Page Eight

CLOTA Tryouts For Spring Show Set By Director

Tryouts for "Here Lies Jeremy Troy," the first production of the 1971 season by the Community Light Opera and Theater Association, will take place on Monday and Tuesday, February 1 and 2 at the CLOTA Hangar, Upjohn and China Lake Blvd. Tryouts will begin at 7:30 p.m.

"There are five wonderfullyfunny parts in 'Jeremy,' " stated director Ed Romero. "Jeremy and Kathryn Troy, a successful joung couple in their early '30s; Charlie Bickle, an unsuccessful artist of about the same age; Tina Winslow, a wacky young part-time model and would - be actress; and Sven Ivorsen, Jeremy's somewhat gullible, middle-aged boss."

Romero, who is well known to local audiences for his fine direction of "David and Lisa," for CLOTA last year, and for his performances on the stage, such as Prof. Higgins in "My Fair Lady," said that the roles are about of equal length and dialogue. "Prior experience is not necessary," he elaborated. "Any interested person is welcome to tryout."

"Here Lies Jeremy Troy," is a classic example of an audacious lie building up to monstrous proportions, with confusion leading to misunderstandings and finally chaos for a harried Jeremy, who is desperately trying to save his marriage, job and future.

Romero announced that rehearsals will be held three times a week, commencing on February 22. The play will run for four performances at the Burroughs Lecture Center: April 9, 10, 16 and

According to Romero, an innovation in stage settings (and a first for IWV little-theater), will be the use of a full-sized, two-story set, now being designed by David Chapman. A set two stories high was not possible for Valley productions prior to the availability of the Lecture Center.

"Quality theater is now possible," Romero said, "and our shows can now be presented in an atmosphere of comfort, ease, visibility and good acoustics."

"The building of our set will naturally be quite an uninterested in helping backstage for this production are asked to contact Romero, at NWC Ext. 2264.

Sky Marshall

Employment

(Continued from Page 7) of training.

General physical requirements include: no limitations on height or weight, no history of fainting or epilepsy, eyesight in the range of 20-40 to 20-70 but correctable to 20-20, free from marked deformities, free range of motion in all limbs, no missing fingers or toes, and no varicose veins.

Promotion opportunities for Customs Security Officers extend positions and for advancement to special agent or to other Customs technical positions.

ROCKETEER



"MAD HAT" WINNERS-Winners of the "most unique hats" at the Military Wives luncheon were (I-r): Sandy Eilers, 4th place; Faye Rasmussen, honorable mention; Leah Little, 2nd place; Valda Brown, 3rd place; Patty Bender, 1st place; and Jan Spradley, honorable mention. The luncheon, held at the Commissioned Officers' Mess on

January 26 was hosted by military wives of the Naval Air Facility. Recent arrivals to NWC who were welcomed by Mrs. W. J. Moran, wife of the NWC Commander, were : Mmes. C. Birdwell, Jr., John C. Clinton, L. C. Bender, A. Debodisco, and Dan S. Eilers.

-Photo by PH2 D. E. Hart, USN

AAUW To Sponsor 'Tasting Tea'

The China Lake Branch of the representing five different areas of Roper; and Far West, Mrs. Paul American Association of the United States. Each table will University Women will sponsor a have seven different dishes which tasting tea on Sunday, February 7, might include main dishes, from 2-4 p.m. at the Community desserts, biscuits and rolls, ap-Center. The tasting tea will offer petizers, and other specialties. the public a chance to sample The five areas and the table regional cooking in the United chairman for each are: Penn-States and the theme for the event sylvania Dutch, Mrs. Marvin is "Eating Your Way through the U.S.A.'

There will be five tables Swann; Southwest, Mrs. Phillip

Backman; New England, Mrs. Robert Glenn; South, Mrs. Edwin

Two Surplus Property Sales Scheduled At MCSC, Barstow

Two sales of surplus property Avenue. Registration will begin on dertaking," the director confided, are slated within the next two the day of the sale at 8 a.m. The "and people are needed to aid in its weeks at the Marine Corps Supply sale will start at 9 a.m. Property construction," he went on. Persons Center's Property Disposal may be inspected daily 8 a.m. Branch, MCSC Barstow

A retail sale will be held Jan. 30 between 9 a.m. and 1 p.m. in the Sundays. east end of bldg. 165, and will be open to all military and civilian personnel of the Center and to the general public.

desks, dressers, dining tables, special table of fifty-cent items.

All sales will be on a cash-andcarry basis and buyers will be required to immediately remove items purchased. Personal checks will not be accepted and the sale will be conducted on a "first come, first serve" basis.

On Feb. 4, an auction sale of remove the property on the same to grade GS-9, with further op- Department of Defense surplus day or may elect to remove it portunities for supervisory property, also on a cash-and- within five working days of the carry basis, will be held at the sale. Loading will not be ac-Property Disposal Branch Lot 371, complished until after the comon the south side of Joseph L. Boll pletion of the sale.

through 3:30 p.m. until the day of the sale, except Saturdays and

This will be an auction type sale, with the highest bidder being awarded the item. Mailed, telephonic or telegraphic bids will Many items of interest will be be accepted. Personal checks will offered, such as wooden "home be accepted. Government emtype" desks, metal office-type ployees and military personnel may participate in this sale common tools and hardware and a providing their duties do not include any functional or supervisory responsibility for or within the Defense Property Disposal program, or their agents or immediate families

Property Disposal personnel will load the heavy equipment onto the buyer's vehicle. The buyer can Amundsen. General chairmen for the event are Mrs. Carl Austin and Mrs. E. F. Diede.

Tickets may be purchased from members of AAUW or at the door on Sunday. Prices are \$1.50 for adults and recipe books will be furnished for each adult ticket. Coffee, punch and tea will be the beverages served. Children's tickets for those under twelve years of age are priced at 75c each. Mrs. John Petersen is directing ticket sales and the recipe books are being compiled under the Mrs. E. W. Anderson and Miss Wetzel.

All proceeds will go into the AAUW scholarship fund which provides a local college scholarship to a graduating Burroughs High School senior girl and to the national AAUW program which provides graduate study awards course. for women

The public is invited to attend and sample recipes which offer different ideas to tempt the appetite

MOVIE RATINGS The objective of the ratings is to inform rents about the suitability of mo ent for viewing by their children. (G) - ALL AGES ADMITTED **General Audiences**

(GP) - ALL AGES ADMITED Parental Guidance Sugg (R) - RESTRICTED Under 17 requires accompany

Friday, January 29, 1971

ing Parent or Adult Guardian 29 JANUARY 197 "MACHINE GUN MCCAIN" (94 Min) John Cassavetes, Britt Ekland

7:30 p.m. (Crime Drama) Ex-con is hired to rob a Las legas casino but it's found that it's owned by the Mafia and the attempt to stop him fails.

Short: "Ghost Talks" (16 Min) 30 JANUARY

-MATINEE-"SNOW WHITE & THE THREE STOOGES"

> 1:00 p.m. Shorts: "Eight Ball Bunny" (7 Min) -EVENING-"R.P.M." (91 Min)

Ann Margret, Anthony Quir 7:30 p.m. (Drama) Liberal sociology prof is chosen to

present dissident radical's demands to colleg rustees in this tale of campus unrest that ulminates in unnecessary violence. (R) Shorts: "Chili Corn Corny" (7 Min) "Big Surf" (9 Min)

31 JANUARY SUN "THE MALTESE BIPPY" (92 Min) Rowan & Martin, Julie Newmar

7:30 p.m. (Comedy) TV's hottest team made this nowler about a fast-buck film producer (Dan and his sex film star (Dick) who get involved with werewolves. (G)

Shorts: "Pluto's Blue Note" (7 Min) Sweden Lovely" (9 Min)

1 FEBRUARY MON NEW YORK PROMUSICA CONCERT

2-3 FEBRUARY TUES and WED "AIRPORT" (136 Min)

Burt Lancaster, Dean Martin 7:30 p.m. (Drama) One wild day in the life of an ai port manager makes this film the hit of the

eason. The professional stowaway, the bomb threat, an airliner stuck just off the runway the smuggler, it's all here in one big dramatic package to make an absorbing crowd-pleasin

THURS and FRI 4-5 FEBRUARY "TAKE A GIRL LIKE YOU" (99 Min) Hayley Mills, Oliver Reed

7:30 p.m. (Comedy-Drama) Country girl goes to the big city to become a teacher, and boards with a politician and his family. Between the politico, and her dates. Havley has guite a time keeping er chastity. (R)

Short: "Pink Package Plot" (7 Min) **Golf Tourney**

Slated Feb. 6 Entries are now being accepted

chairmanship of Mrs. K. R. Wetzel. for the China Lake Golf Club's first tournament of the year, the "Cross Eleanor Eng are assisting Mrs. Country" event, scheduled for February 6.

The unusual tournament will be played on a special 14-hole course layout and should appeal to the golfer who enjoys tournaments as well as the golfers who enjoys the challenge of playing a "new" golf

A map of the rerouted holes is currently on display at the Golf Course clubhouse along with the sign-up sheet for the event. Entry fee is \$2 and the sign-up

deadline is 5 p.m., February 5.



the past? operations. said

cent.'

The admiral said revamping the regulations on beards, sideburns and hair styles is representative of the changes "we must accommodate ourselves to if we are going to compete successfully in today's youth market."

14.4

14.1



Admiral Zumwalt Contends:

'Beards Do Not Detract From Navy's Mission'

Does the hirsute facial splendor appearing on Navy men signal the end of the order and discipline and the time-honored traditions of smartness the Navy has known in

No, not according to the man who relaxed the Navy rules on beards and sideburns, Admiral Elmo R. Zumwalt Jr., chief of naval

"I have yet to be shown how neatly trimmed beards, sideburns, or neatly-shaped Afro haircuts contribute to military delinquency or detract from a ship's ability to carry out its combat function," he

The admiral's answer came in a speech before the Commerce and Industry Association in New York during which he discussed the Navy's retention problems and personnel policies.

He said the Navy's ability to retain men "borders on the verge of a catastrophic personnel crisis." While the carrier forces should maintain a 35 per cent first-term reenlistment rate, he said, "our present rate on Atlantic Fleet carriers is less than three per

He said personnel policy changes are judged "in the light of whether they contribute to good order and discipline, and whether or not they would have a helpful or harmful effect on the traditions of our Service."

Z-gram 70

Adm. Zumwalt spelled out the policy he wants followed, however, in his latest Z-gram (Z-70), the contents of which are quoted below, and which will soon be incorporated into Center Instruction 1020.2K.

"As a result of my recent field trips and personal contacts with Navymen, plus the high incidence of correspondence, it is clear to me that further amplification of and change to policy is required in two areas covered in NAVOP Z-57, namely hair grooming and uniforms, these changes will be incorporated in the next change to U. S. Navy Uniform Regulations. "A. Hair grooming: The Navy does not prescribe nor distinguish among styles of haircuts. A wide variety of hair styles, if maintained in a neat manner, is acceptable. The determination of hair styles, within the criteria detailed below, is an individual decision

"(1) Hair will be neat, clean, trimmed, and present a groomed appearance. Hair will not touch the collar except for the closely cut hair at the back of the neck and that will present a tapered appearance. Hair in front will be groomed so that it does not fall below the eyebrows when a person is uncovered and will not bush out headgear. In no case shall the bulk (Continued on Page 5)



SIRE MEETING—Approximately 110 personnel participated in the recent guarterly System Information Review and Exchange (SIRE) meeting held last week on the Center. Representatives from NMC, NOL, NADC, NSRDC, NRL and the Air Force's Rocket Propulsion Laboratory, in addition to representatives from NWC and NAVAIR were in attendance. The meeting was

called to discuss and exchange views regarding the AGILE missile program. Above, (I-r) Phil Ankeney, AGILE Program Director, L. S. Mc-Donald, NAVAIR AGILE Manager, and C. W. "Zip" Mettenburg, NWC AGILE Program Manager, review the launch tube mockups used in loading and storing the AGILE missile.

-Photo by PH2 D. E. Hart.

Center Plays Significant Role In Navy Pollution Abatement Program

The magnitude of environmental pollution has increased to such a degree than considerable public below the band of a properly worn awareness and interest in this area has been greatly aroused. The complexity and scope of the problems involved are such that concern for their solution extends to practically all aspects of the military establishment, both in this country and abroad. As a result, legislative trends at every level of government have led to adoption of stringent pollution control regulations. Such trends have been felt for the past few years, as a matter of fact, as evidenced by DOD Directive 5100.50 of January 4, 1966, which established responsibilities and policy con- problems of pollution and to assure cerning environmental pollution effective and efficient control control at all DOD installations. among their resources and per-

Pollution Control Program has been established to prevent and control such pollution through proper planning, design development, and improved operation and maintenance of weapons, equipment, facilities and utilities. The Navy Environmental Pollution Control Program is now a primary part of the effort of the service and its importance is reflected in the extent to which the their associated ordnance. problems of pollution are currently being pursued.

Managed By DCNM

Navy Environmental Pollution Control Program has been that are currently being used. assigned to the Deputy Chief of NWC has also been asked to act as Naval Material. Specifically, he is consultant to the Ordnance responsible for: providing general Systems Command regarding instruction and technical direction pollution abatement research and with respect to the design, development activity at other acquisition, operation, main- Navy facilities.

tenance and support of Naval To effect these goals, a pollution with local, state, and other federal agencies, regarding mutual problems and goals; and reporting Kinetics Branch; Norm Rumpp, on the progress of the program.

work by the Naval Facilities and Pyrotechnics Division: Dean Engineering Command, the Naval Ship Systems Command, the Naval Dr. George Handler, Dr. C. D. Air Systems Command, and the Lind, and Art Breslow, also of Code Naval Ordnance Systems Com- 45; K. S. Skaar, Safety Department mand. All of the above have been Head; Paul Cuykendall, Industrial ordered to initiate appropriate Hygienist; and Dr. Rick Roberts of action within their respective the Systems Development Decommands to identify sources and partment. In the Navy, an Environmental sonnel in compliance with the objectives of the Environmental Pollution Program.

NWC Has Major Role

In this regard, the Naval Weapons Center has been asked by the Naval Ordnance Systems Command to bring its expertise to bear on the problems of pollution abatement that deal with disposal of propellants, explosives and pyrotechnic (PEP) materials and Specifically, the Center has been asked to identify the problems, determine pollutants, and find Over-all management of the alternate methods of disposing of these materials other than those

military weapons, equipment, abatement committee has been set facilities and utilities vis-a-vis up at NWC to provide inputs to improvement of the environment identification, data gathering, and through pollution control; working solutions. The committee consists of Dr. A. S. Gordon, Head of the **Research Department's Chemical** Head of the Propulsion Develop-The Deputy is assisted in this ment Department's Explosives Couch, Paul Rivette, Ron Vetter,

> The Committee is headed by Dr. H. J. Gryting, whose regular job is Technical Advisor on Explosives to the Propulsion Development Department's Explosives and Pyrotechnics Division.

> The committee works closely with Dr. Adolph Amster, over-all coordinator of this phase of Ordnance Systems Command's pollution abatement work that deals with propellants, explosives and pyrotechnic materials.

The committee also works (Continued on Page 7)





RADM. MORAN RECEIVES LEGION OF MERIT-RAdm. Thomas D. Davies, Deputy Chief of Naval Material, presented the Legion of Merit (Gold Star in lieu of the Second Award) from the President of the United States to RAdm. William J. Moran, NWC Commander, during a luncheon ceremony held at the Commissioned Officers' Mess on January 26. The citation was "For exceptionally meritorious service as Director, Navy Space Program Division in the Office of the Deputy Chief of Naval Operations (Development) from November 1968 to September 1970." —Photo by PH2 D. E. Hart

Page Two



HELP LINE GIFT-Rita Rousell, treasurer of the Indian Wells Valley Nurses' Club, presents a donation from that group to Victor L. Rehn, Help Line treasurer. Dr. Rehn, who is a physicist in the Research Department, expressed his gratitude on behalf of the Help Line organization, noting that the free crisis intervention service could not operate without the generous support of community organizations such as the Nurses' Club, whose donations provide the funds necessary to pay phone bills and meet other financial needs.



CENTER LIBRARY LISTS NEW BOOKS

A complete list of new books is available in the library. Fiction

Dick-Ubik Dickson-Mutants Guareschi-Don Camillo meets the Flower Children. Gunther-Indian Sign Stadley-Autumn of a Hunter Stewart-The Crystal Cave. Williams-The Siege of Trencher's Farm Barber-The Midnighters. Cleeve-You Must Never Go Back. Elliott-Listen to the Silence. Laski-The Dominant Fifth. Patten-Red Runs the River.

Sanders-Baneful Sorceries.

Brock-Alice's Restaurant Cookbook David-Flying Saucers Have Arrived! Everson-A Pictorial History of the Western Film Keating-Alaska Kennedy-Very Lovely People Larson-Deserts of America

Non-Fiction

Lewis-Carnival Richette-The Throwaway

Children Stegner-The Sound of Mountain

Water Townsend-Up the Organization Kresh-Power of the Unknown

The Rocketeer **Afficial Weekly Publication** U. S. Naval Weapons Center

China Lake, California RAdm. W. J. Moran, USN NWC Commander

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DEADLINES:

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Citizen



Protestant (All-Faith Chapel)-Morning Worship-10:00 a.m. Sunday School-8:30 a.m., Chapel An-nexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant.

Roman Catholic (All-Faith Chapel)-Holy Mass-5:00 p.m., Saturday (Fulfills Sunday obligation); 7, 8:30 and 11:15 a.m. Daily Mass-11:30 a.m. in Blessed Sac-

rament Chapel. First Saturday, 8:30 a.m.

Confessions-4 to 5 p.m. Saturday, and 8 to 8:25 a,m. Sunday. NWC Jewish Services (East Wing All-Faith Chapel)-8 p.m. every first and third

Sabbath School-10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship-(Chapel Annex 95, 95 King Ave.)-Sundays, 7:30 p.m.

ROCKETEER

PROMOTIONAL **OPPORTUNITIES**

Applications for positions listed in this umn will be accepted from curren NWC employees and should be filed with he persons named in the ad. All others sesiring employment with the Nava Weapons Center may contact the Employment Division, Code 652, Extension 2069. Current applications (SF-171) or Standard Form 172 should be submitted bringing your work history up to date it one has not been submitted within the la 6 months. The fact that positions are ad vertised in this column does not preclude the use of other means to fill these positions. Part of the ranking process of hose rated as basically qualified will be a upervisory appraisal form that will I sent to the employees present and most recent previous supervisor Selection shall be made without discrimination for an onmerit reason.

Supervisory Policeman, GS-083-11, PD No. 84003, Code 843—This position is that of Head, Police Division, Code 843, who is responsibl for the Center's physical security program. As Chief of Police, the incumbent is the advisor to the Command in all matters pertaining to law enforcement, crime prevention and sabotage r espionage investigations. Minimum Qualification Requirements: 5 years experience which has given the applicant a broad knowledge of police operations, practices, and echniques. The experience must have included making arrests, protecting life and property, maintaining law and order, inestigating accidents, preventing crime and preserving the peace. At least one year of equired experience must have been at a level of difficulty and responsibility comparable to the GS-9 level. Job Relevant Criteria: Ability to supervise is required. A Bachelor of Science degree in police science is desirable.

File applications for the above with Linda Grossman, Bldg. 34, Room 204, X-2925-2676. Warehouseman, WG69007-05, JD No. 33, 2591-Performs a number of tasks in con nection with the physical receipt, storage or issue of supplies. Receives, checks, stows, counts, issues and assembles supplies of all types in accordance with established supply stems, procedures and methods. Minimum Qualification Requirements: Rating will be on the basis of existing J-element standards in accordance with CSC X118C. Applicants mus submit a supplemental experience statement. Forms can be picked up in Rm. 206, Personnel Secretary (Stenography), GS-318-4 or 5,

Code 257-Serves as Secretary for the Control Division, Supply Department. Receives elephone and personal callers, processes ming-outgoing correspondence, performs enographic duties as required. Minimum Qualification Requirements: Two years for the GS-4 and two and one-half years for the GS-5 of xperience in typing, stenographic or general

Center Leaders Schedule Prayer Breakfast Tues.

A Presidential Prayer Breakfast for military and civilian men of the Naval Weapons Center will be held in the Center Restaurant beginning at 6 a.m. Tuesday. There will be no charge for the breakfast.

Persons interested in attending should make reservations with the All Faith Chapel office, Ext. 3506, by noon Monday, so that the Chapel office can inform the Center Restaurant staff of the expected that can be directly attributed to a with the uncertainties and attendance. Food will be served marijuana overdose because the frustrations of life. The use of from 6 to 6:30 a.m.

The breakfast provides an opportunity for the men of the Center to come together in a common cause of devotion and fellowship around the breakfast table," said I. I. (Bud) Shull, breakfast chair-

emcee the program which will frequent since the effect upon the this effect can be attributed to the include an Invocation by William central nervous system is quite memory loss effect that has been P. Pierce, opening remarks by large. One can, in that case, also documented or because of a RAdm. William J. Moran, NWC anticipate a more frequent oc- decreased study interest by the Commander, brief pre-taped currence of bad trips. messages by President Nixon and In discussing habitual effects, With further careful quantitative Secretary of Defense Melvin Laird, and the marijuana-hard drug work, the effects of marijuana will, songs by the Medallions Quartet, syndrome observed by law en- shortly, be better understood in comprised of Clay Panlaqui, forcement, Professor Mosher felt both the psychological and the Warren Stump, Henry Wair, and that the cause of the syndrome is physiological sciences. Despite the Ray Becker, scripture reading by actually more social and the result currently disturbing social HM-3 John Cawley, an in- of misinformation than a real problem, one can anticipate that spirational message by Jerry L. predisposition. The reason for this some medically useful and Reed, group singing led by Jerome is that adult society, with much desirable compounds can be L. Zaharias, and the Benediction experience with the hard drugs, developed as a result of research in by Capt. Robert E. McCall.

Friday, January 29, 1971

ACS Speaker Discusses Chemistry Of Marijuana By Dr. Arnold Adicoff

University of Delaware addressed be deadly. In attacking marijuana, the Mojave Desert Section of the which induces similar American Chemical Society last psychological effects, the same Friday evening at the Hideaway labels were applied to marijuana Restaurant on the subject of the as were applied to hard drugs. Chemistry of Marijuana.

pointed out that marijuana has dire effects predicted did not occur been available and in use for some and reasoned that if the adults 4,000 years, and used moderately were wrong about marijuana then within ghetto societies. The recent they were also wrong about concern with marijuana, its cocaine and heroin. The need for chemistry and effects, began when truthful, accurate information the youth of middle and upper should not be underestimated. income families became involved with the drug.

tetrahydrocannabinol, the active marijuana principle, four forms having the same chemical formula but different spatial arrangements of atoms are possible. Of these four forms, only two possess high hallucinatory capabilities.

A number of synthetic methods were discussed for preparing the pure tetrahydrocannabinol required for accurately controlled research into the effects of the drug. The pure drug is also needed for researches into modification of the drug so that beneficial improvements can be obtained and intensified for prescribed medical and psychiatric use. A number of these synthetic methods involve the use of hazardous chemicals that would be fatal to the user if not completely removed from the final product

Much of the misinformation concerning the drug, both in youth circles and in the concerned adult groups, arises from variable activity of the natural product and, therefore, poorly documented and controlled experiments in its use. A sample of the pure drug, as low as 5 milligrams, is adequate to produce an hallucinatory effect in a 160-lb. individual. Marijuana from different sources and grown in various parts of the world are of different purities. Many sources contain none or very little of the active tetrahydrocannabinol. This accounts for the variability in results commonly described by individuals using the drug. Aged, naturally derived drugs, contain less of the active material than the fresh drug because of the degrading effects of light, air, and moisture.

No deaths have been reported current method of ingestion by physically disabling effect.

become available, it would be marijuana perform much more certain that overdoses and poorly than those who are not using Capt. Gerald W. Jauchler will fatalities would become more the drug. It is not certain whether

has discovered that these drugs this area.

are habit forming, debilitating Professor William Mosher of the physically and mentally, and can Smokers of marijuana, on the In introducing the subject, he other hand, discovered that the

In discussing the inverse dosage effect observed for marijuana, In discussing the chemistry of where habitual marijuana users



Prof. William Mosher

require less marijuana, with time. obtain the euphoric or hallucinatory condition, the cause was ascribed to the long residence time of the drug and-or the still active metabolized components in the body. Marijuana is found to remain in the body for times as long as eight to ten days. It is stored in the fatty tissue of the body and brain. The long residence time should be a matter of serious concern to all persons. The large increase in appetite of the marijuana user is not well understood. The noticeable eye reddening is attributable to smoke irritation

While Professor Mosher believes that marijuana should be considered in a fashion similar to ethyl alcohol, he is very seriously concerned with the use and abuse of the drug by youth. The youth years are those during which the individual learns to adapt and deal marijuana denies the individual smoking is self-regulating in that this important learning experience one becomes physically unable to and a "cop out" on life is achieved smoke enough to achieve a toxic so that the individual remains state because of the hallucinatory psychologically crippled and immature. It has been noted, in If the pure material were to addition, that students using user.

win.

Bruins.

Biodegradation is the process that a material cycles through to return to its original form after it has served its intended purpose. For instance, biodegradable detergents are designed to break down to unharmful products in sewage after they have been used to clean clothes. Accordingly, future ordnance materials would be designed so that their by- new mixtures.



Friday, January 29, 1971

ROCKETEER

Page Seven

Center Assists NAVORD In Pollution Research

(Continued from Page 1) closely with the Naval Ordnance Environmental Health Group which, among other responsibilities, conducts periodic suremission that is being deposited into the surrounding air and water at the twenty installations that they review; and the Naval Weapons Station, Yorktown, which is specifically looking into alternatives for using the Deep Water Dump, the method now being used to dispose of excess or unusuable ordnance

The committee is currently exploring several alternative methods and aids to problem solution in the area of pollution abatement which include: Recycling (reclamation and reuse), Biodegradation, Dumping in Tectonic Sinks, and Electroreduction.

Recycling

Given the ground rule that pollution from Propellant, Explosive and Pyrotechnic materials (PEP) is to be eliminated if possible, it is believed that almost all ordnance could be recycled. Electrolytic cutting of ordnance items (a method that has been used at NWC) is one approach that would allow ready access to materials-others would include developing a method of purifying the material to recover specification grades, and developing a recovery process to recover the active ingredients from plastics. The latter would involve crushing or grinding methods, swelling, solvent extraction, and physical separation plus chemical attack.

Biodegradation

products would not result in pollution of the air or water. The Army has already succeeded in effecting biodegradation of TNT, RDX and HMX in preliminary veys regarding the amount of work done by Holston Defense Corporation. Research will be continued in this area.

> Another form of natural degradation being considered is photo-degradation. Through the use of light alone, or in synergism with bacterial biodegradation, in large remote areas of the sea, byproducts that could eventually be used as fertilizer could be reclaimed at a later date.

Tectonic Sinks

There are many earthquake-type cavities under the oceans, known as Tectonic Sinks, which could receive tremendous tonnage of materials without saturating. The suggestion has been made that use of these places (instead of the present Deep Water Dump) for disposal of certain purified materials may be highly useful. Electroreduction

Aromatic nitro compounds, as a result of Electroreduction of TNT could be reduced to corresponding amines that could be investigated plications. Low-lead gasoline is one area of interest, but this is just scratching the surface of that the process of modifying positions. explosives chemically is extremely costly. The cost could be greatly offset, however, if the resultant bycould be used in key commercial areas

problems connected with pollution Sky marshals will be responsible presence of increased amounts of on U.S. flag commercial aircraft. oxygen that would be present in the The marshals will be based at key

RESEARCH DEPT. AWARDS-During recent ceremonies held in Michelson Laboratory, Dr. G. J. Plain, Associate Department Head, presented awards to: (1st row, I-r) Walter Caffery, 30-yr. Fed.; Dr. Edward Fay, 20-yr. NWC; Dr. H. Dean Mallory, patent; Dr. Pierre St. Amand, patent; Dr. W. S. McEwan, patent; Dr. L. A. Burkardt, patent; (2nd row, I-r) Dr. William Finnegan, patent; Irwin Koff, 20-yr. NWC; Dr. William Green, 20-yr, Fed. McBride, 20-yr. Fed. and NWC; Carl Morley,

patent; Dr. F. K. Odencrantz, patent; Raymond King, patent; and Joseph Thomas, Benny Sugg and 5-yr. NWC. Carl Morley, an employee of the Electronic Systems Dept. was included in the ceremonies as he has been conducting work for his department in the Chemistry Wing of the Research Department. Not present for the photo were Charles D. Stanifer, patent award, and Arold

-Photo by PH3 Ronald Gray Mills, USN



Servicemen completing active noted, and will spend two out of employment as "sky marshals" by announced here. Likewise, ser- personnel be recruited and trained vicemen nearing discharge may be within the next six months. released from service up to 90 days possibilities. One major problem is early if they are accepted for such

The Defense Department will cooperate with the Treasury and Transportation Departments in a products were of the type that priority effort to recruit 2,100 Customs Security Officers - sky Service Entrance Examination marshals - according to a (FSEE) or Junior Federal Another suggestion that is being message to the Secretaries of the considered for investigation in- Military Departments and the volves diluting PEP materials to Chairman of the Joint Chiefs of make them compatible with fuel Staff from Assistant Secretary of oils for industrial applications. If defense for Manpower and this idea proves feasible, disposal Reserve Affairs Roger T. Kelley. abatement would be greatly to deter smuggling and pilferage reduced and might even result in and detect and prevent criminal more efficient burning due to the acts both at airports and in flight

"gateway" airports, officials

Personnel who are due for separation from active duty in the near future and who are interested in working as sky marshals should request to be administered an appropriate Civil Service examination — either the Federal Assistant (JFA) examination, depending on education and experience.

Sky marshals will be hired under the high-priority program as GS-4, GS-5 or GS-7 Customs Security Officers, with annual starting salaries of \$5,853, \$6,548 and \$8,098 respectively. Higher salary rates will be paid to personnel assigned to the New York City and Newark, N.J., metropolitan areas.

Because of the nature of air

security duties, long air flights will provide ample opportunity for paid overtime, spokesmen noted, and accommodations in foreign countries will be paid on an actual expense basis up to \$40 per day.

It was noted that the Bureau of Customs will recruit from sources other than the Defense Department as well. Applications will be processed on a first-come, first serve basis, and applicants can apply whether stationed within the United States or overseas.

General qualifications require that a sky marshal be a U.S. citizen, male, at least 21 years of age, in excellent physical condition, be able to pass an appropriate Civil Service examination, be able to pass a Bureau of Customs psychological test and oral interview, pass a background investigation, have no serious police record, possess a military record meeting standards for honorable discharge, and successfully complete four weeks (Continued on Page 8)

Youth Center Basketball Leagues **Report Week of Big Games**

Pee Wee Division

After three straight defeats by the Bulldogs, the Red Devils finally broke the ice, posting a 10-7 victory last Saturday morning. The first two games were decided by one and four points respectively, with the third game seeing the Bulldogs display a well-rounded, balanced attack when seven players each scored a basket in posting a 14-4

Midget Division

The Bears, who opened the season as if they would go undefeated, were upset by the vastly improved Bruins, 29-20.

The game, which was fairly even at half-time (18-17, Bruins), finally began to swing in the Bruins favor as they outscored the Bears, 7-2, in the third quarter.

the losers, while leading scorer of 2-0 records intact. the game, Eric Weathersbee, Nolans' 9 points for the winning

In other games, the Trojans

defeated the Indians, 15-6, and the Huskies defeated the Beavers, 24-

With the Trojans and Huskies winning, they are now tied with the Bruins and Bears in a four-way battle for first place.

Junior League

The two undefeated teams finally met, both carrying a 2-0 record into the ballgame, but the Bucks outhustled the Stars, 29-28, to take over sole possession of first place.

In other Junior games, the Sonics defeated the Rockets, 39-23, to tie for second place and the Bulls climbed out of last place with a 45-44 win over the Suns in a closely contested game.

Senior League

The Celtics and Knicks remained Kirk Gilbert scored 12 points for undefeated last week to keep their

The Celtics defeated the Lakers, tallied 16 points, followed by Ricky 45-40, and the Knicks nipped the Hawks, 44-42. In the other Senior game, the Pistons edged the Bullets.



EMPLOYEES GARNER PATENTS-Systems **Development Department employees of Code 304** who received patents recently were: back row (Ir) Maurice Westfall, Stuart Fields, Claude Brown, and Vernon Logue. Westfall, Fields, and Logue

received a group award; Brown received a single patent award. Leroy Marguardt, Code 304 Division Head, and Dr. Ivar E. Highberg, Department Head, front row (I-r) presented the awards. -Photo by PH2 D. E. Hart, USN

duty tours may be eligible for every three months flying. In his message, Mr. Kelley noted alone and additionally modified as the Treasury Department's that President Nixon has requested necessary for intended ap- Bureau of Customs, it has been that a permanent force of security

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ROCKETEER

Friday, January 29, 1971

Cutsinger Rolls 693 To Set Season Mark

Chuck Cutsinger rolled the Bonner Pryor, Cathy Bauers, highest series of the season in the Marvin Titus, Kurt Rockwell, Friday Night Mixed Foursome Larry Boyd, Richard Evert and League January 15, a 693 which Annette Lindsey were the big included a 269 game. Chuck's other shooters. two games were 234 and 190. Other David Furstenberg led the scores of note that evening: Bill Bantam league boys' scoring with Tomaras, 635; Sam Schoenhals, a 166 game and a 468 series. David 633. Royce Dowd led the ladies with Schad had the high game, a 172 a 581 and Darlene Herbstreit effort, and a 445 series. Mike turned in a 576 effort. Maggie Lindsey shot 162 and 453. Diane Branson had a 538 and Jeannie Witwer rolled 157 and Reni Titus Crom a 523. Kay Weeks rolled a 156. 532.

led the parade of high scoring. Jim which was followed closely by Netzer had a 614 and Jack Brown a Craig LaFleur, who shot 192 and 609. Smith's 670 included games of 514. David Branson had an even-225 and 249. Willie Johnson was 200 game and a 494 series while high for the women, rolling a 594. Rick Brandinger shot 172 and 492. Mag Branson had a 552 and Young Mike Hall, whose average is Darlene Herbstreit a 533. Alice a mere 108, showed a lot of promise Cutsinger had 502.

game and Pat Noland hit her first 193. biggie, a 205.

Premier League

of 214-212-246 for a 672 series to lead Jones had a 165. Lori Presnell (101 the scoring last Monday. Leo average) rolled a 150 game. Montano also turned in a triple-200: 205-224-200 for a 629 series. Fred Akins had 225 and 626, Thad Brightwell a 620; Ken Dalpiaz, 624; Jack Brown, 611; Joe Kokosenski, 605; John Ito a 604, and Gordy Zurn a 226

Ace-TV held on to their league lead by whipping Mercury Movers 3 games. Arden's Dairy also won three from Tim's Place. Allied Vending took two from NAF as did Boyd's Auto Parts from Ridgecrest 21. Lanes.

Midway League

Phil Roper shot the high series for the evening, 616, behind the scores of 220-216-180. Ernie Lanterman had a 236 and Dan Ryan a 234. Bob Jordy rolled a 221.

Wed. Nite Handicap

Connie Evans' 548 was the high series for the evening, followed by Mary Jane Clark (515); Sue Lewis (513) and Alice Cutsinger (503). Marian Sievert had a 213 and a 517, and Jenny Slates rolled a 206.

Kids' Leagues

In the Preps, Jeri Jeffris had a Richard Hoffer, Kathy Byrne,

In the Junior-Senior League, On January 22 Allen Smith's 670 Randy Stedman rolled 195 and 515 with a 200 game while brother Scot Wilma's series included a big 237 Hall, whose average is 106, rolled a

Bettye Clark led the young ladies with 175 and 434 followed by R. C. Jones put together games Sheilah Simmons 162-427. Susan

Desert League

Pat Keegan topped the league with a 634 series and John Dowd racked up a 608. Paul Cordle rolled a big 258 and Ed Simmons had a 253

Ding-a-Lings

The Twinkle Toes rolled 2184 and The Go Getters 766 to lead team scoring while Mary Shepard's 528 and Sharon Babbit's 184 led individual scoring, in action January

Koffee Klutchers

lead individual scoring on January 26. Paulette Treat also had a 190 game. The Bowl-onies (cute) shot 780 and Team No. 6 had 2220 for team highs. Women's Scratch

The powerful Monday Night Women's Scratch League tallied some good scores on January 25 at 5-3.

Hall Memorial Lanes. Shirley Thiele rolled a 223 followed by Darlene Herbstreit's 222. Maggie Branson had a 215 and Willie Johnson a 214. Connie Evans rolled 555





wrestling squad lost a close one. Antelope Valley match against Kennedy, which Burroughs also took the final match of the evening to win 24-23, lost in the final match. -Photo by PH3 R. G. Mills

Bud Eyre Squad Back In Contention

Mired deep in the basketball standings a week ago, Bud Eyre Chevrolet moved back into prominence by scoring impressive victories over NAF and the NAF Officers on the 1-2 shooting of Tom Westcott and Joe Jones.

The Bud Eyre team began the week by outrunning the third place NAF Hawks with fourth quarter fireworks.

Leading only 41-37 at the end of Lori Boyd had a 506 and a 190 to the third period, Westcott and Jones turned the game into a convincing 63-51 victory.

Westcott scored 20 and Jones 23 to tie NAF's Kent Turner (23) for high-point honors.

They returned to the court 72-47, and lift their season record to

Wescott was the game's leading scorer with 25 points, followed by Jones (20) and the Officers' Larry Gire (18).

League leaders Loewen's and 133 game to lead a parade of 10 a 576 series, Patty Maxwell, 567, Ace TV both extended their season children over the 100 mark. Erma Erickson, 564, and Lee Fox records to 7-0 with balanced attacks.

Ace TV used five men in double figures to outgun leading scorer

The NAF Hawks dropped their final period). third straight game by falling to Thursday to top the NAF Officers the Hustlers, 51-48, two days after their loss to Bud Eyre.

> The Hawks roared to an 18-5 lead retained a 27-17 advantage at and recorded a 75-31 win. halftime.

third quarter and then outscored Brad Royer with 16. NAF, 19-10, in the final period for the victory.

with 14.

The race for third place con- straight triumph. tinued, as VX-5, California Carl Hall (15) and Dave Taylor Telephone and the Wallbangers all (13) contributed to the Saints' scored wins to stay at the heels of attack.

the league leaders.

VX-5 scored 16 straight points at the beginning of the game and then held on to defeat Genge, 58-40. Ted Bailey scored 20 to lead Ace Herman Bowman led all scorers teammate Doug Karpstein with 12. Mike Hanson and John Martin

> led Genge with 11 points each. California Telephone held a mere 33-30 lead at the end of three periods, then went into a' terburners to race past the Pins

Whidden topped CTC scorers Foote who scored 12 (ten in the

James Brown scored 16 for the Pins and Needles and Jesus Garcia

The Wallbangers also took adat the end of the first quarter, and vantage of the Pins and Needles

Doug Kinney led the But the Hustlers narrowed the Wallbangers with 25 points, gap to six points at the end of the followed by Mick Rindt with 20 and

The Saints jumped to a 17-point halftime lead and then held on as Harley Blue led the Hustlers with Food Service rallied in the second 16 points (nine in the fourth half. The Saints, led by Rod Dorquarter), followed by Dale Dowd man's 20 points, managed to preserve a 68-65 win for their third

R. A. Gould Wins Annual Sierra **Desert Gun Club Hunter's Shoot**

R.A. Gould is the sort of person Sharpshooter) classes only. Those you wish to avoid if he's mad at you. On Saturday, January 23, dead-eye Gould fired 479 with 12 bullseyes, out of a possible 500-50x, to win the annual Hunters Field Match, held by the Sierra Desert Gun Club. Shooting a custom 22-250 caliber rifle, Gould zeroed in on the targets at the NWC Hi-Power Rifle Range to defeat all other marksmen in the meet.

Don Herigstad won the Marksman-Sharpshooter class with a 458-2Xtotal, using a Model

1894 25-35 caliber Winchester Rifle. Due to a lack of competitors in the Expert and Master classes, stage awards were presented in the combined MKS-SS (marksman-

winners were R. Dickus and D. Herigstad at the 200 yard range, and H. Frageman at the 100 yard range.

The Hunters Field Match is designed to allow the participants a chance to shoot their regular hunting rifles under simulate field conditions, without competing against match rifles and specialized target shooting equipment.



BURROUGHS GOLDEN LEAGUE ROUND-BALLERS-The Burroughs High School varsity basketball team currently own a 4-2 record in Golden League competition following a loss to Apple Valley and a win over Barstow. The team poses for a pre-game photo above. They are, front

row, I-r: Don Branson, Paul Viellenave, Bruce Hillard, Billy Bruce, Dick Graham and Mike Dowd. Back row, I-r: Coach Bill Moore, Dave Seeley, Greg Ritchie, Dave Farrington, Mark Moore, Jon Allan and Randy Stedman. The Burros will play Palmdale tonight at 8 p.m.

Gary Ziegler, as Ace defeated the Pioneers, 81-52. with help from Tim Higgins (14), with 13 points, followed by Tom Wee (12), Jerry Kissick (12) and Gary Anderson (10). Ziegler was the game's leading scorer with 23 The Loewen's Lions had little

trouble in pounding the Chaparrals, 85-17. Jimmy Ayers and Nelson Walts each scored 16 and Needles, 61-38. points to lead the Lions, followed by Garry Clark (12) and Carl Ames with 16 points, with help from (10)

Friday, January 29, 1971

NWC Conducting Management **Program Review**

The Center is currently conducting a cyclical position management program review which is to be completed by 31 May 1971. The program objective is to improve organization and use of manpower by identifying problems and roadblocks to the best use of manpower, documenting the problems, and developing plans of action to alleviate the problems. The objective is accomplished through a systematic review of organizations, functions, positions, and personnel performance. The review is being conducted by line. management in three phases: (1) a review of total organization and functions to determine if and where changes are needed, (2) a review of functions, positions, and personnel performance within each department, and (3) a joint evaluation of department organization, functions, positions, and performance of key personnel by the Department Head and the Deputy Commander, or Deputy Technical Director. Results of the review are documented on NWC Forms 5310-3 and 5310-3A.

Some of the desired benefits of the review are: optimum current organization for accomplishment of the mission, the best combination of functions for each position, a proper match of position and person for best use of manpower, a complete definition of the problems which exist with actions indicated to alleviate them, and a positive schedule for completing the actions.

Position management is a function of line management with staff support to the program provided by Central Staff, Code 1703, and the Personnel Department. Suggestions for position management improvements are invited by the departments and staff groups. (Details regarding the position management review are contained in NWC Instruction 5310 3A)

ESB Hires New Manager For Food Services

C. John DiPol, Chairman of the nounces the Employee Services as food. Employee Services Board.

Richard Connaughton has been hired as Manager of the Food Services operation, by the Ema background of 17 years in the Allergy and Infectious Diseases. food business.

Within a short time, it is planned weekend operations.

As are all of the Employee

ROCKETEER

20-YEAR PIN PRESENTED-W. R. Riley, former head of NWC's Personnel Department recently awarded a 20-year NWC service pin and a 20-year Federal Service pin to his secretary, Alice Day. The Personnel Department is now headed by Ray Harrison, a former Head of that department, who has returned from a two-year overseas tour in the Phillipines. The latter action was effective on January 25

'Tis the Season for Many Viruses, Those Tiny, Engimatic Whatsises

Nothing takes more advantage of a gracious host than a virus.

The result can be a bad case of the flu, a miserable cold, or any number of other diseases, including such familiar childhood ailments as chicken pox, mumps, and measles.

A true parasite, the virus is a minute entity that shows no sign of life until it bumps into an obliging host cell. Then nucleic acid from the intruder may become part of the cell, and the virus can reproduce itself-a prime characteristic of living things.

Seeks a Good Match

Every virus particle, or virion, contains a central core of nucleic acid surrounded by a protein coating, the National Geographic Society says. When a good match exists between virion and cell, the two may become attached. In some cases, the acid enters alone. More commonly, the cell swallows the Employee Services Board, an- viron whole, mistakenly treating it

Board will take over the operations Like a well-trained saboteur, the of the Food Services on the Center, nucleic acid causes the healthy cell effective 1 February 1971. to cease normal functions and start Previously the Food Services were manufacturing copies of the virus. operated by a Concessionaire Within half an hour perhaps 100 to under the supervision of the 200 viruses are produced. The cell bursts, and the viruses scatter, each ready to invade another cell. Vaccines have effectively controlled many of the viruses that ployee Services Board. Con- storm the body's natural defenses, naughton comes to the Center with reports the National Institute of

However, one of the most common virus-caused illnesses, to have the Dining Room, (Station the common cold, still defies Restaurant) open from 7 a.m. to 7 preventive efforts since it is caused p.m., seven days a week, with by at least 60 different viruses. special emphasis on evening and Each would require a separate vaccine.

Some viruses live in peaceful co-Services Board operations, the existence with healthy cells for Food Services is operated for the years before symptoms of infection benefit of all Center Employees appear. The cell continues its and is one of the facilities that normal activities, even dividing support the Recreation Council. into other cells. Then, for no known

reason, one of these begins wildly producing copies of the dormant

Assume Many Shapes pretzels, corkscrews, raspberries, tadpoles, toadstools, needles, and

cupcakes. are fantastically tiny. About one Fluids" (an article in the Princeton and Florida, million could fit into a single red blood cell. It would take one million-million-million polio

speed centrifuges, have scientists for ten Saturdays. and measure them.

enjoy a long life. A sample Certificate. preserved for three decades in one Water Saftey Instructors are Bersie at 375-5982. laboratory could still kill rats.

Several hypotheses have been suggested to explain the origin of viruses. They may have evolved from disease-producing bacteria. Some virologists believe they were once part of normal cells that lost the ability to reproduce except by becoming parasites.

New Prices

Effective February 2 1971, the price of hair-cuts at the Employee Services Board Barber Shop will be \$1.75. Flat tops and regular hair cuts will be the same price. Other services will be raised proportionally.

This is the first increase in prices since February 1969.

Any profits from the operation of the Barber Shop go to the Joint Navy-Civilian Recreation Council for the benefit of all employees of the Center, according to C. John DiPol, Chairman, Employee Services Board.

Dr. Leipnik Co-Authors Book On Plasma Physics

Division, and Prof. H. S. Green, "Order-Disorder Phenomena," have co-authored a 600-page journals. treatise published last month by publisher located in the Netherlands.

of the pre-requisites, both physical for the trade journals. and mathematical, for plasma physics. Topics covered include: Classical and quantum statistical mechanics; electromagnetism; theory of fluids; electrodynamics; basic magneto hydrodynamics; and the molecular theory of neutral fluids.

Appendices on probability theory, matrices and tensors, Fourier analysis, distribution theory, calculus of variations, and thermodynamics are included.

In the second volume, plasma devices and phenomena, advanced magneto hydrodynamics, and the classical and quantum kinetic theory of plasmas will be examined, and some original work of the authors presented. The second volume should appear on the market early next year.

Dr. Leipnik and Prof. Green began their collaboration in 1958, when Prof. Green first visited NWC from Australia, where he is Professor of Mathematical Physics at the University of Adelaide. A former President of Viruses can take the form of Prof. Green is also the author of February for consultation on solid "Molecular Theory of Fluids," in collaboration with Nobel Prizewinner Max Born. He has also

Dr. Roy Leipnik, of the Research authoritative Handbuch der Department's Mathematics Physik), "Matrix Mechanics," and consultant to the Physics Division, along with many articles in physics

Dr. Leipnik, now Senior Wolters-Noordhoff, a scientific Research Scientist at NWC, has worked in Code 30 and Code 60 since 1956. He has written several The first of two books on joint papers with Prof. Green on theoretical plasma physics to be theoretical physics, as well as authored by the two men, "Sources other articles in mathematics, of Plasma Physics" discusses all statistics and information theory

Since 1958, Dr. Leipnik has twice



Dr. Roy Leipnik

visited Australia and Prof. Green has made three trips to NWC. In addition, they have worked together at the University of Florida, in Gainesville, most recently during the 1970 fall quarter. Prof. Green is expected to the Australian Physical Society, visit NWC again sometime in state plasma physics. This will be a side trip for the Australian who will be on his way home after visiting at Whatever their appearance, they written "Statistical Theory of Michigan State University.

Red Cross Officers WSI Course

viruses to fill a ping - pong ball. A Water Safety Instructor course authorized for a period of two No one ever saw a virus until will be offered by the Red Cross at years. At that time, they are 1939, though they were known to the Center Plunge on Saturday exist decades earlier. Only in the mornings beginning this Saturday, last 20 years, with the help of January 30. The classes will be electron microscopes and high- held from 8 to 11 a.m. and continue

eligible for reauthorization if they have taught at least one course of record or have received their training during the authorization period

Those who need passes to enter information may contact Pat

COMPLETES 1000 HOURS IN A-7's--Lt. J. Vomastic, right, of VX-5, receives congratulations from Arnie Vang, Ling Temco Vought senior base representative, immediately after completing his 1000th hour in A-7 Corsair 11-s. Lt. Vomastic began flying the A-7 in 1968 with VA-27 and flew 234 combat missions before being assigned to VX-5 in June, 1970. Lt. Vomastic achieved the landmark on his last flight at VX-5. He has since been reassigned to Naval Test Pilot School, Patuxent River, MD. -Photo by PH1 D. L. King

Page Three



been able to identify, photograph, To enroll in the course, a student must be 17 years of age or older Once in a test tube, a virus can and possess a Senior Lifesaving the Center, or who want further

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specified.

"(2) If an individual chooses to wear sideburns, they will be neatly trimmed. Sideburns will not extend below the bottom of the earlobe, will be of even width (not flared), and will end with a clean-shaven horizontal line

"(3) If a beard or moustache is worn, it shall be well groomed and neatly trimmed in order not to contribute to a ragged appearance. This policy authorizes and includes full and partial beards, Van Dykes, and goatees.

"B. Uniforms: In addition to the foregoing policies associated with grooming, I believe that some discussion of uniforms is needed. "(1) I see nothing wrong with the wearing of the blue working jacket, raincoat, or peacoat with the dungaree working uniform. However, I want to emphasize that this uniform is only to be worn between work and the local residence

places.

privileges."

Although the Jolly Roger (local The popular "Chain of Fools," Program. Included in the duties of the in-

Concert Association Offers New York Pro Musica This Monday At Theater

The third offering of the Civic Concert Association's 1970-71 season, The New York Pro Musica, will appear on the Center Theater stage Monday, February 1, at 8 p.m.

Under the direction of Dr. John Reeves White, Pro Musica will provide China Lake concert-goers produced the genius of Dante and van Evck.

Pro Musica was founded in 1953 by the late Noah Greenberg, who remained its Musical Director until his death in January, 1966. Dr. White, the second Musical Director, has ensured the continuity of this remarkable ensemble in four brilliant seasons of more than 400 concerts. Noah Greenberg was fired with the conviction that early music could become a vital force in our time and, indeed, music of the centuries prior to J. S. Bach has acquired a

Partial season tickets will be available at the box office on the night of the New York Pro Musica concert, February 1, for the remainder of the 1970-71 season. Prices for the rest of the season, including 'bonus concert" February 11, are \$8.50, \$7 and \$5.50.

new vitality in the years since Pro Musica has come into existence.

vivid and richly colored as any the higher voices were seldom used aspect of the broad and event-filled excursion into the great musical countryside; dramatic pieces of Renaissance Spain; music in the is fretted. great Flemish tradition, and the England.

in full costume three 13th Century music dramas: "The Play of Daniel," "The Play of Herod," and "A Marian Play for Easter," which have become permanent treasures of the American musical scene. Pro Musica's restoration of Renaisance dance, costume and tertainment for Elizabeth" has the ear, and the mind."

library of available scholarly instrument, derives its name from editions, microfilms, and books dealing with every aspect of encased in a wooden cap, the cap Medieval and Renaissance music, the services of a research which the player blows. associate, and its now famous collection of early instruments, the 10 superb soloists and their conwith the glorious musical ductor have attained a height of masterpieces of the ages that authenticity and artistry which has won them the plaudits of both Shakespeare, Leonardo da Vinci, scholars and critics, and a legion of devotees throughout the world.

> Their recent tour of the Soviet Union and two South American tours were considered triumphs of the first order. In addition, the group has made appearances at music festivals in Berlin, Spain, Holland, Israel, Spoleto and Dubrovnik, where they were greeted with warm appreciation. The instruments used by this unique group are of themselves exceptionally interesting. Many are ancestral to our well known musical instruments of today. All, except the viola da gamba are modern constructions, modeled after old instruments in various collections.

RECORDERS are members of the flute family and were made in consorts or families. Praetorius in his Syntagma Musicum of 1619 The ensemble's repertoire is as shows eleven sizes, but states that "as they shriek so."

era from which it is drawn. A Pro VIOLE DA GAMBA of all sizes, Musica concert is an exciting even the smallest, were held between the legs. In general they past; sacred works first performed have six strings and sloping in the cathedrals of 13th Century shoulders in contrast to the are produced by reed pipes with delicate ballades from the family. The body is thicker than widely used as ensemble inmedieval French court and that of the violin, the strings more struments during the Middle Ages loosely strung, and the fingerboard

> the top or "chanterelle" string, is pitch and one at 4' pitch. double strung (two strings tuned to The Washington Post recently the same pitch).

than a sound board with varying things you can count on in a Pro numbers of strings across it, which Musica concert which separate its are activated by means of plectra work from many other ensembles poetry of music in "An En- or the fingers. It appears in in- specializing in older music. Cernumerable shapes and sizes in tainly what they do is authentic, been called "A feast for the eye, paintings of the Middle Ages and but more than that, it is alive. It is the Renaissance.

Supported by its excellent The KRUMMHORN, a soft wind its curved body. Its double reed is having a hole at the top through

The KORTHOLT is a capped double-reed like the Krummhorn and is a close relative of the Sordun and the Dulzian. Its double bore permits a remarkably wide range relative to its size.

The RAUSCHPFEIFE is a loud wind instrument with a capped double reed. Having a most piercing sound, it was made in families for use in outdoor performances.

The TRANSVERSE FLUTE, still in regular orchestral use, has been changed considerably from its original state. Made of wood, not silver, it did not acquire its elaborate key system until the late 19th century

The CORNETT combines characteristics of both the brass and woodwind families. The sound is produced via a cup mouthpiece, somewhat like that of the modern trumpet, but the instrument is made of wood and is fingered after the manner of a recorder.

The SACKBUT is the Renaissance equivalent of a trombone, of all the old instruments the one that has changed the least in appearance technique.

The PORTATIVE is a small organ consisting of one rank of stopped flue pipes. The REGAL is also a one rank organ whose tones France; lusty songs, dances and straight shoulders of the violin wooden resonators. Both were and Renaissance.

The HARPSICHORD is a The LUTE, the most popular and keyboard instrument in which the sounds of glittering Tudor reign in revered instrument of the sound is produced by "jacks" Renaissance, is a plucked string which pluck the strings when a key Not restricting itself to the instrument. It is tuned in the same is struck. Pro Musica's harpconcert stage, Pro Musica presents relationships as the viola da sichord was built by William Dowd gamba and, with the exception of and has two sets of strings at 8'

> analyzed the unique success of this The PSALTERY is nothing more ensemble: "There are certain music.



ROA OFFICERS OBLIGATED-Capt. R. E. McCall, left, Commanding Officer of NAF, obligated the new slate of officers elected to head the local chapter of the Retired Officers Association January 20. The new 1971 officers are, I-r: Stephen H. Herzog, Immediate Past

President, who stood in for President Jack Ratterson; LeRoy Miller, 1st Vice President; George Schneider, who stood in for 2nd Vice President Jack Lyons; Kenneth Johns, 3rd Vice President; and W. H. Routledge, Secretary-Treasurer. -Photo by PH2 D. E. Hart



WINS PICKERING AWARD-Arthur G. New, right, Commander of Flotilla 75, U.S. Coast Guard Auxiliary, Lake Isabella, and former Public Education Officer for Flotilla 76, China Lake, was the 1970 recipient of the Pickering Award, confered annually by the 11th District Auxiliary for outstanding accomplishment in the field of Public Instruction in Boating Safety. Robert McKnight, left, Commander of Flotilla 76, stood in for Earl E. Hart, Staff Officer for Public Education of the 7th Division, USCGA, in presenting the trophy and citation to Commander New.

107th Anniversary Whiskey Flat Days To Be **Commemorated February 11**

The 107th anniversary of Kern- three major categories: most ville will be commemorated during original, open to adults; most the 15th Annual Whiskey Flat original, open to juniors, Days, February 11 through 15, elementary through high school according to Lloyd Spradlin, age; and most amusing. president of the Kernville An example is this winner of Chamber of Commerce, sponsors yester-year: of the event.

Each year the residents of the history-laden town near Lake Isabella attempt to relive the days when gold mining was at its peak and the Kern River Valley was in contest must submit their entries its prime. The women don long on or before Feb. 6, may be skirts and ruffled petticoats and delivered by hand (or buckboard) men sport full beards and jangling to the Whiskey Flat General Store spurs, six-shooters strapped to in Kernville, or mailed to P.O. Box their sides.

plank across two whiskey barrels at the site of the original town of Kernville. Hence the name, Whiskey Flat.

Each year at this time local candidates for the title of the Honorary Mayor of Whiskey Flat kick off a no-holds-barred campaign approximately a month before the celebration. They stage barbecues, pancake breakfasts, Indian raids and can-can dancing to sell votes.

Visitors to Kernville during the staged.

"new" Kernville (the original site is payable," he said. "Thereafter is at the bottom of Lake Isabella) highlights the annual event. Judges award prizes for oldtime costumes, and floats entered in the affair

A favorite contest is the "Boot Hill" tombstone epitaph writing foray. Contestants turn in their entries burned in, cut in or painted on, a weathered board, not unlike those found in actual cemeteries for the convenience of throughout the Old West. There are registrants," Souders said.

'Beware of the fate Of Dead-Eye Dick

Instead of boom His gun went click."

Those who wish to enter the 366. Kernville 93238. Each entry is According to legend, an en- required to be accompanied by a terprising booze merchant set up a label on the back indicating make-shift saloon by suspending a category, name, address and - if a student entry - age and school.

> **Deadline Near** For '71 Auto Registration

The annual crush of registration renewal applicants before the February 5 deadline will be pretty hectic, stated Robert C. Cozens, Director of the State Department of Motor Vehicles.

four-day fiesta are treated to Jack Souders, manager of the historical tours, exhibitions of Ridgecrest branch of the Departbiscuit baking (miner-style), and ment of Motor Vehicles, stated that gold panning contests. In addition, it will be possible to get quick a talent contest, fiddler contest, "early bird" renewal service at the and "greased pig" contests are local DMV office. "For 30 days after closing time on February 5, a A parade through the streets of penalty of 10 per cent of the 1971 fee the fee is doubled."

> Owners of commercial vehicles, including pickup trucks, face a 100 per cent weight fee hike immediately after February 5, plus 10 per cent on other portions of the registration.

"Our office will be open on the morning of Saturday, January 30

EM Club) is closed for remodeling, Bob Furey, manager, has announced a dance to be held at the Community Center Saturday, 657, Room 210, Phone 2393. January 30 from 9 p.m. until 1:30 a.m. Furey has moved the club, Aircraft Gun Systems and Survivability Ofincluding the bar, to the Community Center for the occasion. led by Doug Spiers, will play their cumbent are the technical supervision own special brand of music for the engineering tests. Technical evaluation of all dance. Furey announced that, all guns and ammunition sub-systems permembers and their guests are invited to attend.

CNO Spells Out Appearance **Expectations**

(Continued from Page 1) or length of hair interfere with the proper wearing of any military headgear. The exact maximum length of the hair is no longer

"(2) Although the wearing of the working uniform to and from work and the local residence has been authorized, it is not intended that personnel be permitted to make other than very brief stops off base for personal necessities in this uniform. The working uniform remains a working uniform, not a liberty uniform.

"2. I wish to reemphasize that within the broad guidelines of the policies I have issued and amplified, it remains the responsibility of the officers in command to ensure that their personnel present a neat and well groomed appearance at all times, in all

"3. None of my recent directives have lowered our Navy Standards of grooming and dress; they have, however, represented changes in standards to reflect contemporary styles and trends. I ask for the continued support of all hands to demonstrate maturity and good judgement in shouldering the individual responsibility necessary responsible officers and petty officers to take hand to those few individuals who are not willing to accept the spirit of these special

EM Club Dance At Comm. Center



ROCKETEER

8-8

CREDIT UNION HONORS EMPLOYEE-Gene Boehme, left, manager of the Federal Credit Union at NWC, presents a 5-year service plaque to Flo Jordy, Head Cashier at the local financial institution, a title she has held since her first day on the job. Mrs. Jordy is the wife of Robert H. Jordy, and resides at 215-B Byrnes on the Center. Prior to coming to China Lake and joining the FCU, Mrs. Jordy was the bookkeeper for the Nevada Trucking Lines, Fallon, -Photo by PH2 D. E. Hart Nevada.

PROMOTIONAL OPPORTUNITIES

(Continued from Page 2) lerical work, of which 6 months must have consisted of work which demonstrated possession of ability to perform secretarial work above the trainee level. In addition, for the GS-5; 6 months of secretarial work which involved responsibility for serving as the principal personal office assistant to a lesignated supervisor, Job Relevant Criteria: Must be an accurate typist and a qualified tenographer. Advancement Potential: GS-4

may advance to GS-5. Mail and File Clerk, GS-305-4, Code 2505ponsible for the control and disposition of coming correspondence and documents for the Supply Department. Handles the care and operation of duplicating equipment Minimum Qualification Requirements: Two years of progressively responsible experience n administrative, technical, clerical or other fields of work. Job Relevant Criteria: Familiarity with office machines is desirable. Clerk-Dictating Machine Transcriber, GS-316-3, 4 or 5, 259-Performs as secretary to the Head, Material Division and the Material Division Officer. Minimum Qualification Requirements: One, two or three years of experience, depending on the grade level, of clerical work which included duties as a typist and included transcription from a dictating machine. Job Relevant Criteria: Must be a qualified typist and, at the 4 and 5 levels, must have experience in dictating machine transcription, Advancement Potential: GS-5

File applications for above with Naomi Campbell, Bldg 34, Rm 206, ext. 3118. Accounts Maintenance Clerk, GS-520-4, PD to preserve the fine appearance of No. 7117002Am1, Code 1764-Provides off a man in uniform. I expect station reports relating to payroll and labor, rol operations of employee payroll records and control functions relating to labor distribution. Minimum Qualification Requirements: 1 year of general clerical experience and 1 year of specialized ex-

> File applications for above with Mary Morrison, Bldg. 34, Rm 210, Phone 2032.

Heavy Duty Equipment Serviceman WG-58006-06, JD No. 303-1, Code 7076-Performs semi-skilled work on all types of Heavy Duty Equipment. Utilizes technical instructions, manuals and other publications which are applicable to the heavy duty equipment to be serviced, repaired and maintained in order to keep this equipment in good operating condition Qualification Requirements: Rating will be on the basis of the appropriate J Element Standard in accordance with the CSC Handbook X-118C.

File applications with Dora Childers, Code General Engineer, GS-801-11-12, PD No. 7030132, Code 30102-This position is in the fice. The incumbent is responsible for plan

ning, implementing and monitoring the testing requirements for the GPU-2A Gun Poo operational evaluation and all associated formance, including recommendations for design fixes and improvements also preparation of test reports, correspondence

and other administrative functions. Job Relevant Criteria: The incumbent must the experienced in methods and techniques of testing, defining instrumentation and evaluating test results. He must be capable of operating both independently and in the capacity of coordinating the efforts of others. He must be familiar with the operations of the Systems Development Department and the Naval Air Systems Command, Since the incumbent interfaces with various branches of the Naval Air System Command and other military organizations, he must be capable of exercising mature technical judgement and communicating his ideas effectively. Minimum Qualifications: one year at the GS-9 level for GS-11, and one year at the GS-11 level for GS-12. Advancement Potential: To the GS-12 based on ability to fulfill position requirements.

File above applications with Beverly Saiger Bidg. 34, Room 212, Ext. 2514.

The Naval Weapons Center, China Lake, California announces competitive promotion examinations for the following: GENERAL FOREMAN II (MAINTENANCE), WS-47040 14 LEADER, STOCKMAN, WL -69007-06.

Applicants must file Card Form NAVEXOS-4155AB, Standard Form 172 and Employee Information Supplemental Sheet with the Special Examiner, Code 652, China Lake, California, to be received or postmarked not later than 15 February 1971. Forms may be obtained from the Personnel Receptionist Bldg. 34, China Lake, California.

Electronics Technician, GS-856-8 or Elec tronics Mechanic, WG-11, Code 1873-Position is located in the Targets, Instrumentation and Evaluation Division of the Projects Depart ment, Naval Air Facility. Incumbent will align, maintain and test electronic used in drone aircraft operations. C and X Band radar transponders, command destruct receivers, airborne television systems and UHF telemetry transmitters are typical equipment. Installs and tests equipment in aerial targets and assists with new installations to meet project requirements. Assists to resolve technical problems en countered in drone operations. Minimum Qualification Requirement: For Electronics Technician, 2 years of general experience (technical or craft) plus 4 years of specialized experience which shows progression in . theoretical and practical knowledge of electronic theory and of characteristics, function, operation and capabilities of a variety of types of electronic equipment. Applicants for Electronic Mechanic will be rated on the basis of J-element standards in accordance with the X-118C.

File applications for above with Naomi Campbell, Bldg. 34, Rm 206, ext. 3118.



Students Study Tools Used In Communication

At a time in our history when the term "communication gap" has almost become a cliche, Murray School has provided two very special ways to overcome the gap: a journalism class for written communication, and an electronics class for transmitted communique. Calling WA6YBN

In a program which was begun more than 10 years ago by Lloyd Brubaker, an instructor at Murray School, Murray School students are trained in the building, and use, of ham radio equipment. Identified by the call letters WA6YBN, the program became a regular class six years ago upon the introduction of flexible scheduling at Murray.

In the class, the students progress through a series of classifications, from Novice, to General and in some cases, to the Advanced Class, where they are encouraged to build their own equipment.

In addition, the students receive training in FCC law and Federal Code, as well as some basic electronics, construction methods, and repair techniques.

In order to receive an operator's license, an applicant must be able to code from five to 15 words a minute. In addition, they receive practice in emergency communication through "civil disaster

games" and through a field day. which utilizes antennas and emergency power. Each year about 10 students receive their licenses from the FCC.

"Tumbleweed Tribune" Communications through a different media is taught by Mrs. Carolyn Hockett, who guides 23 students through the maze of Murray school news, including sports, interviews, features, art, llustrations and cartoons, to produce a newspaper, the 'Tumbleweed Tribune.'

Completely staffed by Murray students, the group meets for two modules at a time, three times per week. In this class, students learn 'newspaper" from the ground up. They are presently involved in correcting mistakes made in their first issue, as well as learning the multilith process.

Seventh grade students participating in this class are: Michele Ballenger, Carolann Dancy, Daniel de Roulet, Wendy Dye, Janet Gardner, Patty Petach, Sue Porter, Debbie Rich, Timmy Sichley, Cathy Smith and Ted Stump.

Eighth graders involved in the program include: Ricky Deskin, Carolyn Jauchler, Jan Jeanjaquet, Pat Lalor, Bill Lutjens, Pam O'Guin, Lisa Prentice, Lesli Reed, Elaine Ruff, Cathy Schafer, David Stowman, and Steve Vernon-Cole.



SCRIBES PORE OVER EDITION-Members of the journalism class at Murray School check mistakes in the first edition of the "Tumbleweed Tribune," a paper about Murray School, which is written by members of the class, taught by Mrs. Carolyn Hockett. The youthful journalists are, seated, 1-r: Pat Lalor, editor, and Cathy Schafer, assistant editor. Standing, I-r: Rick Deskin, sports editor, and Carolyn Jauchler, feature editor.-Murray School photo

New Monday Holiday Law

The new Monday Holiday Law falling on Monday fall on Saturday, went into effect on January 1, 1971. the preceding Friday is considered served on the following dates:

New Year's Day, January 1; Washington's Birthday, third Monday in February; Memorial Day, last Monday in May; Independence Day, July 4; Labor Day, first Monday in September.

A new holiday, Columbus Day, will be observed the second Monday in October; Veterans Day, fourth Monday in October; Thanksgiving Day, fourth Thursday in November; Christmas Day, December 25; and Inauguration Day (Washington, D. C. area only), January 20, observed every fourth year after 1965.

The new holiday observances are covered under Public Law 90-363. If those holidays not necessarily

Federal holidays will be ob- a holiday. This includes such holidays as New Year's Day and Christmas Day. If the holiday falls on Sunday, the following Monday is considered a holiday.



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