 600 lb., be able to carry at least 300 rounds of 20mm ammunition, be self-contained (require neither hydraulic nor electrical power from the aircraft for its operation), and necessitate only minimum aircraft modification for its utilization.



BORE EROSION MEASUREMENTS TAKEN — This stripped-down look at the GPU-2/A Lightweight Gun Pod shows bore erosion measurements being taken upon completion of the 100,000 round endurance firing test. Busy with various aspects of this task are (l.-r.) Art Clayson, project engineer; ordnancemen C. R. Warren and D. G. West, and George Campbell, K-2 range engineer.



DISTINCTION NOTED — Rear Admiral R. G. Freeman III, NWC Commander (at right) presents an award denoting the completion of 40 years of Federal service to Samuel Gadzia, traffic manager in the Travel and Transportation Branch of the Office of Finance and Management.

Local participation in National Prayer Breakfast slated Jan. 27

Plans were announced this week for local participation in the 1977 National Prayer Breakfast, which is scheduled here on Thursday, Jan. 27, starting at 6 a.m. at the Chief Petty Officers' Club.

There will be a donation of \$1 each for the 250 tickets that (due to the limited seating capacity of the CPO Club) will be available for the breakfast. The tickets can be obtained at the All Faith Chapel office or from representatives of the Protestant, Catholic, Hebrew and Unitarian congregations.

Auction of surplus gov't property set Wed. at Edwards AFB

Plans have been made for the next auction sale of surplus government property that will be held on Wednesday, Jan. 19, starting at 9 a.m. at Edwards Air Force Base's property disposal facility.

Among the more than 200 items to be offered for sale are typewriters, pumps, desks, refrigerators, cabinets, stoves, storage bins, metal lockers, pickup trucks, dressers and electronic test equipment.

Although the auction will take place at Edwards, some of the items will be available for examination locally at Warehouse 41 (on 10th St., just off the Naval Air Facility access road) today until 3 p.m.; on Monday and Tuesday from 7:30 a.m. to 3 p.m.; and Wednesday from 7:30 a.m. until the start of the sale.

On the day of the auction, registration of prospective bidders will be handled between 8 and 9 a.m. at Edwards AFB.

Additional information about the auction and the manner in which it will be conducted, as well as directions concerning how to get to Edwards AFB can be obtained by calling Bill Giuliani at NWC ext. 2502 or 2538.

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad.

Quality Inspection Specialist, GS-1960-11, PD No. 7734008E, Code 3643 — (2 vacancies). Applications will be accepted from both NWC employees and status eligibles. This position is located in the Quality Control Branch, Engineering Prototype Division, Engineering Department. Incumbent plans, coordinates, and (in cases requiring specialized expertise) performs inspections and tests of mechanical and electronic hardware to verify conformance to applicable specifications.

Clerk-Typist, GS-322-3/4, PD No. 7655114E, Code 3635 — Applicants will be accepted from both NWC employees and status eligibles. This position is located in the RP/EMC Systems Evaluation Branch, Product Design Division, Engineering Department. Incumbent provides typing and clerical services to branch personnel; receives and routes incoming correspondence; maintains branch files; greets visitors; answers telephone and directs callers to the appropriate person.

Laborer, WG-3502-2, SS.09 - \$5.94 p/h, Intermittent, JD No. 592, Code 622 — (15-20 positions). Applications are solicited from persons other than NWC employees as well as current employees interested in employment under the following conditions. Selectees will be trained in work assignments related to the conduct of range testing operations.

Heavy Mobile Equipment Mechanic, WG-5803-11, Code 26761, JD No. 434 — Incumbent maintains, repairs, overhauls, modifies and tests various types of heavy duty diesel and gasoline-powered equipment such as locomotives, cranes, tanks, firetruck engines, construction and earth-moving equipment, etc.

Accounting Officer, GS-510-13, PD No. 817057, Code 084 — This is a temporary assignment beginning in March 1977 and ending in June 1978. The incumbent will be head of the Financial Operations Division made up of 85 people who perform the functions of general accounting, payroll and labor distribution, disbursing, travel and computer systems analysis and design for financial systems.



PROFESSIONALISM — NWC Deputy Fire Chief William A. Pahl (at left) congratulates Daryl Meeker of the Fire Division upon his recent graduation from a seven-week long course at the Santa Ana Fire Academy. Meeker graduated third out of 34 West Coast students who took the diversified course aimed at improving the effectiveness of fire services, preventing fires and reducing injuries to firefighters.

Electrician Helper, WG-3805-5, JD No. 144, Code 26431 (2 vacancies) — These jobs are located in the Electrical/Plumbing Branch, Maintenance-Utilities Division of the Public Works Department. Incumbents assist journeyman electricians in tasks associated with industrial wiring, trouble-shooting, and shop repair installation of electrical conduits and wiring, repair of defective wiring, splicing and soldering cables, etc.

Heavy Mobile Equipment Repair Inspector, WG-5803-11, JD No. 477, Code 36703 — This job is located in the Production Control Branch, Transportation Division, Public Works Department. Incumbent inspects, tests, describes malfunctions, designs modifications, writes up shop repair orders; assists heavy mobile equipment repair mechanics with unusually complex problems concerning the repair or modification of gasoline, diesel, electrical and air-powered heavy mobile equipment (locomotives, tanks, missile launchers, cranes, earth-moving equipment, etc.).

Accounting Officer, GS-510-13, PD No. 817057, Code 084 — This is a temporary assignment beginning in March 1977 and ending in June 1978. The incumbent will be head of the Financial Operations Division made up of 85 people who perform the functions of general accounting, payroll and labor distribution, disbursing, travel and computer systems analysis and design for financial systems.

Interpret blueprints, instructions, specifications, etc. Automotive Repair Inspector, WG-5803-11, JD No. 380, Code 26703 — This job is located in the Transportation Division of Public Works Department. Incumbent inspects for malfunctions in various automotive vehicles and prescribes repairs or modifications which are necessary to meet operational and safety standards; estimates time expenditures and material costs involved in repairs or modifications; and uses experience and ingenuity in repairs when no precedents exist.

File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2925. Laborer, WG-3502-2, SS.09 - \$5.94 p/h, Intermittent, JD No. 592, Code 622 — (15-20 positions). Applications are solicited from persons other than NWC employees as well as current employees interested in employment under the following conditions.



DIVINE SERVICES

PROTESTANT 1015 Sunday Worship Service 0900 Sunday School — All Ages 1130 Wednesday Noon Bible Study 1130 Sunday School Classes are held in Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite the Center Restaurant. Communion Service first Sunday of the Month.

ROMAN CATHOLIC MASS 1700 Fulfills Sunday obligation 0700 0830 1130

BLESSED SACRAMENT CHAPEL MASS Daily except Saturday 1135

CONFESSIONS 1115 to 1130 Saturday 1530 to 1645 Sunday 1615 to 1645

RELIGIOUS EDUCATION CLASSES Sunday Preschool thru 6th grades 1015 Wednesday Kindergarten thru sixth 1530 Sunday Seventh & eighth (Junior High) 1900

Above classes are held in Chapel Annexes across from Center Restaurant. As announced. Ninth thru 12th grades "in Home" Discussion Groups Monthly Youth Rallies Contact Chaplain's Office for specifics.

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

UNITARIANS CHAPEL ANNEX #5 Sunday Services — (Sept.-May) 1930

New instructor of auto technology joins college staff

A new automotive technology instructor, Carl Jones, has joined the Cerro Coso Community College teaching staff beginning with the spring semester.

Jones' experience includes serving as a jet aircraft mechanic in the U.S. Air Force and teaching automotive courses at California State University at Chico. He has a B.A. from Cal State Chico and is working toward an M.A.

Jones wants to see the college expand its automotive technology program "so that, upon graduation, students will be able to perform as apprentices or entry-level workers in the automotive field." To accomplish this, he will be working with James A. Sirman, associate dean of instruction for occupational education, to develop a full two year automotive technology program.

Jones has a "learn by doing" approach to



Carl Jones

teaching and is being assisted by a staff of qualified part-time teachers. Automotive Fundamentals, Automotive Electrical Systems, Volkswagen Fundamentals, Small Engine/Motorcycle Repair, and a special course in engine theory and rebuilding are among the automotive technology courses offered this semester.

Wilt's Corner...

(Continued from Page 6)

Center's recreation facilities, including the golf course, bowling alley, gymnasium, hobby complex, theater, Youth Center and more.

All persons interested in improving the various facilities involved are asked to obtain a copy of this manual and send their suggestions and recommendations to Wilt Wyman, Code 0891, NWC ext. 3791. In addition, a special suggestions/recommendations form is available at all recreation facilities for patrons to use as problems arise, or if they have ideas for possible improvements.

Burros win again...

(Continued from Page 6)

The Spartans were led in the scoring department by three players who tallied 8 points apiece. They were Jim Hayes, Wilford Williams and Paul Willis.

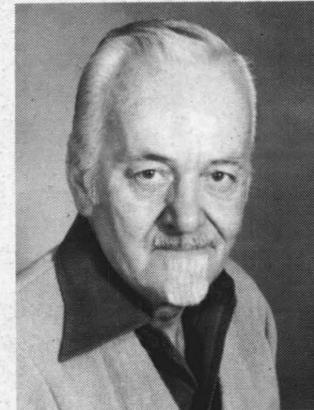
In the preliminary junior varsity contest, a fourth quarter rally was too little and too late for the Burros javees, who lost to their counterparts from Kennedy High by a final score of 50-42.

Per diem rates boosted

An increase in military per diem rates from \$33 to \$35 per day in the continental United States (CONUS) and while enroute traveling outside CONUS has been approved by the Department of Defense with an effective date of Oct. 3, 1976.

This rate is the maximum allowed by law. Prior to June 1, 1976, the maximum per diem was \$25.

Employee in the spotlight



Bob Lauer

"I shun regimentation. Most of my work within the Civil Service and private industry has been related to research and development, an activity, which is, basically, unregulated. Otherwise, R&D would come to a halt. And I've been fortunate to engage in quite a variety of aerospace activity throughout my career."

Bob Lauer, a traveled veteran of the aerospace field, is currently a specifications writer/editor in the Specifications Branch of the Engineering Department. His career at China Lake has encompassed work on practically all of the missile and support systems which the Center has handled, including Shrike, Sidewinder, Chaparral, HARM and Harpoon. Most recently, he has been involved with GATOR, 20mm shells, mine detecting devices and mine test equipment.

Born, Raised in Illinois Born and raised in Springfield, Ill., Bob worked (before World War II) in Richmond, Calif., for a Santa Fe Railroad rip-track crew, where he rebuilt all types of cars, and in Tallahassee, Fla., for a construction firm which was building an Army Air Corps base there. It was in Tallahassee that he met his wife, Lucy, whom he married in 1942.

In August 1941, Bob enlisted in the Royal Canadian Air Force "with a great desire to fly," but also with the knowledge that both the U.S. Navy and the Army Air Corps required two years of college of their pilots. Bob got his education in the air during 50 combat missions and three years of overseas duty as a radio operator/air gunner in a B-24 Liberator.

Some of Bob's missions included going after German submarine pens at St. Nazaire and Lorient in the Bay of Biscay and bombing marshalling yards at Abbeville in Northern France. The crew with which he served the longest called themselves the "nine jerks and the yank," Bob being the latter and a Canadian, New Zealander, two Australians (the "kangaroo twins"), two Scots and several Englishmen made up the remainder of the group. At the war's end, he was the equivalent of a first lieutenant flying officer.

Attended Photo School Upon the conclusion of his military service, Bob attended a photo school and worked as a press photographer for a newspaper in Macon, Ga., until 1949, when he went back to Tallahassee to attend Florida State University — the same school his wife had graduated from earlier. Receiving his B.S. degree in journalism there in 1952, he found that newspaper jobs were scarce, "so I went back to what I knew best, aircraft and their support systems."

First stop was Craig Air Force Base, Ala., where Bob worked as a technical writer for the United States Air Force Air Training

A survivor of two heart attacks and a heart bypass operation, Bob, who says, "I've been there before, I know about it," would like to remind everyone about the dangers of "junk food" and "stresses and strains, both on and off the job." He concludes, "Don't get involved in your work so deeply that you become a horse with blinders on. If the job gets too heavy for you, take some time off."

Formation of local chapter of FEW to be discussed

A meeting for the purpose of organizing a local chapter of Federally Employed Women (FEW) will be the subject of a Brown Bag Seminar to be held next Wednesday, Jan. 19, from 11:30 a.m. to 12:30 p.m., in the Sidewinder Room of the Community Center.

The guest speaker will be Shirley Jones, national vice-president in charge of chapter organization.

FEW takes action to end sex discrimination and to encourage more job opportunities for women in government service; encourages development of potential; works with and assists other organizations concerned with the political process (such as the National Organization of Women and the League of Women Voters).

In addition, FEW addresses many issues such as "female" pay and economics, child and health care, housing, criminal justice, physical safety, media and arts, and respect for the individual at work and at home.

Several locally employed Civil Service women have expressed interest in FEW and Miss Jones has been invited here to discuss information about the organization and to help establish a local chapter.

All interested persons are invited to attend.

Bottle drive slated Sat. by Music Parents Club

A communitywide drive to collect returnable bottles for which deposits can be collected will be held tomorrow by the Music Parents Club of the Sierra Sands Elementary School District.

All proceeds from the bottle drive will go into a scholarship fund that will be used to send top-ranking elementary music students (grades six through eight) to Arrowbear Music Camp in the summer. Tryouts for the scholarships will be held this spring.

Students collecting bottles on behalf of the Music Parents Club at homes throughout the local area will be wearing Arrowbear identification badges.



PATENTS AWARDED IN RESEARCH DEPT. — Dr. E. B. Royce (at right), head of the Research Department, extended congratulations to employees in his department whose work resulted recently in the presentation of patent awards. The recipients were (l.-r.) Dr. Carl Heller, Herbert P. Richter, Warren J. Murbach, Dr. Arnold Adicoff, Dr. Richard S. Hughes, Dr. Victor Rehn and Nicholas Botka. "Catalysts for Chemiluminescent Systems" was the title of a patent awarded jointly to Dr. Heller, Richter and Ruth Tedrick (not present for

photo), while Murbach, a research chemist, and Dr. Adicoff, associate head of the Chemistry Division, shared a patent for devising methods of manufacturing pre-holographic elements. Dr. Hughes and Lynn Hutcheson (not present for photo) are the co-holders of a patent entitled "Electro-Optic Tuning of Organic Dye Lasers." During this same ceremony, the fourth patent award of the day was presented by Dr. Royce to Botka and Dr. Rehn for their development of a tunable, electroabsorptive, semiconductor detector. —Photo by PH3 B. J. Beckman

The Rocketeer Official Weekly Publication Naval Weapons Center China Lake, California. RAdm. Rowland G. Freeman III NWC Commander. Dr. G. L. Hollingsworth Technical Director. C. E. Van Hagan Head, Technical Information Department. Don R. Yockey Editor. James J. Stansell Associate Editor. Terri Jacks Editorial Assistant. Ron Allen Staff Photographer. DEADLINES: News Stories Tuesday, 4:30 p.m. Photographs Tuesday, 11:30 a.m. The Rocketeer receives Armed Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NPP-R P-35, revised January 1974. Office at Nimitz and Lauritsen. Information published in The Rocketeer does not necessarily reflect the official views of the Department of Defense. 3354, 3355, 2247

Burroughs varsity hoopsters chalk up 2nd league victory

Victory No. 2 in the current Golden League basketball season was picked up Tuesday night by the Burroughs High School varsity hoopsters, who knocked off the visitors from Kennedy High School in Barstow by a final score of 56-42.

This set the stage for tonight's highly important contest between the Burroughs cagers and Antelope Valley High School at Lancaster. Tip-off time for the varsity clash will be 8 p.m. It will be preceded by freshman, sophomore and junior varsity games at 3:30, 5 and 6 p.m., respectively.

Tuesday night on their home floor, the Burroughs High varsity quintet made up for a pre-season 68-51 loss to Kennedy during the Rubidoux tournament. The locals got the jump on their opponents and moved out to a 16-10 first quarter lead.

Key to Victory

Outstanding defense was the key to the Burros' win, Larry Bird, varsity coach, stated, and it was never more apparent than in the second period of the Kennedy game when the Spartans were held to just 4 points.

After leaving the floor at halftime with a 24-14 lead, the Burros kept the pressure on in the third stanza and were leading by as much as 22 points with a little more than a minute to play before the fourth period got under way. The Spartans then hit two quick field goals to cut the Burros' lead to 42-24.

The locals maintained a comfortable lead for the remainder of the game and, even though they were outscored 18-14 in the final 8 min. of play, emerged with a 56-42 victory.

The solid Burros' defense, coupled with misplays on the part of the Spartans who committed numerous turnovers, was the main difference in Tuesday night's game and the pre-season tilt between Burroughs and Kennedy, Coach Bird noted.

Game's Top Players

The Burroughs High varsity coach singled out Robert Campbell and Carlos Gilbert as his co-offensive players of the game, and Gilbert as the local squad's best defensive player.

Campbell, who hit 7 of 11, or 64 per cent of his shots from the field, was the game's high point man with 16, while Gilbert had his best all-around effort of the season as he not only tallied 13 points but led the Burros in recoveries.

Kevin Silberberg also had a good night, as he scored 11 points, while Hugh Washburn earned kudos from Coach Bird for his best overall performance so far as he led the Burros in rebounds with 9 and scored 6 points.

In Tuesday night's game against the Spartans, the Burros were able to work the ball in close and go for the high percentage shots inside the key. Game statistics showed that the Burroughs High cagers got off 71 per cent of their shots (a total of 31) from inside the key, compared to just 14 shots attempted in close by the visitors from Barstow, who hit on just 6 of such attempts.

(Continued on Page 7)



HARD FOUGHT GAME — Dave Crandall, forward for the Net Knockers, comes down with a rebound during his team's contest with the Space Mud quintet last Tuesday night in Intramural Basketball League action at the Center gymnasium. Waiting for an opportunity to get in on the play are (l.-r.) Rod Maskew, guard for the Net Knockers; guard Rich Lasell of Space Mud; and Space Mud forwards Dave Long (partially hidden) and Jim Evans. Space Mud came out on top of this "B" division affair, 49-41, paced by Al Sorensen, center, and Long, each of whom had 12 points. High point man for the Net Knockers was Crandall, with 15.

Intramural Basketball League action resumes after 2-week holiday break

By Doug Nelson

After a two week holiday intermission, action in the NWC Intramural Basketball League resumed last week with hard-fought games in all three divisions.

Opening the action on Tuesday night, Jan. 4, the Wasps and Lobos met in a "C" Division contest in which the Wasps held on to a 42-32 win after running up a 12-point lead at halftime. The Wasps' Jim Bodkin led the scoring with 12 points, while John Lamarr had 6 for the losers.

In the second game of the evening, Desert Motors fell just short in a close match with NAF, as the latter came out on top in a 48-46 squeaker. Daryl Moline of NAF led all scorers with 20 points, while Rich Blosser looped in 15 for Desert Motors.

The Homestead hoopsters overcame a 9-point deficit at halftime to defeat the Gamecocks, 46-41, in the final contest of the night. The winners' Larry Stevnsan was high-point man of the game, with 19, while Rusty Lester of the Gamecocks had 18.

On Wednesday, Jan. 5, the No-Names kept up their winning ways in the "C" Division by thrashing the Gasbags, 47-29. Bob Parsons paced the winners with 18 points, while Bill Waldon of the Gasbags had 11.

The second game of the evening pitted the FAC team against Loewen's No. 1 in a match-up which featured two good scoring

performances.

FAC hoopsters held a 2-point halftime lead and eventually broke loose for a 66-58 victory. Rich Peterson led the winners with 18 points, while Mike Graham had a sparkling 19 in a losing cause.

Loewen's No. 2 fought off a late surge by the previously unbeaten Net Knockers to win a 55-53 thriller which was highlighted by Gordy Irvine's 20 points. Craig Hiller topped the losers with 16.

A "C" Division affair between the Royals and Outcasts began the action on Thursday night, Jan. 6.

The Royals fought off a late rally by their opponents to hang onto a 42-35 victory and at the same time extend their own winning streak to five games. Harry Gordon tallied 14 points for the winners, while Paul Heard scored 12 for the Outcasts.

NWC Squad Upset

"A" Division action that night produced an upset as the previously undefeated NWC squad was overcome by Kern River Tours hoopsters, who had only a 2-point lead at the intermission but managed to pull away in the final few minutes to win, 47-38.

Dale Burr of Kern River Tours was high point man for the night with 12, and Kelvin McSwain had 9 points for NWC.

The Space Mud hoopsters kept up their winning ways with a 53-37 victory over the Muthas in the final game of the evening.

The winners jumped off to an early lead and were never behind at any time during the contest. Al Sorensen took scoring honors for the winners, with 16, while Mike Chan had 14 in a losing effort.

Sports fishing licenses

for 1977 now available

Sport fishing licenses for 1977 are now on sale at Department of Fish and Game offices and with license agents throughout the state.

Angling licenses are issued on a calendar year basis, and 1977 licenses have been required since Jan. 1.

Fees are \$4 for resident licenses, \$2 for the inland waters validation stamp and \$3 for the trout and salmon stamp. The three-day ocean fishing license costs \$2.

With approximately 2.4 million licensed fishermen, California is the leading state in fishing license sales.



Wilt's Corner

Youth Basketball League play to begin on Monday

Action in the Youth Basketball League will begin here Monday among 16 teams in five divisions.

The two instructional, three intermediate and four junior teams will play Monday through Thursday at the Youth Gym, while the four senior and three high school teams will compete on Fridays and Saturdays at the Center gymnasium.

Golf Tourney Postponed

The China Lake Golf Club's Officers' Installation Tournament has been postponed to Saturday, Jan. 29, due to weather conditions which have adversely affected the condition of the course.

Entry blanks for the tournament, which was originally scheduled for tomorrow, are available at the golf course. They are due no later than Jan. 24 in order to allow time for planning the dinner to be held at the Chief Petty Officers' Club the evening of the event.

More information can be obtained by phoning Mike Sanitate, NWC ext. 3310, or John Emery, 375-9672.

Racketball Tourney

Tryouts are now being held for the teams which will compete in Admiral's Cup competition in racketball at the Center gymnasium's new courts beginning Tuesday and continuing through Thursday, Jan. 20.

On Tuesday, NWC will meet VX-5, while VX-5 and NAF will play on Wednesday and NWC and NAF will tangle on Thursday. Each team will consist of seven members, at least one of whom will be female.

NWC vs. Cerro Coso

The Center gymnasium will be closed to public use beginning at 6 o'clock tonight for a basketball game between hoopsters representing NWC and Cerro Coso Community College, which will get underway at 7:15.

There will be no admission charge for the game, and the indoor pool, weight room and locker rooms will remain open.

Recreation Manual

A Special Services Recreation Operations Manual has recently been completed and distributed, collecting into one document all directives pertaining to the operation of the

(Continued on Page 7)

Intramural Basketball League standings

China Lake Intramural Basketball League standings as of Tuesday, Jan. 11:

Team	Won	Lost
A Division		
NAF	5	1
NWC	4	1
Kern River Tours	3	3
Loewen's I	2	3
FAC	2	3
Desert Motors	0	5
B Division		
Space Mud	5	0
Loewen's II	3	1
Net Knockers	3	2
Homestead	3	2
Muthas	1	3
Gamecocks	1	4
Speedsters	0	4
C Division		
Royals	6	0
No Names	4	1
Outcasts	2	3
Wasps	2	3
Lobos	2	4
Gas Bags	0	5

Top sailors of '76 to be guests at 8th Bluejacket of Year dinner

Plans are in full swing for the eighth annual Bluejacket of the Year banquet to be held at the Enlisted Club on Saturday night, Jan. 22, under the sponsorship of the Indian Wells Valley Council of the Navy League.

The winner of the 1976 Bluejacket of the Year Award—until then a well kept secret—will be announced at that time.

A selection committee composed of three Chief Petty Officers is responsible for selecting the award winner from a list of eight former monthly Bluejackets. Monthly award winners who have retired, attained the rank of Chief Petty Officer or who have been transferred to another duty station are not eligible for this honor.

The eight eligible enlisted sailors are AMH1 James E. Hill, ADJ2 Roger McEntee, ADJ2 Carlito Panganiban, AN Beverly Sinise, ADJ1 John Smith, A01 Steven D. "Harry" Depauw, ADJ2 Ashley B. Drinnon and YN2 Linda Bomberger.

Ineligible for the yearly honor are AZI Virgilio "Bill" Martinez, who was recently transferred to San Diego, and ABH1 Richard K. Fuller, who is now retired.

The Bluejacket of the Year selection committee is led by FTCS Dave Vander

Houwen, senior Chief Petty officer of the Command. Helping him to select the most outstanding sailor at China Lake during 1976 are the leading chiefs of the Aircraft Department and Air Test and Evaluation Squadron Five, AFCEM John Hendry and AMEC Joe Pickens, respectively.

One of the factors in the selection must be the sailor's reaction under fire—the individual's answers to questions asked by the committee. Further important considerations are the sailor's military bearing, appearance, conduct, job performance, and supervisor's recommendation.

Tickets for the Jan. 22 banquet, priced at \$7 per person, can be purchased from Charlotte Baker at the Computer Sciences Corp. building, 443 Inyokern Rd., Ridgecrest, or ordered by phoning her at 446-5885. They also being sold by Iva Jeane Mallory at the NWC Office of Information, phone NWC ext. 3511.

The evening will begin at 6:30 with a social hour, and a Cornish game hen dinner will be served at 7:30. Introduction of the Bluejacket candidates will be made after dinner, as will announcement of the 1976 winner.

RAdm. Freeman to speak at C of C meeting, Kern County Business Outlook Conference

Two speaking engagements are coming up next week for Rear Admiral R. G. Freeman III, NWC Commander, who will be the featured speaker at the Monday noon luncheon meeting of the Ridgecrest Chamber of Commerce, and also will participate with a group of other speakers in the 1977 Kern County Business Outlook Conference on Wednesday, Jan. 19, at the Civic Auditorium in Bakersfield.

During his talk to the local businessmen's group, which meets at The Hideaway in Ridgecrest, RAdm. Freeman will give a glimpse of what lies ahead at the Naval Weapons Center during the coming year, and for the immediate future thereafter.

Centerites interested in attending the Ridgecrest CoC luncheon are asked to make reservations by calling 375-8331 either this afternoon before 5 or early Monday morning.

In Bakersfield next Wednesday, the Skipper will join a panel of informed

speakers on subjects ranging from mineral, agriculture and oil production to retail sales and post-election economics. This 19th annual event, sponsored by the Kern County Board of Trade, will start at 9 a.m.

Both RAdm. Freeman and Major General Thomas P. Stafford, USAF, a former Astronaut who is now Commander of the Air Force Flight Test Center at Edwards Air Force Base, will speak during the morning session of the Kern County Business Outlook Conference.

"Business Prospects at the Naval Weapons Center in the Years Ahead" will be the subject of comments by the NWC Commander, while Maj. Gen. Stafford will discuss major programs at the Air Force Flight Test Center.

Keynote speaker during the afternoon luncheon program will be A. Alan Post, State of California legislative analyst, who will provide an expert's view of the state's fiscal future during a talk entitled "What's Ahead for State Government."

A turnout crowd of more than 1,400 persons attended last year's conference, it was noted by Joseph M. Gannon, president of the Kern County Board of Trade, who stressed the necessity for making advance reservations to attend this affair by calling the Board of Trade office, phone 861-2367, in Bakersfield.

TV booster...

(Continued from Page 1)

more timely fashion.

The new Channel 28 translator is needed to replace equipment formerly in use that was damaged during a lightning storm. Subsequently, makeshift equipment was put into operation by the TV Booster group to enable local residents with TV antennas oriented in the direction of Laurel Mt. to pick up Channel 28 programs on UHF Channel 49.

The Indian Wells Valley TV Booster Corp. was formed to replace the FM/TV Committee of the China Lake Community Council, and is headed by Dick Mahan, as president. Other officers and directors are Jim Rieger, secretary; Mike Ripley, treasurer; Don Stanton, publicity chairman; Fletcher, who is heading the fund-raising campaign, and Roy Roglin and Lyle Johnson, directors.

The TV Booster Corp. has made application to acquire by transfer the incorporation papers of the China Lake Community Council. This request has been okayed by the Federal Communications Commission, but final word on this matter has not yet been received from state officials in Sacramento.



FINAL ADJUSTMENTS MADE — George Campbell (at left), range engineer, and C. R. Warren, an ordnanceman, check over the Lightweight Gun Pod as it was being prepared for firing from a mount on the test pad at K-2 range. The gun's ammunition feed system is powered by a rechargeable nickel cadmium battery located in the aft section of the pod.

Gun pod firing test completed...

(Continued from Page 1)

certification; the Naval Air Test Center at Patuxent River, Md., flight certification and aircraft compatibility; and the Naval Air Engineering Center at Lakehurst, N.J., ground support equipment and survivability of the system for use on board ships of the Fleet equipped to carry aircraft.

In addition, Air Test and Evaluation Squadron Five (VX-5) at China Lake worked closely with Code 31's experts on the operational evaluation of the Lightweight Gun Pod.

Some redesign and repackaging to correct deficiencies brought to light by the technical and operational evaluation of the

GPU-2/A, which was completed in September 1973, then began. Among the major changes was a decision to use an electronic control package designed by Sam Miller, an electronics engineer in the Weapons Department's Electronics Systems Branch (Code 3924). This unit is capable of performing the same functions, yet is half the size and weight of a package designed by the contractor for the same purpose and represents a cost savings (due to a reduction of components).

The electronic control package is the "brains" of the Lightweight Gun Pod, since it starts, controls the rate of fire, and stops the firing of the gun.



PREPARING TO FIRE — George Campbell, range engineer at K-2, prepares to boreight the business end of the Lightweight Gun Pod, which was mounted on a firing test stand.

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Saddleback Sales team posts 3-game sweep, takes over lead in Premier Bowling League

The Saddleback Sales team has moved into a 1-game lead in the Premier Bowling League as the result of posting a 3-game sweep over Pollock Construction during this past Monday night's action at Hall Memorial Lanes.

The Hideaway keglers dropped back to second place with a 35-13 record and the Raytheon Sidewinders (33-15) are holding down the third place spot.

High team series for the night, a 2,928 total, was rolled by the Saddleback Sales squad, and high team game (1,002) went to the Fisher Plastering team.

High individual series for the night was turned in by Mike King, whose score was 682. Others over the 600 series mark were: Doug Fisher (661), Allen Smith (635),

George Barker (628), Jack Leininger (617), Roy Canfield (613), and Jim Bradberry (608).

Six Premier League bowlers topped the 220 single game mark. They were Fisher (276 and 225), Smith (268), King (246 and 224), Leinginger (246), Bradberry (226), and John Ito (221).

Current standings in the Premier League are:

Team	Won	Lost
Saddleback Sales	36	12
Hideaway	35	13
Raytheon Sidewinders	33	15
Hi-Desert	26	22
Pollock Construction	24	24
NAF Hawks	24	24
King Max	17	31
Credit Union	17	31
Fisher Plastering	14	34
Eik's Lodge	14	34



—Photos by PH3 B. J. Beckman



OLD NEWSPAPERS SOLD — Overflowing newspaper collection bins at the recycling center (located off Richmond Rd. at Santee St.) were emptied last week when, with the help of a church youth group, an estimated 20 tons of newspapers were loaded into a truck bound for a processing mill in Pomona. A portion of the proceeds from the sale (old newspapers bring in \$11 per ton) will go to Boy Scout Troop 848, whose members collected a ton of newspapers and two tons of cardboard. In photo at left, Jud Smith, co-chairman of the Community Recycling Committee, is shown as he turned over a check in the amount of \$271.32 to Phil Sprankle (at left), president of the Employee Services Board. The money was raised by the earlier sale of 19 tons of glass collected at the recycling center. Of this amount, \$112 has been turned over to the VFW for its contribution of 8 tons of glass. The remaining money will help repay an ESF loan that enabled the glass recycling pit to be paved and fenced.

DCC moves to new Ridgcrest address

The Desert Counseling Center, an outpatient psychiatric clinic that provides professional help to individuals or families who are experiencing emotional or social difficulties, moved from China Lake recently, and is now operating at its new location at 814 N. Norma St. in Ridgcrest. DCC counselors and staff members are working from offices temporarily housed in two large trailers. Regular office hours are 8 a.m. to 5 p.m. on weekdays, and evening appointments also can be arranged. The new telephone number to call to contact the Desert Counseling Center is 375-9781.

Next August is the target date for the start of construction on a permanent building to house the DDC. The new structure is expected to be completed by August 1978.

For more than 25 years prior to Dec. 31, the DCC (originally called Desert Counseling Clinic) had been located at China Lake.

County dog license tags expire in June

County dog license tags for 1975 through 1976 will not expire until June of 1977, according to Mark Saito, county health department animal control services coordinator.

Due originally to expire this past Dec. 31, the validation period was extended by county ordinance for 1975-76 tags (gold cross-shaped) an additional six months to June 31, 1977, when the new licensing period begins. Dog owners will be able to renew their pets' licenses in the spring at health department rabies vaccination and licensing clinics for dogs.

In June, dog owners can purchase the new one-year licenses. The new one-year tags will cost \$4 for dogs not yet spayed or neutered, and \$1 for others. The differential fee is intended to encourage spaying and neutering to help ease pet over-population problems in the county. No two-year tags will be available.

United Way fund drive falls short of meeting member agencies' needs

The coming year will be one of belt tightening in financial matters for member agencies of the United Way of Indian Wells Valley.

According to Dr. Adrian D. Baer, chairman of the United Way Budget Committee, the factors which contributed to this situation are: (a) "shrinkage," or the difference between the amount pledged and the amount collected last year was unusually high—about \$5,000; (2) there was a carryover of \$9,500 at the end of 1975 compared to \$856 on Dec. 31, 1976; member agency requests for 1977 increased, but less money was raised for the 1977 campaign.

Adopted at a meeting of the United Way of IWV board of directors during a meeting held at noon Tuesday was a financial report and allocations to member agencies for the coming year.

Anticipated income totalled \$88,218.81. This includes \$68,356.28 from the Combined Federal Campaign conducted at the Naval Weapons Center, \$18,226.19 collected from business places and schools in Ridgcrest, a carryover from 1976 of \$856.34, and \$780 in unused funds that are earmarked for a Boy Scouts of America pilot program.

The above total is to be divided as follows: \$75,152 for agency allocations, \$5,500 for "shrinkage", \$3,000 for pilot projects or new agencies' needs, \$2,000 for overhead, and \$2,566 for emergency needs, the cost of a yearly audit and operating expenses.

Allocations approved by the board of directors for the 17 member agencies of the United Way of Indian Wells Valley were as follows:

American Red Cross, \$10,500; Boy Scouts, \$8,500; Campfire Girls, \$2,150; Children's Home Society, \$640; Children's Hospital of

Los Angeles, \$2,350; China Lake Mountain Rescue Group, \$2,700; Desert Counseling Center, \$5,700.

Girls Scouts, \$8,800; Helpline, \$2,200; IWV Homemaker Service, \$4,700; IWV Association for the Retarded, \$6,500; IWV Campership Fund, \$500; Legal Aid of IWV, \$2,000; One-to-One, \$1,500; Salvation Army, \$16,000; Travelers' Aid, \$158, and United Service Organization (USO), \$254.

Three agencies were designated amounts in excess of their requests. They were the Children's Home Society, which asked for \$228 and was designated \$639.10; Children's Hospital of Los Angeles requested \$760 and was designated \$2,346.71; and the China Lake Mountain Rescue Group submitted a request for \$2,000 and was designated \$2,683.04.

Doris Burnett, treasurer of the United Way of IWV, reports that funds are distributed quarterly to member agencies after first receiving a statement of expenses covering the previous three months of operation.

Navy civilian suggestions save gov't \$19.8 million

Navy civilian personnel suggestions during Fiscal Year 1976 saved the Federal government \$19.8 million and won the Navy a national award.

The National Association of Suggestion Systems (NASS) presented the first place award to the Navy at its annual conference in Orlando, Fla., for excellence in suggestion programs performance.

The competition, open to all Federal government agencies, was based on a review of suggestion programs performance figures for all departments and agencies that are members of NASS.

Girl Scouts' cookie sale begins today

Girl Scouts of the Joshua Tree Council today began their annual cookie sale, which is to continue through Jan. 24. Orders are being taken now for cookies or crackers that will be delivered in March.

Members of Brownie and Girl Scout units will be making the rounds in their neighborhood taking orders for six varieties of

cookies as well as a cheddar cheese cracker.

New varieties this year are the cheddar cheese cracker and old-fashioned chocolate chip cookies. Other kinds of cookies also offered for sale are peanut butter sandwich, mint, vanilla and chocolate creme sandwich, shortbread and lemon creme sandwich.

Profits from the price of \$1.50 per box will be used to help finance the work of the Girl Scout Council and provide funds for local troop activities.

For the first time this year, according to Mrs. Carmen Losey, Joshua Tree Council product sales chairman, girls can earn gift certificates that will apply toward the cost of attending summer camp. In addition, a special summer camp session will be held for Girl Scout troops from throughout the council who do the best sales job.

Local residents who are not contacted at home may make arrangements to purchase cookies or crackers by calling Donna Stratton at 375-9613.



FIRST ORDER TAKEN — Rear Admiral R. G. Freeman III, NWC Commander, placed the first order at the start of the annual Girl Scout cookie sale, which began today and will continue through Jan. 24. Shown with the Skipper as this year's fund-raising event got under way are (l.-r.) Kimberley Casmer, Patricia Casmer and Linda Chrans, who are members of local Junior, Brownie and Cadette Girl Scout troops, respectively.

Trio Flamenco to be presented on Jan. 19 by IWV Concert Association

A performance by the Trio Flamenco, two master guitarists and a dancer, will be presented next Wednesday, Jan. 19, starting at 7:30 p.m. in the Center theater.

This, the fourth program of the Indian Wells Valley Concert Association's 1976-77 series, will feature guitarists Anthony and Michael Hauser and dancer Susanne Marie Hauser. Like many flamenco performers in Spain, Trio Flamenco is a family affair. Suzanne and Michael are married, and Michael and Anthony are brothers.

The three talented performers have been devoted to their chosen profession since

childhood. Each of them has spent from 10 to 15 years perfecting the difficult "language" of flamenco, which springs from classical roots in ballet and serious music.

The Trio Flamenco reportedly have mastered a baffling array of complex rhythms, along with many traditional melodies and expressive movements that have their origin in Spanish folklore. The group's program here will include a classic guitar duet by the Hauser brothers, who will play the works of Bach and Debussy, which will make up half the program. The remainder will be devoted to flamenco dance and music.

In the tradition of flamenco, the program will develop with spontaneity and improvisation as the dancer and musicians challenge and react to each other.

Group Formed in 1974

Guitarists Michael and Anthony Hauser and dancer Suzanne Marie formed Trio Flamenco in 1974 after more than ten years of independent professional performances. The brothers studied with the great flamenco teachers in Spain, including Luis Maravilla and the late Nino Ricardo and with Andres Segovia's classical guitar protegee Jesus Silva.

Suzanne Marie began performing professionally at age seven. At nine, she began to learn flamenco and classical Spanish dance. She has studied with flamenco masters in New York and in Madrid and Seville, and has taught flamenco at the University of Minnesota, the Guild of Performing Arts in Minneapolis and the Dance Center in Ottawa, Canada.

Together these artists have formed a group that is well equipped to bring the flavor of old Spain to the New World.

Tickets for admission to the Trio Flamenco program (depending on seat location in the Center theater) are priced at \$5, \$4 and \$3 for general admission. In addition, there is a half-price rate for youths under 21 years of age, senior citizens 65 or over, and enlisted military personnel.

Tickets can be reserved in advance by calling 375-5600, or purchased at the theater box office on Tuesday, between 4:45 and 6 p.m., or on Wednesday, between 4:45 and 7:15 p.m.

Happenings around NWC

Applications are now being taken for enrollment in a 3-day course in Engineering Economics that is to be held on Jan. 31, Feb. 1 and 2 at the Training Center.

Gerald Fleischer, from the University of Southern California, will be the instructor of this course, which is designed to assist engineers and scientists in making improved economic decisions and provide better information to management.

Included in the subjects to be covered will be types of cost analysis, forecasting methods, engineering analysis of investments, methods of comparing alternative investments, and adjusting for the effects of inflation.

Employees interested in attending this course must submit an enrollment form via proper department channels in order to reach Code 094 no later than Jan. 21.

IEEE To Meet Monday

The first luncheon meeting of the new year will be held on Monday, starting at 11:30 a.m., at the Commissioned Officers' Mess by members of the China Lake Section of the Institute of Electrical and Electronics Engineers.

Featured speaker will be Reuben E. Nyswander, a senior electronic design engineer in the Electronic Warfare Department's Missile Radar Branch.

Nyswander holds several patents related to radar developments and (in 1973) received both the William B. McLean and Technical Director Awards. The title of his technical presentation will be "Nanosecond Pulse Generators for Magnetron Operations." His talk at the IEEE meeting will be based on a paper he co-authored with Jerry Auger, head of Code 3544.

Late Registration at College

Late registration for people wishing to attend Cerro Coso Community College's spring semester will be conducted through Jan. 25 at the Office of Admissions and Records. Hours of registration are from 9:30 a.m. to 7:30 p.m. Monday through Thursday and 9:30 a.m. to 4:30 p.m. Fridays.

All high school graduates, non-graduates over 18 years of age, and high school juniors and seniors who have written permission from their principal, may enroll in the college's courses.

There is no tuition charged California residents; however, students are required to pay for books and supplies used in each course.

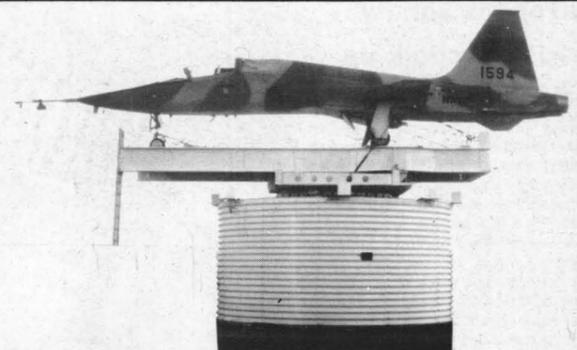
Further information and a copy of the college schedule of classes can be obtained by calling 375-5001.

Folk Music Program Set

Local folksinger Jim Strathdee will make a guest appearance at the Mindshaft Coffeehouse of Cerro Coso Community College tonight at 8:30.

This multi-talented performer is popular for his mellow renditions of traditional folk songs. Strathdee writes many of the compositions which he sings and has recorded such albums as "House at the End of the Road" and "There Is Still Time."

Tickets for his performance, priced at \$1.50 for the general public and \$1 for student body card holders, may be purchased at the door tonight.



USED IN INFRARED MEASUREMENTS TEST PROGRAM — The ground static test facility, which was designed at the Naval Weapons Center, was used during the static test phase of the HAVE ROBE Basic Measurements Program.

Technical Director Award presented...

(Continued from Page 1)

many different strong opinions were expressed by committee members, Kummer was successful in dealing with all the committee members and satisfying their desires without any technical loss to the program.

So exemplary were Kummer's efforts that the chairman of the Ad Hoc Committee for Project HAVE ROBE stated that it was the best infrared measurement program that has ever been conducted.

Taking the various inputs and objectives of the Ad Hoc Committee, Kummer formulated a test plan that included enough different types of measurements to satisfy every reasonable type of infrared measurement required.

Extremely Complex Program

This program, it was noted by those familiar with the work, was extremely complex and utilized the latest state-of-the-art technologies, especially in the area of engine instrumentation and infrared measurement technology.

Kummer's comprehensive knowledge of electro-optical devices and national infrared test group capabilities helped him to determine the types of devices and specific instruments which would best obtain the needed data. Thirteen different Army, Navy, Air Force and contractor test groups with more than 50 different instruments were selected.

Initially, a program of infrared measurements to be performed under this program was defined — based on a study of previous programs, including methodologies and equipment — and a study of project aircraft propulsion system instrumentation was undertaken to establish which of the many engine operating conditions should be measured.

Upon approval of the Ad Hoc review committee, test aircraft were instrumented and the infrared measurements program was conducted. It included ground based static tests, ground-to-air dynamic tests, and air-to-air dynamic tests.

Kummer, a 1964 graduate of the University of Nebraska with a bachelor of science degree in physics and mathematics, worked here as a summer student in 1965, 1966 and 1967. He received a master's degree in physics from the University of Washington in 1968, and was attending the University of California at Riverside just prior to becoming a fulltime Civil Service employee at NWC in November 1967. He has worked in the Weapons Department's Sensors and Platforms Branch, or its organizational forerunners, since that time.

Increase made in costs for CHAMPUS inpatient services

A new cost-share requirement is now in effect for inpatient care received from civilian sources by spouses and children of active duty Servicemembers under the Civilian Health and Medical Program of the Uniformed Services (CHAMPUS), the Department of Defense has announced.

Spouses and children of active duty Servicemembers must pay \$4.10 per day with a minimum cost-share requirement of \$25 if they are hospitalized for less than seven days. Previously they were charged \$3.90 per day with a minimum requirement of \$25 if they were hospitalized for less than seven days.

By law, the inpatient cost-share requirement under CHAMPUS for spouses and children of active duty Servicemembers is based on the charge at Uniformed Services hospitals.

Inpatient charges at Uniformed Services hospitals are adjusted periodically to reflect changes in Uniformed Services pay, according to a DoD spokesman. Dependents of active duty, retired and deceased Servicemembers also are charged \$4.10 per day for inpatient care at Uniformed Services hospitals.

The increase from \$3.90 per day to \$4.10 per day is approximately the same percentage increase as the pay raise that went into effect last October.

Mileage rate boosted for travel to new base

The permanent-change-of-station (PCS) mileage rate for uniformed members has been increased from 8 cents to 10 cents per mile. This is the maximum allowed by law. This change to the joint travel regulations applies to PCS orders issued after Oct. 27, 1976. Dependents will continue to be reimbursed at the old rates which are already at the legal maximum.



NEXT CONCERT PROGRAM — On Wednesday, Jan. 19, the Indian Wells Valley Concert Association will present the Trio Flamenco as its next program in the 1976-77 concert series. The trio will be featured in a varied program that will include duets for two classical guitars, in addition to the traditional music and dances of Spain.