

Cast, Stage Crew Prepare For Opening of 'Mikado'

With only two weeks remaining before the curtain goes up on the opening night performance, the students in Theater 27's drama class at Cerro Coso Community College are working feverishly to prepare Gilbert and Sullivan's "Mikado" for presentation to local audiences.

Fortunately, the same is not true of Louise Gillespie, the show's costume director. She, and her assistant, Margret Knemeyer, did the majority of their work weeks ago. At the moment, they are only adding the finishing touches to the bright and colorful kimonos that each member of the cast will wear.

Adhering to the strictest authenticity, "Wese," as she is called, has designed some of the most beautiful clothing to ever be worn on the local stage.

"A lot of the costuming for this show was bookwork," she emphasized. "Margret and I researched and researched, checking styles, colors, even the right kinds of fans to use," she elaborated.

Mrs. Gillespie is the daughter of Mr. and Mrs. W. S. McEwan. He is head of the Research Department's Chemistry Division. Ever since she was a small child she has been a fan of Gilbert and Sullivan. Some know her as a "buff." In point of fact, she can sing right along with the actors and actresses and knows each number, and each move, in the production.

Bud Sewell, who will portray the Mikado, and Jack Lindsey, who has been assigned the role of Ko-Ko, have talked with her about how the roles have been done by others.

Sewell, who is also a "buff," along with Dr. Peter Hammond, who will enact Pish-Tush, and Mrs. Gillespie make an experienced trio of knowledgeable Gilbert and Sullivan fans for the rest of the cast to draw upon.

At one point in her life, Mrs. Gillespie was a professional costumer. She was employed by Center Stage, a repertory theater in Baltimore, Md., for one year. In addition, she was the costume designer for student productions at John Hopkins University, also in Baltimore.

She first got interested in costuming for theater prior to majoring in the art at Mills College, Oakland, Calif., and she continued that study at UCLA.

Mrs. Gillespie stated that she could not have done such costuming work for "Mikado" without the help of Helena Stoessel, who owns the Yardage Shop in Inyokern.



LAST TWO PERFORMANCES—The CLOTA musical production of "1776" will wind up a five-performance run tonight and tomorrow night at the Burroughs High School Lecture Center. Curtain time is 8:15. Last weekend's enthusiastic audiences are talking about the excellent work done by the two men in the photo, William Blanc (left), director of the production, and Alex Bellen, who portrays John Adams. Blanc, who directed "Mame," for CLOTA last season, has brought the lives and times of the men who signed the Constitution to the local stage with great reality. Bellen, who is currently in his third leading role for the local amateur theater association, creates the role of Adams with gusto. Tickets, priced at \$2.50 for adults and \$1.25 for children, are on sale at the Station Pharmacy and at the Gift Mart in Ridgecrest. They also will be available at the door of the Lecture Center prior to each performance. —Photo by Herb Hewston

Fund-Raising Event Set By Square Dancers March 30

Plans have been announced for a fund-raising dance that will be held on the evening of Friday, March 30, for the benefit of the Desert Empire Fair's building fund.

Co-host for this special evening of square dancing will be the Cactus Squares and Jim Dandies Square Dance Clubs, and the event itself will take place in Joshua Hall, permanent exhibit building at the fairgrounds.

Callers for the benefit dance will be Jim Brown from Ridgecrest, Buck Covey from Barstow, Bill Grady and Ivan Hall from China Lake, Bob Nipper and Skip Uhlig from Lancaster.

Bob Etherington will cue the round dances between the square dance numbers.

All local residents are invited to attend as spectators, or to dance. A member of the Desert Empire Fair board of directors will be at the door to accept \$2 donations from dancers or donations of 50 cents from viewers.

Committee members in charge of planning the benefit dance are Mr. and Mrs. Herb Toles, president of the Jim Dandies; Mr. and Mrs. Ben Tozer, president of the Cactus Squares, Mr. and Mrs. Richard Joyce, Mr. and Mrs. Bill Pennicke, Mr. and Mrs. Cecil Daley, Mrs. Edie Bell, Mr. and Mrs. Carl Morley, and Mr. and Mrs. Lou Sidney, representing the Desert Empire Fair board.

Surplus Gov't Property Auction Slated Tuesday

Bargain hunters interested in having an opportunity to get in on the purchase of surplus government property are invited to take part in an auction that will be held next Tuesday, starting at 9 a.m., at the Community Center.

For the convenience of prospective bidders, an "open house" policy will be in effect Tuesday between 7 a.m. and noon at gates leading into the Naval Weapons Center.

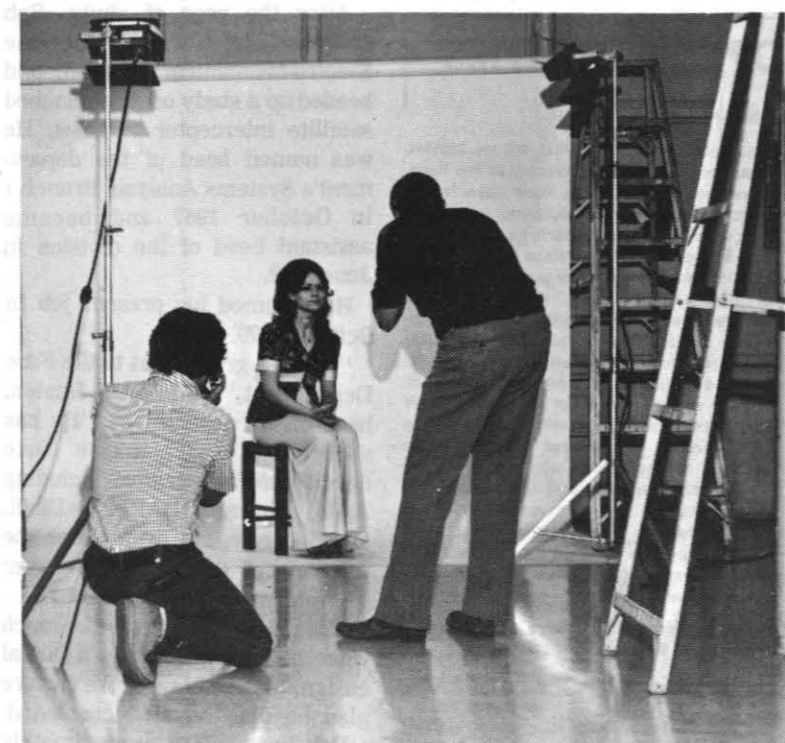
Anyone desiring to participate in the auction must register between 8 and 9 a.m. Tuesday at the Community Center by presenting identification (a driver's license or bidders' identification card). At the time of registration, a bidders' paddle will be issued.

The surplus government property that is to be auctioned off to the highest bidder can be inspected until 3 p.m. today, or between 8 a.m. and 3 p.m. Monday, at the NWC scrap and salvage yard or in the property disposal warehouse.

The list includes generator sets, pickup trucks, 2-ton trucks, trailers, office machines such as

typewriters and calculators, miscellaneous electronics gear and mooring buoys (can be used as water tanks).

With few exceptions, anyone 18 years of age and over may bid on Department of Defense surplus property, which must be paid for in full prior to taking delivery. Successful bidders will be allowed five days time to remove their purchase before storage charges are applied.



STELLAR ATTRACTION—Kathy Trenholm, a teller at the Community National Bank in Ridgecrest is shown posing for a pair of photographers who took part in the "camera shoot" portion of last weekend's Photo Fair. Don Winter (at right) and an unidentified shutterbug from out-of-town are shown as they practiced their camera technique. The Photo Fair, which was attended by hundreds of visitors, is sponsored annually by the China Lake Photographic Society. This event, held at the Community Center, attracted entries from dozens of photographers from throughout the local area.

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.
Matinee - 1 p.m.

FRI. 16 Mar.
"THE ANDERSON TAPES"
(STD 98 Min.)
Sean Connery, Dyan Cannon
(Suspense Drama) The story of an epic million dollar robbery of a luxury apartment building on New York's fashionable upper East Side. (PG)

SAT. 17 Mar.
—MATINEE—
"LATITUDE ZERO"
(CS 99 Min.)
Joseph Cotton, Cesar Romero (G)

—EVENING—
"HUSH, HUSH, SWEET CHARLOTTE"
(STD 134 Min.)
Bette Davis, Olivia DeHavilland
(Horror Drama) A wealthy southerner stops his daughter from running off with a married man, and later the man is found dead. The daughter's mind is affected, and no one is sure of the assassin. Thirty-seven years later, the case is reopened (rating not available).

SUN. & MON. 18-19 Mar.
"STIGMA"
(STD 94 Min.)
Philip M. Thomas, Peter H. Clune
(Drama) Philip Thomas, playing a black doctor, arrives at an island for him dead from a heart attack. The doctor has left a tape discussing the epidemic but the tape runs out before telling Thomas what it is. (R)

TUES. & WED. 20-21 Mar.
"AVANTI"
(STD 134 Min.)
Jack Lemmon, Juliet Mills
(Comedy) Jack Lemmon, a high-pressure U.S. executive comes to Italy's sunny countryside to claim the body of his father killed in a car accident. To his surprise, he discovers that his father had a mistress who was also killed in the crash. Juliet Mills, as the daughter of his dad's mistress, is also in Italy to claim her mother's body and take her back to London. A comic snuggle of red tape follows. (R)

THURS. & FRI. 22-23 Mar.
"THE COWBOYS"
(CS 128 Min.)
John Wayne, Roscoe Lee Browne
(Western) News of a gold strike prompts all of John Wayne's ranch hands to leave their jobs before a big cattle drive. Bartender Slim Pickens suggests that Wayne use schoolboys as wranglers. (PG)

Nominees Being Sought To Fill Council Vacancy

Nominees are currently being sought to fill a vacancy on the China Lake Community Council board of directors.

The post which is open is that of representative from combined Precincts 3 and 7.

Persons 18 years of age and over living within either Precinct 3 or 7 at China Lake are eligible for consideration.

Those interested in serving on the Community Council are asked to contact either Marion Carter, by calling NWC ext. 3575, or Mary Raynor, phone 448-7517, no later than Friday, April 6.

Bicycle Club To Meet Tues.

The repair and care of de-railers will be the topic of discussion at the next meeting of the Indian Wells Valley Bicycle Club, which is to be held at 7:30 p.m. Tuesday in Room N57 at Burroughs High School.

The discussion about de-railers is the next installment of a series of topics dealing with bicycle care.

All bike riders are encouraged to attend, even if they are not members of the club.

For more information, contact Bev Elliott at 446-4944.

From _____

TO _____

PLACE STAMP HERE



Naval Weapons Center
China Lake
California

Vol XXVIII No. 11



SPECIAL EFFORT RECOGNIZED—Plaques and citations denoting significant contributions to the Indian Wells Valley United Fund were presented during last week's annual meeting of the community-wide service and charity organization. The recipients, and the firms or organizations they represented, were (from left) Dr. Michael O'Lane, Drummond Medical Group; Don Romine, Continental Telephone Co.; Jean Swedblom, Comarco Engineering; Harry Parode, Texas Instruments; Kenneth Day, Southern California Edison Co., and Andy Cook, Control Data Corp.

Achievements of United Fund Reviewed, Awards Presented

Officers, directors and representatives of member agencies of the Indian Wells Valley United Fund met last week to review accomplishments of the past year, award special recognition to groups and individuals whose efforts contributed to the success of the 1973 campaign, and install a slate of new officers who will carry on the work of this community-wide service and charity organization for another year.

In addition to the award presentations, the evening was highlighted by a talk on "Opportunities for Mental Health Services in Indian Wells Valley" that was presented by Dr. Ellis W. Cline, executive director of the Desert Counseling Clinic.

Bill Danley, outgoing president of the United Fund who had for several years previous to this time served as treasurer, summed up his feelings about what has taken place over the past year by stating

in his opening remarks: "This past year we finally got it all together." Danley, who stepped down from the office of president of United Fund board to become second vice-president, noted that the success of the past year's effort was due to an active and interested board of directors. "It's marvelous to see people dedicated to seeing that most of the dollars go where they're most needed," he said.

While the amount of contributions from Ridgecrest to the IWV United Fund doubled compared to the previous year (hitting the \$11,000 mark), there's still a selling job that remains to be done, Danley pointed out, since the overall total of around \$63,000 contributed to the United Fund fell short of agency requests that were in excess of \$80,000.

Danley concluded his remarks by thanking his fellow United Fund board members for their efforts during the past year.

Award presentations were handled by David Henderson, chairman of the 1973 IWV United Fund campaign, who presented plaques and certificates.

Dr. Michael O'Lane was singled out as the campaign's top individual donor for 1973. In stepping

(Continued on Page 3)

Test Support Division Handles Many, Varied Responsibilities

By Jack Lindsey
In the first two installments of the article dealing with the Naval Weapons Center's ranges, information about the history,

background and current operations of the Air Operations Division and the Ground Operations Division of the Engineering Department was presented.

This third article tells about the Engineering Department's Test Support Division, headed by Les Garman until his retirement on March 2.



DATA REDUCTION BRANCH—Joe Dorgan (center), a Civil Service employee of the Data Reduction Branch in the Engineering Department's Test Support Division, talks over a series of analyses with Tom Severson, while Sarah Miller reads 35mm film from an Askania camera. Severson and Mrs. Miller are contractor employees. All three work at the Control Data Corp. building in Ridgecrest. Bruce Wertenberger heads up the branch.

The Test Support Division (Code 573) is responsible for the Center's radio frequency management, range instrumentation planning and development, range facilities and equipment planning and design, Public Works range maintenance work coordination, reduction and analysis of test data, technical coordination of contract computer services and test data reduction.

In addition, the division performs the operation and maintenance of range communications, timing and television systems, and modification and major maintenance of tracking camera systems.

To meet these responsibilities, the division employs civil, electrical, electronic and mechanical engineers and technicians. New professional employees assigned to the division work with engineers, physicists, and technicians on major projects and, in addition, carry out assigned minor projects.

The division is divided into five branches—the Frequency Management Group, headed by H. R. Roglin; the Instrumentation Development Branch, led by W. T. Lamb; Range Facilities Branch, with C. T. Daley as branch head;

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COLLEGE DEAN VISITS NWC—Dr. H. S. Smith (at right), dean of the College of Engineering at the University of Idaho, was the recipient of an NWC plaque as a memento of his recent visit to China Lake. The plaque was presented by Capt. D. W. Alderton, NWC Deputy Commander. Dr. Smith was here for two days to renew his acquaintance with the more than 30 U. of Idaho alumni now working at China Lake, and to obtain firsthand information on the Center's hiring policies and recruiting programs. During his visit, the college dean was the guest of honor and speaker at a dinner held at the Commissioned Officers' Mess that was attended by U. of Idaho alumni and their spouses.

PROMOTIONAL OPPORTUNITIES

Applications for positions listed in this column will be accepted from current NWC employees and should be filled with the persons named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment Division, Code 452, Extension 2069. Current applications (SF-171) or Standard Form 1972 should be submitted bringing your work history up to date if one has not been submitted within the last 6 months. The fact that positions are advertised in this column does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and most recent previous supervisor. Selection shall be made without discrimination for any nonmerit reason.

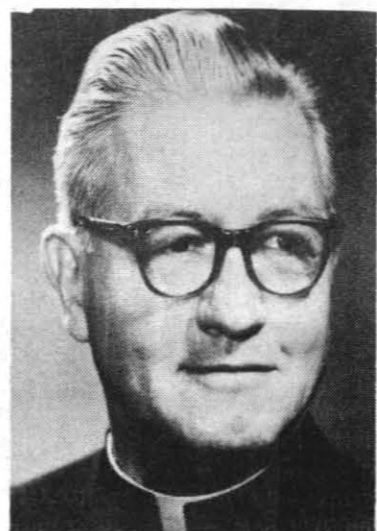
Electronics or General Engineer, GS-855 or GS-801-12, 13, or 14, PD No. 7240269, Code 4008 — Refines and integrates avionics subsystems into the total aircraft weapon system insuring that system functional requirements for aircraft avionics data management and system interfacing are met. Provides the Advanced Aircraft Systems Program Office with written evaluations of emerging avionics related technologies (large scale integration, multiplexing, etc.) emphasizing critical development characteristics and suggesting how they can be developed, tested and evaluated. Directs and participates in the design and development of avionics subsystems, acts as consultant on avionics problems at NWC and provides inputs to advanced weapons concepts. Participates in conferences with DDR&E, CNO and NAVAIRSYCOM and assists in study efforts on hardware problems relating to fighter-attack aircraft avionics systems with contractor and supporting agencies. Job Relevant Criteria: Extensive experience with aircraft avionics data management and system interfacing requiring the definition of operational critical factors. Recent experience in design or application of modern airborne digital computers and data management equipment. Minimum Qualification Requirements: As defined in CSC Handbook X-118.

File applications for above with Elizabeth Sodergren, Bldg. 34, Rm. 204, Ph. 2676. Elevator Mechanic, WG-5313-11, JD No. 281, Code 7631 — Inspects, tests, overhauls and repairs various types of automatic, semi-automatic, or manually operated freight or passenger elevators making both mechanical and electrical repairs and adjustments. Minimum Qualification Requirements: Rating will be on the basis of the appropriate J-Elements Standard in accordance with the CSC Handbook X-118C.

File applications for above with Carol Downard, Bldg. 34, Rm. 210, Ph. 2393. Clerk - Dictating Machine Transcriber GS-316-3-4, PD No. 7130148, Code 3953 — Position is located in the Mechanical Design Branch. Incumbent provides secretarial type assistance to the branch head and clerical assistance to the branch staff as needed. Has complete responsibility for planning, setting up and maintaining files and records, receiving and distributing mail for the branch.

Educator To Present Talk About Family and Values

A lecture entitled "The Family and Values" by a nationally renowned educator, the Rev. Fr. John R. McCall, S.J., director of the Institute for the Study of Religious Education and Service at Boston College, will be presented consultant.



Fr. John R. McCall, S.J.

at 7:30 p.m. Monday at the Naval Weapons Center's All Faith Chapel.

Fr. McCall, who has a master's degree in both philosophy and psychology and a doctorate in clinical psychology, is a professor of psychology of religion at Boston College. He also serves as a psychological counselor for an inner-city day care center in Boston.

Arrangements for Fr. McCall's appearance here were made by Lt. Aquinas Smith, Catholic chaplain at the All Faith Chapel, who reports that Fr. McCall is not only a perceptive psychologist but is also a very gifted speaker.

"He has a way of entertaining and educating at the same time," Chaplain Smith said.

Fr. McCall has written courses for teenagers in "Hi-Time" and for parents in "Focus on Hope." His latest book, "For Parents and Teachers: Playing It Straight With Youth," is based on his experience as a counselor and psychological

All interested persons are invited to attend Monday night's lecture and share in the insights of this nationally known educator.

Special Rates For Military Set In Anaheim Area

Members of the United States Armed Forces can look forward to a weekend of fun and relaxation in the Anaheim entertainment area at reduced prices on six special dates.

Today, tomorrow and Sunday, and March 23, 24 and 25 have been set aside and designated as "Armed Forces Weekend" at the many different attractions and entertainment spots in the popular Orange County area.

Disneyland will feature a special "weekend pass" ticket book which includes Saturday and Sunday admission and 12 adventures or attractions for only \$5.25, a \$17.20 value, to servicemen or women. These tickets are on sale only at the Community Center at NWC, and not at Disneyland.

Other attractions in the Anaheim area which will cater to members of the Armed Forces include the Movieland Wax Museum, Lion Country Safari, Knott's Berry Farm, Japanese Village, the Briggs Cunningham Automotive Museum, the Cars of the Stars showplace, Orange County International Raceway and the Glacier Falls ice skating arena.

Interested persons should contact Art Amos at the Community Center, NWC ext. 2010, to find out more information about special discount coupons and reduced rates for this weekend and next.



COST STUDY CONTINUES—A design-to-cost study of the Sidewinder AIM-9L fuze has been in progress at the Naval Weapons Center for six weeks. Among the participants is H. K. MacKechnie (2nd from right), of the Department of Defense Product Engineering Services Office. Holding the fuze, MacKechnie is explaining the fine points of the study to V. P. Cavanaugh (center) a representative of the Naval Air Systems Command (AIR 5234). Others listening to the explanation are (on left) R. D. Gilbert, also from the DOD Product Engineering Services Office, and J. R. Willis, of the NWC Fuze Department, and (at right) Cdr. R. B. Phinizy, USNR. The technical study, under the guidance of Gilbert, has been greatly enhanced by the work of members of Naval Air Systems Command Reserve Units who have been assigned here for training duty. The design-to-cost study will provide NAVAIR with greater confidence in the production cost of the fuze.

Desert Counseling Clinic To Observe 22nd Anniversary at March 28 Dinner

A dinner marking the 22nd anniversary of the Desert Counseling Clinic has been scheduled on Wednesday, March 28, at the Commissioned Officers' Mess.

Guest speaker for this occasion will be Dr. George Lehner, a

social hour will precede the 7 p.m. dinner, which is to be followed by the installation of new officers of the Desert Counseling Clinic's board of directors, short reports on clinic activities, and the talk by Dr. Lehner.

"Relating With Others: Ordeal or Opportunity" will be the subject of the talk by Dr. Lehner, whose special interest is in the application of behavioral science knowledge in socio-technological systems.

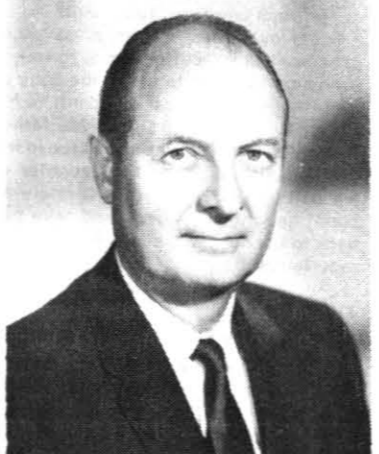
An extra dividend is expected to be the participation on the program of the speakers' wife, Eleanor, who is a poet. She has been invited to share her experiences in the creative aspects of personality growth.

For 15 years, Dr. Lehner has been director of the UCLA

Psychological Clinic. He is a former president of the Southern California Psychological Association and the Society of Clinical Psychologists, and has served as a consultant not only to the Navy, but to various U.S. government agencies, city and state agencies, to some foreign governments, and to many companies and organizations as well.

Officers of the Desert Counseling Clinic's board of directors will be installed at this annual dinner meeting are Lois Allan, president; Dr. Fred Essig, president-elect; Don Winter, secretary, and Marjorie Vargas, treasurer.

Tickets to the dinner can be ordered by calling the Desert Counseling Clinic at NWC ext. 3761 before next Friday, March 23. Donations are \$6 per person.



Dr. George Lehner professor of psychology at UCLA, who for many years has been a consultant on organizational development to the Naval Weapons Center.

PROMOTIONAL OPPORTUNITIES

(Continued from Page 2)

Types correspondence, letters, memos, technical reports and studies from handwritten material and dictating equipment. Minimum Qualification Requirements: As outlined in X-118.

File applications for above with Dora Childers, Code 457, Rm. 210, Ph. 2022.

Electronics Technician GS-856-7, PD No. 735907, Code 5523 — Operates specialized equipment during laboratory and environmental tests, modifies and repairs the guidance electronics-control hardware on Sidewinder missiles, constructs and evaluates special test equipment and missile electronic circuits, conducts data collection, reduction, dissemination and reporting. Minimum Qualification Requirements: Outlined in CSC Handbook X-118. Job Relevant Criteria: Ability to trouble shoot and repair test equipment for missile performance tests, ability to interpret and apply test procedures, ability to work independently.

Electronics Technician GS-856-11, PD No. 455016 Aml, Code 5539 — Incumbent designs and measurement of radiation and designs and constructs equip. and devices for protecting portions of the weapon system from accidental activation by RF energy. Incumbent writes test reports and specifications for manufacture. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Ability to work independently. Thorough knowledge of the principles of electronics. Comprehensive knowledge of transistors and their circuitry. Ability to use and interpret results from advanced test instruments that measure the relationship between resistance, inductances and capacitance in complex circuits.

File applications for above with Pat Gaunt,

Bldg. 34, Rm. 212, Ph. 2514.

Secretary (DMT), GS-318-5, PD No. 7150044, Code 504 — Serves as secretary to the head, Development Division II, Fuze Department. Handles incoming and outgoing correspondence and all progress reports for the division. Keeps supervisors apprised of all office details and activities and of any problem areas or adverse situations. Establishes and maintains an efficient program for the efficient management of the division clerical work. Minimum Qualification Requirements: Two and one-half years experience in typing or clerical work, 6 months of which must have demonstrated secretarial ability plus 6 months experience as a principal personal office assistant to a supervisor which has included participation in his work and included duties of a secretary. Job Relevant Criteria: Familiarity with Navy correspondence and filing procedures. Must be a qualified typist and possess ability to use the dictating machine transcriber.

File applications for above with Charlotte Sieckowski, Bldg. 34, Rm. 204, Ph. 3118.

Clerk-Typist, GS-323-3 or 4, PD No. 7359318, Code 352 — This position is located in the RF Development Division, Electronic Systems Department. The incumbent schedules meetings and conferences, receives and screens office and telephone callers, screens incoming correspondence, maintains files and types a variety of correspondence and reports. Minimum Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Must be able to work independently, exercise good personal judgement, have thorough working knowledge of grammar and punctuation and be a skilled typist.

File applications for above with Sue Prasolowicz, Bldg. 34, Rm. 204, Ph. 2577.

Employee In The Spotlight



Robert M. Hillyer Recognition Committee. In addition, since coming to China Lake, he has been involved with the selection of science and engineering courses available at the NWC Training Center.

Transplanting a career and family is not an easy thing to do.

After spending 14 years in the same location, adjusting to the community, raising a family, completing an education and becoming involved in the society, Bob Hillyer picked it all up and came to China Lake from Corona two years ago.

"The job's the same, so the move hasn't been too disastrous," he said. "Besides, this is a real fine community and it's close to all the things we like to do," he added.

The cheerful head of the Fuze Department's Development Division II first came to Corona in 1967 as an ensign in the U.S. Navy. Born in Sayre, Pa., Bob was graduated from William Penn High School, York, Pa., and attended the University of Idaho, in Moscow, as a mechanical engineering major under the Navy's Hallway Plan Fellowship.

After receiving his BSME, he was inducted into the Navy and spent an entire three year tour of duty at the Naval Ordnance Lab, Corona.

"Some of the early projects that I was involved with at that time were Sidewinder 1A and Sidewinder 1C. I worked on the safety arming device and contact on those two models," he said. "In addition, I interfaced between Corona and China Lake's Sidewinder office for all fuzes," he recalled.

Bob liked it so well at Corona, that when he received his discharge from the Navy in 1960 he stayed on with the Fuze Department's Electro-Mechanical Division as a mechanical engineer. In 1962 he entered the fall semester of UCLA to earn his master's degree.

"I attended school half time and was awarded the degree in 1964 with a specialty in dynamics," he stated. In September 1964, Bob began work on his doctorate, studying under a WEPPOSE Fellowship. He needs only to write his dissertation to receive the degree.

After the year of study, Bob returned to Corona with the Electro-Mechanical Division, and headed up a study on sea-launched satellite interceptor vehicles. He was named head of the department's Systems Analysis Branch I in October 1967 and became assistant head of the division in June 1968.

"Bob is a great asset to the Fuze Department," said Ben F. Husten, head of the department. "He has several of our major fuze development programs, including Agile, Phoenix, HARM, AIM-9L and Sparrow, but even under the pressure of this work, he never gets unnerved," he continued.

"He liked the work so much when he was with us as a Naval ensign, that he stayed. We're sure glad he did," Husten concluded.

Bob has written approximately 15 publications and he holds a patent on a high-voltage, low-cost switch for electro-explosive devices.

A busy man on the job, he has been active in the past with job-oriented panels and committees, such as the recruitment panel and his department's Performance

advisory committee on computer equipment used at NWC. In 1966, Bob was selected for listing in the "Outstanding Young Men of America" publication.

He met his wife, Luverne, in Corona and the couple was soon married. They have four children, Gina, 17, a senior at Burroughs High School; Linda, 16, a sophomore at BHS; Michelle, 12, a seventh grader at Murray School, and Thomas, 10, who attends the fifth grade at Richmond School.

The Hillyer family enjoys the outdoors and frequently journeys to Mexico and Northern California where they indulge in camping, skiing, hunting, fishing, water skiing and hiking.

Bob lists his favorite spot as Lake Almanor, near Mt. Lassen. "I don't have any hobbies other than those I share with the family," he said, "but Luverne is pretty active."

His wife is a member of WACOM, works in the Thrift Shop run by that organization, and for a pastime she constructs feather boxes and window boxes for plants.

"Her big hobby is gardening," says Bob. "She does a lot of work outdoors on the yard and working with plants and flowers," he explained.

Class in Career Development For Women Planned

Janice A. Kay, a vocational consultant, will be at China Lake on March 20, 21 and 22 to conduct a class in Self-Directed Career Development for Women under the Personnel Development Opportunity program at NWC.

Eleanor Johnson, Federal Women's Coordinator at the Center, has scheduled Mrs. Kay to speak at the American Society for Public Administration luncheon next Wednesday, beginning at 11:30 a.m., at the Commissioned Officers' Mess.

The vocational consultant's topic will be "Getting It All Together, Discreetly."

The public is invited to attend. Reservations are required. Those who plan to attend should call 446-2549.

Library Lists New Books

LIBRARY HOURS: Monday-Friday: 2-9 p.m. Saturday: 10 a.m.-4 p.m.

Readers are reminded that all employees, regardless of residence are most welcome to use the Center Library.

FICTION: Carpenter — Flight One. Cookson — Mallen Streak. Deal — Winner. du Maurier — Rule Britannia. Forbes — The Sad, Sudden Death of My Fair Lady. Gerson — The Sunday Heroes. Hesky — The Different Night. Hodge — Strangers in Company. Langguth — Wedlock. Owen — The Film-film Man and The Apprentice Grifter. Simonen — Malignant and the Wine Merchant. Sjolwall — The Abominable Man.

NON-FICTION: Buckley — Inventing We Will Go. Cole — Our Children's Keepers.

Danzig — The Fireside Book of Tennis. Disney — The Splendid Art of Decorating Eggs. Egan — Sand in the Whirlwind. Jensen — The Cod. Pierson — Moving American. Pluckrose — The Book of Crafts. Poque — Turquoise.

Book Review Group

The next meeting of the American Association of University Women's (AAUW) Book Review Group will be held Monday, starting at 1:30 p.m., at the home of Mrs. Lorrie Van Hagan, 642 Tricia Court, Ridgecrest.

Kay Joseph will review "Waiting for the Morning Train," by Bruce Catton.

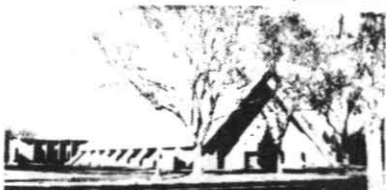
The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake, California

RAdm. Henry Suerstedt, Jr. NWC Commander

H. G. Wilson Technical Director

C. E. Van Hagan Head, Technical Information Department



DIVINE SERVICES

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

ROMAN CATHOLIC: MASS 1700 fulfills Sunday obligation Sunday 0700 0830 1130

BLESSED SACRAMENT CHAPEL: MASS 1135 Daily except Saturday First Friday only 1135 1700 CONFESIONS 1545 to 1645 Sunday 0800 to 0825

CCD CLASSES: Sunday Kindergarten thru 6th grades 1015 Wednesday Seventh and 8th grades 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: Friday, 1st and 3rd ONLY Sabbath Services 2000 Saturday Sabbath School 0900 UNITARIANS: CHAPEL ANNEX 95



DEADLINES: News Stories Tuesday, 4:30 p.m. Photographs 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 NavExOS P35, revised July 1958. Office of Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense. Phones 3354, 3355, 2347 Sunday Services 1930

(Continued on Page 7)



HELPING HAND PROVIDED—Classes utilizing the Laubach method of teaching English as a second language are currently being held on Monday mornings at Chapel Annex No. 4 on the Naval Weapons Center. The class is directed by Mrs. Lucille Bergthold, who began this work last November with two students. Since the group has now grown to 10 and a 11th member is expected to join the class soon, Mrs. Bergthold is being assisted by Mrs. Donnie Woods and Mrs. Mary Payne, as teachers. The course covers conversational English, reading and writing, as well as preparation for U.S. citizenship. The class, which includes Bible study, is taught with a Christian emphasis, however, it is non-denominational. There is no charge for the lessons, since those who direct or teach volunteer their help. Anyone interested either in joining the class as a student or becoming a tutor (this takes 30 hours of training) is asked to contact the NWC All Faith Chapel. Students and instructors (shown above) are seated l.-r. Fusae Booth, Kimi Legg, Swako Chester, Reiko Huffman, Mitsko Rebetov, Swako Emde, Kikue King and Terri Vigneault. Standing are (from left) Fumiko Booth, Mrs. Woods and Mrs. Payne, teachers; Mrs. Bergthold, the director, and Mary Bushdorff.



In The Catbird Seat
By Jack Lindsey

Occasionally, while visiting various Special Services facilities, such as the bowling alley (Hall Lanes) and the golf course, I get zapped about articles on the sports page of The ROCKETEER.

Sometimes, the kidding is in a helpful vein, such as "Why don't you run . . ." and I find that the suggestion, once all of the verbal icing has been removed, to be a good one.

I appreciate any suggestion from readers about coverage of sporting events in this paper, as does any member of The ROCKETEER staff.

Once in a while, however, things which are planned to be covered, don't always get into the paper. Most of the time the stories are written and set to type, but space won't permit inclusion of the article in the newspaper, and then the following week, it's old news. So, the story falls by the wayside.

Generally, when this happens, I come under fire for the article not being printed, and this is okay, too, because it's all part of the job. Nine times out of 10, when I explain why the story didn't make it, people understand. The one person in 10 who doesn't understand is not looking at what I call "the big picture."

I have a duty and obligation first to The ROCKETEER, itself, and secondly to the public that reads it. Therefore, I am willing to discuss why a sports item doesn't get printed and stand ready to do my best to present the news in some other fashion the following week.

By the same token, I ask that those who have a gripe contact me for an explanation, rather than grumble aloud to the community at large. I'm sure that an equitable solution can be worked out in most cases.

Volleyball Team Gets Spiked At Annual MDISL Tournament

The Naval Weapons Center's entrant in the Mojave Desert Interservice League volleyball tournament, held last weekend at 29 Palms Marine Corps Base, finished out of the money for the first time this season in MDISL competition.

"We played well and gave the leaders some real tough games," said Jerry Kissick, player-coach of the China Lake team.

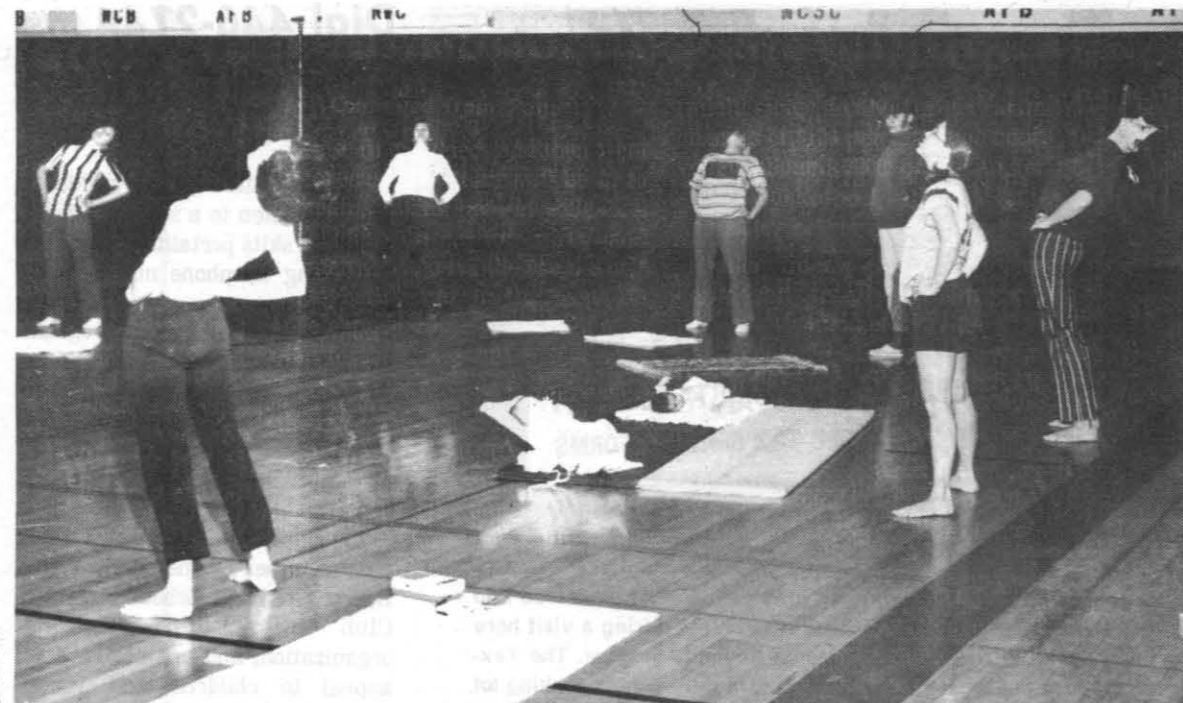
Nellis Air Force Base won the tournament by defeating the Norton AFB contingent in a play-off game. Norton finished a grueling one-hour, 15-8, victory over China Lake and went right into the play-off contest against Nellis.

"We feel that we were probably instrumental in causing Norton to lose, as we gave them a tough contest," chorused Chuck Jones and Dick Sullivan, two outstanding China Lake players.

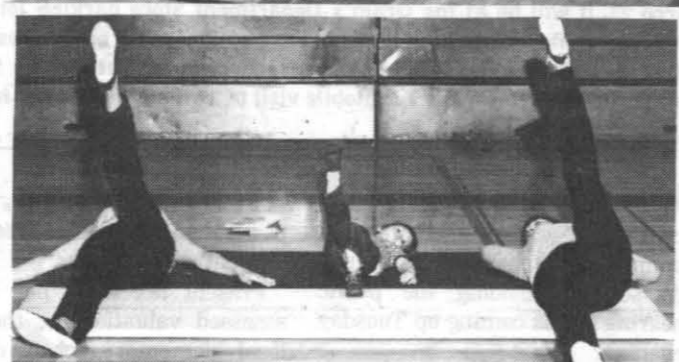
The over-all MDISL standings for the 1973 season show NWC tied for second place with 29 Palms and George AFB. Each team has 45 points, Norton AFB is on top with 48 points.

In the major sports category (flag football, basketball, volleyball and softball), NWC is in third place with 34 points behind 29 Palms (35) and Norton (38).

In addition, NWC is also in third place in the minor sports competition (handball, bowling, tennis and golf). China Lakers have picked up 11 points, 2 behind Los Angeles AFB and 4 tallies in back of George AFB, in the minor sports category. Only one of the minor sports events (handball) has been played thus far and China Lake finished third.



KEEPING FIT — The mystery about how so many wives have managed to keep their figures (or regain them) has been solved. Peggy Stratton (left foreground) holds a regular Thursday a.m. exercise class for women in the Center gymnasium from 9 to 10:30, and also on Monday evenings from 7 to 8. There is a nominal fee of 50 cents per visit charged those who attend. New mothers have found this a convenient way to lose unwanted inches and, as the photos show, babysitting is no problem.



Roby Wins Singles; Revels, Fisher Take Doubles in City Bowling Tourney

Earle Roby fired a 679 scratch series to win the singles crown in the annual Ridgecrest-China Lake Men's Bowling Association's City Tournament last weekend, finishing with a 721 (with handicap).

Bert French and Don Beach tied for second place in the singles division with series scores of 709, including handicap, and Duane Goff reached 706, good for fourth position. Richard Becker's 703 got him the fifth place award.

John Revels and Doug Fisher both got hot at the same time and ran away with the doubles title. Revels smashed a 669 scratch series and Fisher aided the cause with a rousing 655 scratch total, to give the pair a 1420 (with handicap) tally.

Keith Morgan and Ray Davis shot 1343, good for second place, and Chuck Albright and Bernie Baake took the third spot with 1285 pins. James Elliott and John Browning missed third place by one pin and settled for fourth spot with a 1284 total.

Highest game bowled was a 268 by Thad Brightwell. Roby cracked out a 256 single and Baake managed to topple 254 pins in a single game effort.

The tournament will continue this weekend with the team events at Ridgecrest Lanes.

Premier League
With only three weeks remaining, Western Columbia and Loewen's TV each won three games to keep the race for the title in this league alive. Columbia is one-half game ahead of Loewen's. Dick Bauers rolled games of 245 and 226 for a 666 series and the top score of the night. Ken Dalpiaz posted a 644 on games of 223, 204 and 217, and Dick Furstenberg's 641 included single scores of 234 and 215.

Other 600-plus scores included Warren Turnbaugh (639), Thad Brightwell (636), Doug Fisher (614), Bert Andreasen (614), Bill Driggs (613), and Jeff Mattick (600).

Women's Scratch
Sue Emde, who rolled a 534 series a couple of weeks ago (March 5), was inadvertently left out of last week's report.

This week, scoring was led by Pat Brightwell, who recorded a 542

Burros Boosters' Winter Sports Banquet Slated

The Burros Booster Club will sponsor its annual Winter Sports Awards Banquet, honoring Burroughs High School varsity wrestling and basketball team members on Sunday, beginning at 7 p.m. at the Commissioned Officers' Mess.

Tickets to the event are on sale at the Station Pharmacy, the Medical Arts Pharmacy in Ridgecrest, and at the high school office. They are priced at \$4 per person.

The freshman and junior varsity awards ceremony will be held at the multi-use room on the high school campus at 3 p.m. tomorrow.

Special Services Sets Date For Bicycle Races

Special Services, in conjunction with the T. J. Frisbee bicycle shop in Ridgecrest, is planning an April Fool's Day bicycle race, Sunday, April 1.

There will be five categories of 'cyclists, divided according to age groups. Boys and girls between the ages of 7 and 10 will race for two miles. Entry fee for this category is 25 cents.

Youths 11-14 years of age will race for four miles and will also be charged an entry fee of 25 cents. The distance goes up for the 15-17 age category. These 'cyclists will travel for 10 miles (boys) and six miles (girls). An entry fee of 50 cents will be charged in this category.

Male bike riders between the ages of 18 and 39 will travel a 16-mile course, and females in this age group are designated to compete over an eight mile run. An entry fee of \$1 will be asked for this group.

As a concession to age, bicyclists over the age of 40 will be asked to pedal for 10 miles if they are a male and six miles for females. Fifty cents is the nominal entry fee for this category.

Ribbons and other prizes will be awarded the winners in each age group.

Further information about the April 1 bicycle race can be obtained by calling the China Lake Youth Center, NWC ext. 2990.

NAF Cagers Win To Keep Grip On Third Place

NAF clung precariously to third place in the China Lake Intramural Basketball League's Division A last Tuesday night by eking out a 55-50 victory over Continental Telephone.

The NAF cagers, who sport an 8-3 won-loss record, are now one-half game behind the Ace-TV hoopssters, whose record is 9-3. The Blazers continue to lead the division with a 9-1 slate.

In the other games played last Tuesday, the NAF Officers, who are probably the strongest team in Division B-1 at the moment, smashed the Snarfs, 55-33. The Snarfs, presently in second place behind the Dispensary team, have now lost their last three games in a row.

In a Rockin' Chair Division encounter, the Dirty Dozen dropped a 30-24 decision to the Fuze Dept. on Tuesday.

In other intramural hoop play held last week, Ace-TV snared a toe-hold on second place in Division A with a convincing 78-59 rout of the Loewen's Lions.

The Blazers continue to lead Division A, with a 9-1 slate, while Ace now sports a 9-3 record.

The Tweets continued to dominate Division B-2 as they are still undefeated. They slipped past Comarco, 49-42, in a contest played on Wednesday evening of last week. In other Division B-2 competition, the Wallbangers tightened their hold on second place by defeating Comarco, 45-28.

In Division B-1 play, the Duke-72 cagers outscored the Snarfs, 45-33, and tightened up the race for second place. The Snarfs now have a record of 5 wins and 2 losses, while Duke has also won 5 games, but lost 4.

Signups for Golf

Golfers who plan to compete in tomorrow's 3-club event are reminded to sign-up. A sheet is located in the clubhouse. Entry fee is \$2. Prizes will be in the form of gift certificates, redeemable at the pro shop.

United Funds Awards Presented...

(Continued from Page 1)

up to receive his award, Dr. O'Lane noted that the United Fund is an organization that is close to his heart.

"Before my wife died, she devoted a lot of time and effort to this group. I'm happy to see the way the organization is coming along," Dr. O'Lane said.

The latter also accepted an award on behalf of the Drummond Medical Center for its largest average donation per contributor to the United Fund.

Heading the list of companies and organizations contributing to the United Fund was Texas Instruments, whose 43 employees here contributed an average of \$51.17 each to the United Fund. Harry Parode stepped forward to accept the award on behalf of TI.

Certificates also went to companies whose employees contributed in excess of \$500 each to the United Fund. The recipients of these awards, and the firms they represented, were: Jean Swedblom, Comarco Engineering; Andy Cook, Control Data Corp.; Don Romine, Continental Telephone Co., and Kenneth Day, Southern California Edison Co.

In addition, a special award was presented to Ruth Westcott for her help in soliciting contributions to the United Fund from school employees in the China Lake-Ridgecrest area.

Awards in recognition of corporate gifts in excess of \$100 each to the United Fund also were presented. The recipients of these citations, and the firms they represented, were: Mike Mower, Bank of America; Don Romine, Continental Telephone Co.; Murielle Strayer, Pacific Gas & Electric Co.; Kenneth Day, Southern California Edison Co., and Harry Parode, Texas Instruments.

The presentation of awards continued as Danley stepped back to the microphone with "Outstanding Citizen of the Community" certificates for Karen Connolly and Judy Lind, secretary and treasurer, respectively, of the



IN APPRECIATION — As the top individual donor to the 1973 Indian Wells Valley United Fund, Dr. Michael O'Lane (2nd from left) was the recipient of a plaque that was presented by David Henderson, campaign chairman. At right, Ray Miller, newly elected president of the local United Fund's board of directors, congratulates Bill Danley for the results he achieved during his year as president. As a memento of his term of office as the United Fund's head man, Danley received a combination paper weight and magnifying glass inscribed with the United Way emblem.

United Fund board, and for Mike Mower, chairman of the United Fund's budget and admissions committee.

In addition, Danley presented a desk thermometer as a gift to Henderson for his work as chairman of the 1973 United Fund campaign.

Final business of the evening, following a dinner that was held at The Hideaway in Ridgecrest, was the installation of new officers of the IWV United Fund for the coming year.

Milt Ritchie, a past president of the local United Fund, served as the installing officer. Obligations of office were accepted by Ray Miller, president; Sharon Ballenger 1st vice-president; Karen Connolly, secretary, and Judy Lind, treasurer.

Miller's first duty as new

president of the United Fund board of directors was to present a gift to Danley in appreciation for his outstanding job as president for the past year.

Reserve Unit To Be Transferred From Ft. Mugu

Cdr. R. B. Phinzy, Commanding Officer of Naval Air Systems Command Reserve Unit U-4, announced this week that the mobilization orders for this select reserve unit are being transferred from the Naval Air Station at Point Mugu to the Naval Weapons Center, effective Saturday, March 17.

The orders include mobilization assignments, duty functions and training assignments. The latter consist of two duty days each month, and two weeks each year.

The present unit consists of ten men in duty-pay status, six associates, and three officers in process.

Part of the NASRU mission is to "provide a source of qualified technical specialists to engage in project activities on a contributory support basis to assist NAVAIR and its field activities to fulfill its peacetime role." There are 235 officers in 17 units nationwide who are on call to the Naval Air Systems Command.

Cdr. Phinzy has been at China Lake for several weeks participating in a design-to-cost study for the production of the AIM-9L fuze. His unit will interface with the Center through the office of Cdr. C. D. Brown, head of the Command Administration Department, and services of the reserve officers will be available to all of the Center's technical departments.

JET ENGINES LUBRICANTS

A program is underway at the Naval Research Laboratory (NRL) in Washington, D.C., to identify and characterize synthetic lubricating fluids which can withstand the high temperatures created in jet engines.



VISITS NWC — Major General Selectee Norman W. Gourley, USMC (left), Commanding General, Marine Corps Development Center, Quantico, Va., visited NWC recently accompanied by Michael Hauser (center), Naval Science Advisory program representative at Quantico, and Lt. Col. Joseph E. Hopkins, USMC, special assistant for Marine Corps matters to the Director of Navy Labs. The visitors were taken on a general indoctrination tour of the Center, and General Gourley received specific briefings about ongoing projects of particular interest to the Marine Corps.

Team Sport Fees Studied...

(Continued from Page 1)

teams, Imer added, and then went to forecast that there will be 20 to 25 teams taking part in volleyball (including those for girls and women), instead of the usual 6 or 8 volleyball teams in the past. He also expects more participation in flag football next fall.

Participation has increased three-fold in basketball and softball during the past two years, and for these and all other sanctioned team and individual sports, the Special Services Division foots the bill for officials who work the games, for trophies, and for a limited amount of travel for tournament participation.

"Some additional income has to be generated somewhere, if we are to continue expansion of the intramural team sports program," Imer summed up his views on the matter.

Concern that use of the gym would drop considerably if a fee was charged for team sports activities, was voiced by Chief J. E. McMullen, who suggested that a hard look be taken at places where it might be possible to trim expenses, such as in the payment of game officials.

Bob Forrester, a visitor at the Recreation Council meeting who is now coaching one of the intramural basketball teams, expressed doubt that his team could participate in future years if it was necessary to charge the \$200 fee that has been proposed.

Woodrow Chartier, another visitor, appeared at the Recreation Council meeting to advocate that athletic programs for youth of the community should "enjoy a better break" than he feels they are now getting. Youngsters are now paying a fee to take part in Youth Center sports activities, Chartier pointed out.

Ray Gier, NWC athletic director, explained that up until last year, the Navy manual (under which he must operate) made no mention of youth programs. At present, programs for youth are permissible if excess money and facilities are available, he said.

Support for more than just the youth basketball program is provided at the gym and at other recreation facilities on the Center, Imer stated in responding to the comments made by Chartier. The head of the Special Services Division had reference, he said, to the all-out program for youth that is conducted each summer, when the gym, swimming pool and other areas are turned over for a five week period for the use of summer school students.

Roy Miller, NWC patent counsel, spoke briefly at the Recreation Council meeting, expressing his views in favor of setting up a schedule of fees for intramural sports. "I came here nine years ago and have seen the athletic program grow from zero to a good one, and I'd like to see the program continue to get better," Miller said.

LCdr. Pete Rice urged that the fee proposal be accepted in principle, but felt that it would be best to hold off for a month on the actual establishment of the amounts to be charged.

Charges recommended by Imer ranged from \$5 per player (girls' softball), \$7.50 per player (boys' basketball), and \$10 per player (adult flag football), to team charges of \$100 per team for adult volleyball and \$200 per team for adult basketball and softball teams.

Under Imer's proposal, teams composed totally of military personnel would not be required to pay an entry fee for sports such as basketball, flag football, softball, and volleyball. However, on teams having mixed rosters of civilian and military players, military personnel would be expected to pay a pro rata share of their team's entry fee.

In other business taken up during Tuesday morning's Recreation Council meeting, a motion calling for an appropriation of not more than \$4,000 for the purchase of trap and skeet range equipment was approved.

Still being investigated is the possibility of obtaining appropriated funds under the Self-help program to cover the cost of materials for the construction of a concrete block building, gun racks, tables and benches.

Over the long haul, it is expected that money spent for equipment at the skeet and trap range, which is slated for development in an area next to the Desert Gun Club, will be returned in the form of fees charged for use of the facility, as well as money brought in by the sale of clay pigeons and shotgun shells.

Chief Frank Weaver was at the Recreation Council meeting to report that he has lined up a group of more than 40 volunteer workers who are ready and willing to work on this Self-help project, once the materials are available.

Concluding item of business at the Recreation Council meeting was approval of the purchase of five electric-powered golf cars. Based on past experience, it is estimated that the revenue realized from the golf car rentals will pay for the new machines within a two year period.

Gov't Surplus Property Auction Set at Barstow

An auction sale of Department of Defense surplus property on a cash-and-carry basis will be held on Wednesday, March 21, at the Property Disposal Branch, Lot 371, located on the south side of Joseph L. Boll Ave., at the Marine Corps Supply Center in Barstow.

Registration will begin on the day of sale at 8 a.m., with the sale scheduled to start at 9 o'clock. Property to be auctioned may be inspected from 8 a.m. to 3:30 p.m. today, Monday and Tuesday.

Items to be auctioned include hand tools, refrigerators, hardware, bilge pumps, electrical equipment components and other items of general interest.

This will be a paddle system auction, with the property being awarded to the highest bidder. All persons, 18 years of age or older, may participate.

Government employees and military personnel are eligible to take part in the sale, providing their duties do not include any functional or supervisory responsibility for, or within, the Defense Property Disposal Program.

Range Operations Aided by Test Support Division

(Continued from Page 1)

the Data Reduction Branch, under Bruce Wertenberger, and the Support Services Branch, led by J. J. Campbell.

Frequency Management Gp.

This branch provides services for the Center for the allocation, assignment and use of radio frequencies. The group coordinates frequency allocations required for the procurement or development of electronic transmitting or receiving equipment. Frequency assignments are obtained for the operation of radio communication, telemetry, video, microwave, timing, radar and other equipment and systems on the Center.

Monitoring and surveillance of the radio frequency spectrum is performed to identify and locate interfering, unscheduled, or unauthorized signals. The group maintains facilities to analyze and determine characteristics of signals "off-the-air." In addition, the group coordinates frequency clearances for electronic countermeasures and other operations at NWC and at other locations.

Instrumentation Development

The Instrumentation Development Branch designs and develops instrumentation circuitry and systems for utilization by the NWC range complex to acquire test and evaluation data for the purpose of defining weapon system performance. The scope of work includes the application of electronic analog and digital techniques to range instrumentation and support systems, such as telemetry, communications, range control, timing, tracking, microwave and television.

The personnel of this branch also review the latest techniques and equipment for an evaluation of range applications and assist in the development of plans and budgets to meet the ever-changing requirements of weapons test programs.

In addition, this branch has recently been assigned the range telemetry operation responsibility under R. E. Rockwell — thus collecting the telemetry personnel and equipment of all three ranges and divisions into one group.

This unit provides the engineering design, procurement of fabrication and installation of the equipment and facilities to support the test programs con-

ducted on the various air / ground and track ranges of the Engineering Department. Included in this task are the design and modification of the test ranges firing and instrumentation control systems and the accomplishment of all geodetic surveying for the Center.

In addition, the branch is responsible for the liaison and coordination of the Public Works forces necessary to accomplish the maintenance, fabrication, construction and installation of the ranges' test support equipment and facilities.

Data Reduction Branch

The Data Reduction Branch reduces and analyzes raw data, such as missile data, from optical and electronic test range instrumentation systems.

This entails deriving and developing mathematical techniques to translate the raw data into engineering terms such as position, velocity, acceleration, attitude and drag.

To perform these functions, branch personnel use such electronic and mechanical equipment as the UNIVAC 1108 computer, an Information International, Inc., Model FR-80 automatic plotter, and Richardson Readers. The latter are semi-automatic film comparators.

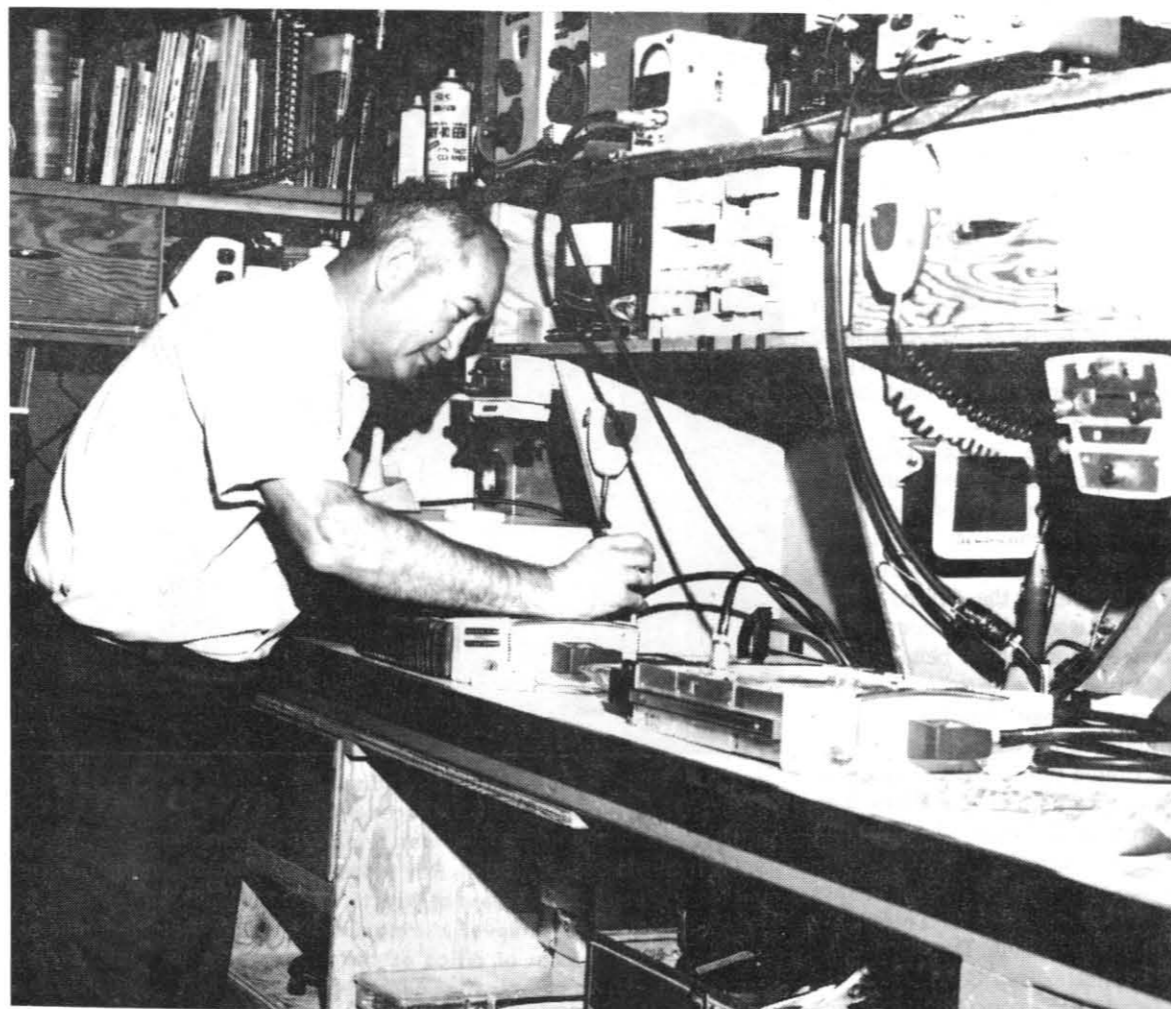
The branch has many interfaces. Range project engineers specify many elements of the data needed, in cooperation with the branch project mathematicians. Filmed data is read, and preliminary computations are performed to the branch's and project engineer's specifications, by personnel of Associated Aero Science Laboratories, Inc., the NWC data reduction services contractor.

The final data are computed and plotted by personnel of the Computer Sciences Branch before a total review is performed by the members of this branch and project personnel.

Support Services Branch

The primary goal of the Support Services Branch is to support the Ground and Air Operations Divisions in the following categories.

The branch's responsibilities are to collect and process meteorological range data; supply range timing; provide FM and UHF range television equipment, including operating the "video



ROY WEBB, an electronics technician for Code 5734, tunes a Mo Trac receiver, one of the newer mobile receivers used for range instrumentation. The instrument is a 4-frequency receiver, with a 40-watt transmitter. Men in this branch work on many types of gear, ranging from the item above to public address systems and intercom sets.

center" for collection, consolidation and distribution of range TV data.

In addition, the branch provides "quick response" design, development and modification for immediate range instrumentation problems through the Applied Engineering Section of the department, as well as certain maintenance effort on photostatic systems.

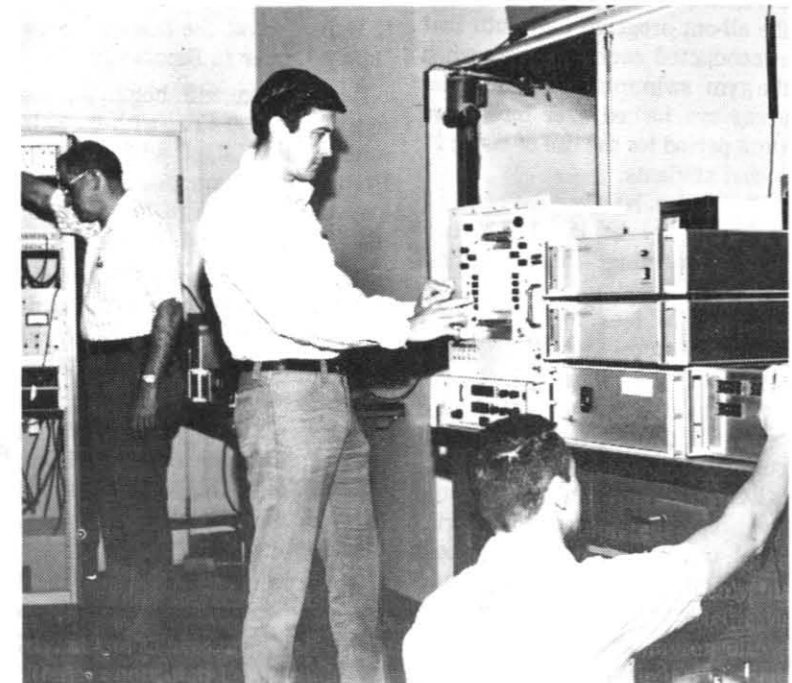
This concludes the discussion of the Engineering Department's range operations. Next week's article will deal with the ranges and special facilities of the Electronic Systems Department, headed by Leroy Riggs.



THIS FREQUENCY monitoring station is located south of the Instrumentation Lab, on top of the Lark Ramp, and is 20x20ft. Inside is a myriad of monitoring equipment.



BILL KINGSLEY (left), a Co-op student from the New Mexico State University, at Las Cruces, adjusts the mirror lenses on his surveying gear, while in the right photo Jan Gieger (left), and Butch Lamson send an infra-red signal to Kingsley's apparatus. What they are using is a precision instrument that measures distances by infra-red signals to perform surveys. The equipment is accurate to 1/2 centimeter over a two-mile distance.



THE NEW RANGE UHF timing system, under development in Code 5731, is shown being tested by (l.-r.) George Meuser, Jerry Allen and Garry Hartman.

Dial 446-2744 For Message About Safety

Indian Wells Valley residents can now listen to a series of short recorded skits pertaining to safety by dialing telephone number 446-2744.

This "dial a message" program has been undertaken by the Indian Wells Valley Community Safety Council, and current plans call for changing the recorded information at approximately two week intervals.

The skits to be recorded will be written either by members of the Burroughs High School Forensic Club or by the sponsoring organization, and are designed to appeal to children and young people.

The first month of this safety program is being sponsored by the Kiwanis Club of Ridgecrest. Other groups interested in helping in this way to spread information on safety should contact members of the Community Safety Council. The cost is \$25 per month or \$12.50 for two weeks.

China Lake representatives on the Safety Council are LCdr. C. E. Williams, Ann Teppo and Mickey Strang. Those from Ridgecrest are Lee Wengler, J. D. McKernan and Don Lumdsden.

Western Music Gp. To Play for Dance

The sounds of country and western music will fill the Club Chaparral tonight as the "Country Squires," a western rock group, will play dance music from 9:30 to 1:30 a.m.

A prime rib dinner will be served from 6:30 to 8 o'clock for members and their guests.



AT GARDEN CLUB—A talk about California conifers by Mrs. Dale Bauer highlighted a recent Oasis Garden Club meeting. Mrs. Bauer, a resident of Smiley Park (near Running Springs in the San Bernardino Mountains) has been recognized by the American Forestry Association as the woman in America who has done the most to advance the cause of reforestation and conservation. Following the Bear Creek fire of 1970, Mrs. Bauer and her recruits planted 2,500 conifer seedlings during the spring of 1971 and then watered them during the summer drought that set in shortly after the planting. The Oasis Garden Club speaker also supervised the planting of an additional 1,000 pines in the spring of 1972.



TAXMOBILE DUE HERE — Questions regarding federal income tax problems will be answered and assistance provided free of charge in the preparation of federal income tax returns during a visit here next week by a mobile unit from the Los Angeles District of the Internal Revenue Service. The Taxmobile will be set up on Thursday, March 22, from 10 a.m. to 4 p.m. in the Community Center parking lot at China Lake, and on Friday, March 23, it will be at the Grant's Department Store parking lot in Ridgecrest from 9 a.m. to 3 p.m. The Taxmobile will be accompanied here by three IRS employees — Denise Harris, Barbara Saal and Bud Wright. Anyone with questions regarding federal income tax matters also can obtain assistance either before or after the Taxmobile visit by calling the IRS toll-free number (800) 332-4500.

School Unification Plan Pitfalls Seen...

(Continued From Page 1)

annually in available operating funds." During a two-hour press conference on Wednesday morning, the principal of Burroughs High took a table of estimated income based on data obtained from the State Department of Education in Sacramento by the proponents of unification and proceeded to show how, in his analysis of the factors relating to unification, the anticipated extra million dollars of annual income would melt to a little more than \$90,000 per year.

He also made the point that his calculations are quite conservative, being based upon audited figures that exist for the 1971-72 academic year at Burroughs High School—not upon projections of income for the 1974-75 school year which those in favor of unification of schools are using to demonstrate the financial advantage of the unification plan.

"It is not my intent to oppose unification, since local control of schools is very desirable," Cissne said. "My deep concern is that we protect the students involved."

"I've analyzed the factors relating to unification, and am alarmed at some of the facts I've uncovered in my research. Yet no opportunity has come my way to share this information," the Burroughs High principal stated in explaining why he decided to call the Wednesday morning press conference.

Local residents interested in learning the details of Cissne's

concern regarding the proposed unification of schools will be able to do so by attending the public hearing that is coming up Tuesday evening.

What his report to the press Wednesday morning included was information on income that he would be able to count on for operation of the local high school if it remains a part of the Kern High School District, but (he insists) will not be available to a separate unified school district here.

At the conclusion of the press conference, Cissne also made available state-audited figures which he received this past Monday showing the effect on school district tax rates in 1974-75

of a vote for or against the school unification proposal.

Present tax rates per \$100 of assessed valuation for the three local elementary school districts involved in the unification plan are: China Lake, \$5.98; Indian Wells Valley, \$4.34, and Rand District, \$4.22.

A "no" vote on unification would result in the following tax rate for 1974-75: China Lake, \$5.39; Indian Wells Valley, \$4.34, and Rand District, \$4.66.

A "yes" vote on unification would bring about in 1974-75 a uniform tax rate of \$5.93 per \$100 of assessed valuation for the property owners in all three elementary school districts.



Red Cross Water Safety Course To Begin Tuesday

Part one of a course for Red Cross water safety instructors will begin at 8 a.m. Tuesday at the swimming pool in the Center gym.

Other sessions of this class will be held on Tuesdays and Thursdays thereafter from 8 to 9:30 a.m. until 15 hours have been completed.

There is no charge for this instruction, but only those who have completed a Red Cross life saving course may enroll.

For further information, or to register for the class, those interested should call 446-5153 after 3:30 p.m.



HELIPORT READIED — Above, a helicopter, piloted by Lt. Col. Jack Pipa, USMC, touches down on the newly-completed heliport, located across the street from the Ridgecrest Community Hospital on Navy-owned land. The heliport, a project for the past three years of the China Lake Rotary Club, was finished during the past week. Full FAA certification is expected within the next month. Above (left) Fred Walbaum, Dan Butler, Ev Long and Don Padgett (all Rotarians), excavate a path for a car approach to the landing site. At left, Dick Lewis, operating the forklift, Padgett and Walbaum, pitch in on the final work. Lewis is president of the local Rotary Club.