



THEY COVER THE DESERT — Scanning a local map are (l-r) Clyde Parker, Frank Kluck, Gary Peek and Sam Wyatt of the Indian Wells Valley Mine and Surface Rescue Team; LCdr. D. W. Strey, NAF Administrative Officer; and, for the China Lake Mountain Rescue Team, Dennis Burge, president; Frank Buffum and Russ Huse. Both rescue groups will take part in the

Sheriff's Search and Rescue Seminar set for Junction Ranch on the north range on May 25 and 26. The copter, used in R&D project work here, is the turbine - powered HU-1E. Preferred for rescue work in this area, it is the only craft of its type which can lift off with an 800-pound payload at altitudes to 14,000 feet. Civil Defense and Public Works Dept. supports the Seminar.

Bike Tests Set For All Schools Here Tomorrow

Bike Safety and Skill Tests will be given tomorrow, May 4, 1968, from 9 to 11 a.m. to all children in grades three through six at James Monroe, Desert Park and Murray Schools, as well as three schools in Ridgecrest.

The Ridgecrest - China Lake Optimist Club will be assisted in the program by V.F.W. Ship 4084 with their "life-a-bike" program; Boy Scout Troops 41 and 291; Girl Scout Troops 51, 139, and 172; Center Security Officers who will license bicycles; China Lake Elementary Parent Teacher Association Members and School personnel.

Teachers have been training children of grades three through six this past week in safe bicycle procedures, and pamphlets on bike safety have been distributed. Parents are urged to read these hand-outs and to make necessary repairs and adjustments to their children's bikes so that the test day will be a success for all children taking the tests.

Dance Will Aid TV Booster Fund

The Cactus Squares Community Project for 1968 is a Boost The Booster Benefit Dance set for Saturday, May 4, from 8 to 11 p.m. at the Community Center. Admission is \$1.00 per person and all proceeds from the dance will go to the Indian Wells Valley TV Booster Fund. Ivan Hall will be caller for the evening.



NEW PRESIDENT INSTALLED — Marjorie Reed was installed as the 1968-69 President of the China Lake Business and Professional Women's Club at a recent installation ceremony at the Officers' Club. Mrs. Reed (l) is shown here with the outgoing president, Mary Neufeld, and the installing officer, Ruby Shriner, a past president of the local club. Those selected to serve with Mrs. Reed but not included in the picture are: Irene Branham, First Vice-President; June Renfro, Second Vice-President; Clara Bower, Recording Secretary; Virginia Barber, Corresponding Secretary, and Helen Cornett, Treasurer. Deleta Munn was appointed Parliamentarian.

From _____	STAMP
TO _____	

SHOWBOAT

FRIDAY "THE POWER" (105 Min.)
George Hamilton, Suzanne Pleshette
7:30 P.M.

(Science/Fiction) Modern science lab is testing human endurance when things start to go wrong. Someone aboard has a super-intelligence capable of moving objects by mental power. Suspicion and murder, companions of mystery. (Adult, Very Mature Children.)
Short: "Sky Blue Pink" (Pink Panther, 7 Min.)

SATURDAY "MAGIC SWORD" (80 Min.)
Gary Lockwood
1:00 P.M.
Shorts: "Pancho's Hideaway" (7 Min.)
"Manhunt" No. 10 (13 Min.)

SUNDAY "JUDITH" (106 Min.)
Sophia Loren, Peter Finch
7:30 P.M.
(War/Drama) Vengeance-seeking wife hunts her former husband, a Nazi, who now aids the Arabs as Palestine sets for onslaught by them when the British leave. The Israelis use her as a lure in this fast-paced action thriller. (Adult, Youth.)
Short: "Space Kid" (7 Min.)

SUNDAY-MONDAY "THE COMEDIANS" (130 Min.)
Elizabeth Taylor, Richard Burton, Alec Guinness
7:30 P.M.

(Drama) NOT A COMEDY, but a hard-hitting indictment of Duvalier dictatorship in Haiti as four tourists become embroiled in local politics and police action. It is a story of stories, each brimming with excitement and drama. (Adult, Mature Youth.)

TUESDAY-WEDNESDAY "SOL MADRID" (91 Min.)
David McCallum, Stella Stevens
7:30 P.M.

(Crime Drama) The trail of the Mafia leads turns to Mexico where a narcotics agent traces one of their member's girl friend who escaped with millions. Can anyone defy the Mafia—and LIVE? A thriller in modern Mexico! (Adult, Mature Youth.)
Shorts: "Puss 'n Boots" (7 Min.)
"Race with the Wind" (9 Min.)

THURSDAY-FRIDAY "SONS OF KATIE ELDER" (122 Min.)
John Wayne, Dean Martin, Martha Hyer
7:30 P.M.
(Super Western) Three "black sheep" sons return home for the funeral of their mother and are met with hostile silence regarding the loss of her, and the ranch. A BIG bawling story with top cast and loads of action-filled drama. (Adult, Youth, Children.)



Vol. XXII, No. 18

Naval Weapons Center, China Lake, California

Fri., May 3, 1968

New Thin Film Deposition Gear To Boost Microcircuitry Work

Designers To Get Needed Circuits In Shorter Time

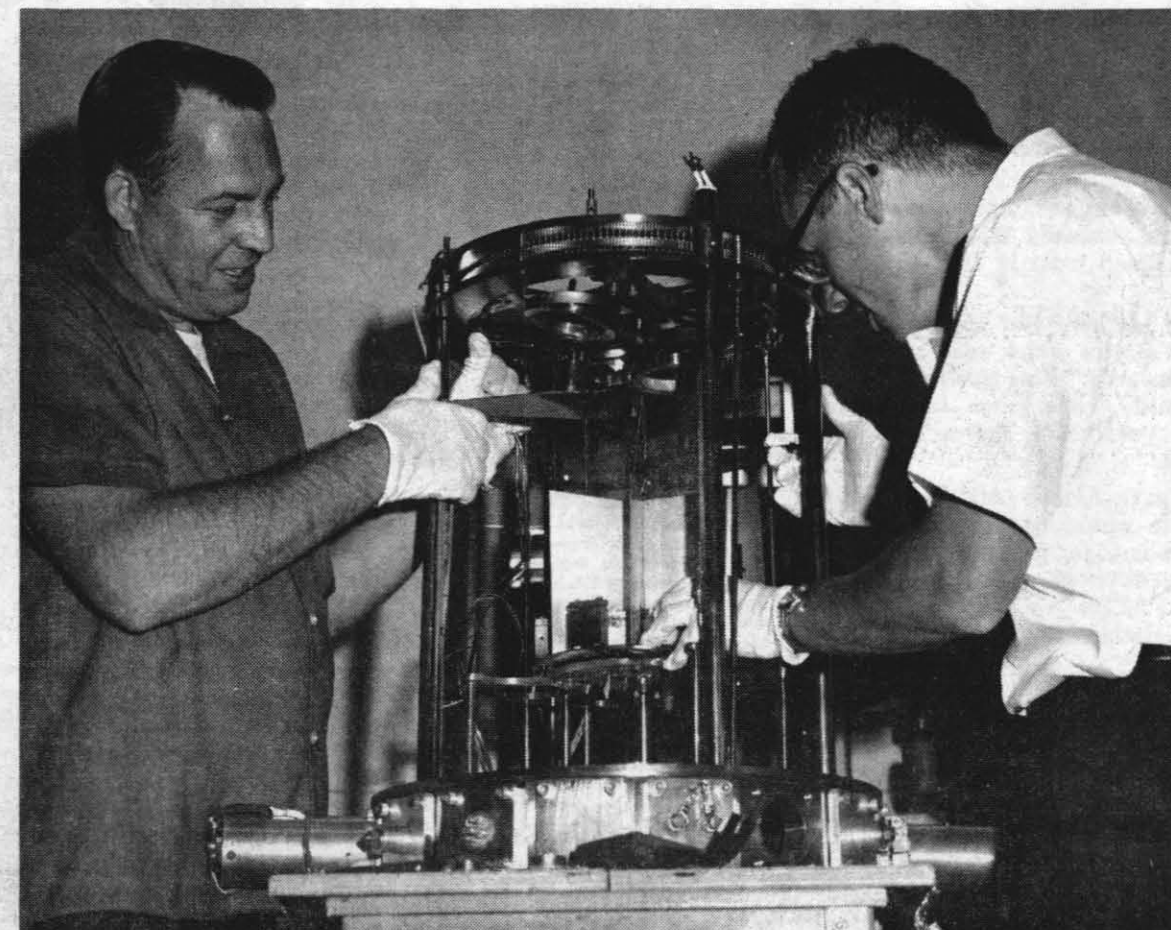
BY JOHN R. McCABE

New techniques are now being added to the microminiaturized circuit - building capabilities of the Engineering Department's Microelectronics Section. Now in adjustment stages is a new thin film deposition device for depositing circuit patterns by evaporation onto ceramic substrate bases.

Since its establishment in July, 1964, the Microelectronics Section has been carefully building up its ability to provide designers with circuits not available in industry, for research and development purposes. Now, with new thin film equipment, its workers hope soon to cut processing time for circuits, as well as other applications, to around a tenth or less of what it has been.

An ion pump vacuum system in one of the Section's Michelson Lab rooms have been the heart of its thin film work for years. The technique has been to deposit by evaporation a film of conductive metal on the circuit substrate, then to etch away unwanted portions of the metal by a photographic process to form the finished circuit.

With the Section's new "Car-



CARROUSEL ADJUSTMENTS MADE — Technician Chuck Cutsinger (left) and electronic engineer Willis Stewart make adjustments to Microelectronics Section's new Carousel thin film deposition rig. It will

enable the Section to produce circuits by this method some ten times faster than by the alternate photoengraving method. Cutsinger will operate ion pump vacuum system, with new rig installed inside.

rousel" evaporator rig molecules are driven upwards from a crucible, through a high vacuum, onto the substrate material, which is covered by a thin stainless steel mask. In successively decreasing steps, the mask has been perforated by photoengraving with a circuit pattern, a pattern accurate to within less than one two-thousandth of an inch.

The most important feature of the Carousel is its ability to carry six different substrates and six different masks, which can be interchanged by the operator to lay down successive different circuit patterns on the substrates.

The Carousel rig can hold several crucibles of different source materials at the same time, with a paddle - shaped "shutter" between the substrate and the source material. The shutter gives precision to the film deposition process.

The crucibles of source material are heated by either a five-kilowatt electron gun or a resistance - type heating filament, both of which are mounted at the bottom of the Carousel rig. All of this is contained under the bell jar of the vacuum system.

"We hope our new set-up will be ready to use in about two

(Continued on Page 8)



MAJOR JON R. ROBSON, a recent arrival aboard the Center, will serve in the capacity of Assistant Marine Corps Liaison Officer. Born in Chicago, Ill., Major Robson attended the University of Arizona for two years and entered the service in 1951. He came to China Lake after a 12-month tour of duty in Vietnam during which he received the Silver Star and Air Medal. He enjoys football and swimming in his off-duty hours. Robson and his wife Diana have three children: Deborah, 14, James, 10, and Patricia, nine.

Plans Readied To Celebrate NWC's 25th Anniversary

On November 8, the Naval Weapons Center will celebrate its 25th birthday, and according to K. H. Robinson, Chairman of the 25th Anniversary Commemoration, plans are underway to make it a memorable occasion.

It was announced that most of the activities will center around November 8, which was the day in 1943 when Secretary of the Navy Frank Knox signed the order officially establishing the U.S. Naval Ordnance Test Station (subsequently the Naval Weapons Center).

Plans call for a facilities tour for visiting "Early Timers," a commemorative speech by an official of the military establishment, and a 25th Anniversary Dinner.

The isolated location of China Lake and the large number of its "alumni" make it necessary to limit participation on most of the November 8 activities to an invitational basis. The Center will send invitations to those persons who played key roles in the Station's history during World War II, including those of prominence in NOTS - related military duty, in CalTech weapon programs and in NOTS civil service.

Early timers now living in the Indian Wells Valley area will not only receive invitations to the November events but will have an opportunity to participate in other 25th Anniversary year activities preceding the main events.

On November 9 it is planned to have a Center "Open House"

(Continued on Page 7)

Camouflage Rain Gear Invented by Policeman

One's visibility at night being a matter of life and death to the soldier in combat, and raincoats and ponchos being highly reflective when wet with rain, a glare - proof and rain-protective cloth would be a great boon to combat troops.

One man who has invented a workable, patented solution to this problem is James E. Grasswick, a Security Policeman at China Lake. On his own time in his home at 331 Dorado St., Grasswick produced samples of irregular - surfaced, vinyl-impregnated cloth.

"I was looking through an article on Viet Nam in a magazine one evening, when I read about the discomfort soldiers suffer because they can't wear ponchos. I considered that a challenge, and started looking for ways to make poncho cloth non-reflective."

"(The words in the magazine were: "The rain drums. The 14 men shiver through the long hours without ponchos. Ponchos would glisten.")

He found no way to make poncho cloth non - reflective, but after a month's experimentation he found a way to make it non-glare.

"I thought about animals that are glare - proof," he explains. "The crocodile is camouflaged and glare-proof, wet or dry, and so is the turtle. The crocodile skin and the turtle's shell have rough, irregular surfaces, so I drew up threads in poncho cloth until the cloth became irregular too. Then I sprayed it with brown and green vinyl paint."

Jim Grasswick feels there is nothing unusual about a policeman inventing new materials for warfare - at least not in his case.

SUNDAY, MAY 12



Center To Observe Armed Forces Day

CHAPLAIN'S MESSAGE

GOODNESS

By Senior Chaplain Paul Romantum



Goodness is a virtue which cannot be defined legally or morally. Some define it negatively as refraining from those things condemned by society such as adultery, drunkenness, robbery, cheating or lying. Others define it in terms of being a good neighbor, going to church regularly, giving to good causes or participating in worthwhile community enterprises. These are not enough to define it for all of them may be engaged in some unworthy motives.

We all recognize goodness when we see it for we can say it is characterized by a certain nobility of character in which courage, integrity, loyalty to ideals, and sensitivity to human values are outstanding virtues. Christian goodness includes these virtues but is much more, for it is a quality of life which proceeds from the center outward.

Goodness at its highest can be seen in the life and work of Jesus of Nazareth who by precept and example showed his followers the quality of life which proceeds from the center outward. It must be marked by a deep trust in God with eagerness to do the will of God.

The heart of the will of God is "love and compassion for all men with an outgoing spirit of service which seeks out channels of helpfulness and asks no rewards." This quality of inner life is marked by sincerity, humility, repentance for sin and confidence in God's healing and reconciling mercy by which we go forward in newness of life.

Long ago the Apostle Paul gave nine terms which epitomize Christian goodness and these would be hard to improve upon. "But the fruit of the Spirit is love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, self-control; against such there is no law." (Galatians 5:22,23).

Awards, Advancements Highlights Commanding Officers Inspection

Five Distinguished Flying Crosses, nine Air Medals and five advancements - in - rate were a few of the awards presented to members of VX-5 during a recent Commanding Officers inspection.

After completing a personal inspection of Squadron members, Capt. W. B. Muncie, VX-5 Commanding Officer, presented two Distinguished Flying Crosses and four Navy Commendation Medals to Lt. T. F. Taylor, and three Distinguished Flying Crosses to Lt. S. J. Fitrell.

Lt. D. R. McCrimmon was recipient of five Air Medals, two Navy Commendation Medals and two Navy Achievement Awards. Three Air Medals, two Navy Achievement Awards, and a Navy Commendation Medal were presented to Lt. G. W. Ferguson.

An Air Medal was awarded to Lt. D. W. Parsons, while Lt. R. G. Conaughton was presented a Navy Commendation Medal.

During the awards ceremony, Good Conduct Medals were presented to AEC Ronald C. Sparks; AZ2 Lonnie R. Kress; AMS1 Curtiss W. Hoover, and Edward S. Pujol.

Receiving advancement - in - rate and their new designation are AEC Nelson J. June; AE1 Stewart A. Drake; AT1 Charles E. Garton, and AMS1 Jack Williams.

Anyone who has ever been a Red Cross volunteer in any of the Red Cross programs and is not on the list receiving the local Newsletter, please call Mrs. John Strang, Ext. 73281.

PROMOTIONAL OPPORTUNITIES

Present Center employees are encouraged to apply for the positions listed below. Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

The positions described here are effective from May 3 to May 10, 1968.

Mechanical or General Engineer, GS-11 or 12, Code 4561 - Incumbent will perform design and development studies on an advanced cluster weapon; do liaison with other naval activities and contractors, and prepare project plans and reports.

File applications for above with Jan Bixler, Bldg. 34, Rm. 24, Phone 72723.

COMPETITIVE PROMOTIONAL EXAM

The Naval Weapons Center, China Lake, California is announcing a competitive promotional exam. Shop Planner (Electrician) Ann. No. NWC-IVa-13(68), issued May 6, 1968. Applicants must be either career or career - conditional employees of the Naval Weapons Center, China Lake, or Corona, California. File Card Form NAVEXOS-4155-AB and Standard Form 57 with the Special Examiner, China Lake, California. Card Form NAVEXOS - 4155 - AB and Standard Form 57 must be received or postmarked not later than May 20, 1968.

AMENDMENTS

An amendment to Foreman (Leadingsman) Chauffeur, Ann. No. NWC-IVa-12(68), issued April 22, 1968, is announced. The Qualifying Trades are amended to include Truck Driver, Truck Driver (Heavy) and Truck Driver (Heavy Trailer). The Closing Date has been extended to May 13, 1968.

An amendment to Leader, Sheet and Plate Metal Worker, Ann. No. NWC-IVa-11(68), issued April 22, 1968, is announced. The Qualification Standards and the Qualifying Trades are amended. See announcement. The Closing Date has been extended to May 13, 1968.

Mechanical Engineer GS-430-11 or 12, PD No. 555061-1, Code 5524 - The position is that of Mechanical Engineer in the Electro-mechanical Division, Engineering Department. The incumbent is responsible for the design and/or production engineering, redesign, test, documentation, and evaluation of mechanical components and/or assemblies which improve the producibility ease of usage, conservation of essential materials, and improves the performance and the reliability of miniature inertial systems of advanced guided missiles. The incumbent must have a Bachelor of Science degree in Mechanical Engineering.

File application for above with Pat Gaunt, Bldg. 34, Rm. 34, Phone 71514.

Placement Tests For Bakersfield College Students

Students who plan to enroll next fall at either the Desert Campus or the main campus of Bakersfield Junior College are urged to take a battery of placement tests on Saturday, May 11, at 8 a.m. in the Burroughs High School library.

Three separate tests will be given including: School and College Ability Test, Nelson Denny Reading Test, and English Classification Test.

A separate mathematics test will be given to students who have passed trigonometry with a grade of "C" or better and who plan to enroll in calculus (Math 3a).

The first three tests will take approximately five hours and the math test will take an additional hour. Further information can be obtained by calling the College office at ext. 375-2348.

AAUW Will Hold Membership Tea Tuesday, May 7

The American Association of University Women will hold its annual spring membership tea next Tuesday, May 7, from 3 to 5 p.m. at the home of Mrs. Marion F. White, 1251 Wayne St., Ridgecrest.

All women college graduates are invited to attend the tea. Additional information may be obtained by contacting AAUW membership chairman Mrs. D. R. Cruise at NWC Ext. 725231.

EDITORIAL

IT'S YOUR DAY!

"As Commander-in-Chief, I invite every American to participate in the 1968 observance of Armed Forces Day which honors these courageous men and women of our forces for freedom."—President Lyndon B. Johnson in his Armed Forces Day message for 1968.

"Forces For Freedom" is the theme for Armed Forces Day, May 18, 1968. No finer theme honoring today's serviceman could have been chosen. It honestly portrays his mission. It characterizes his devotion to duty, courage and stamina in trying times.



But it is appropriate that each individual serviceman to whom the day is dedicated, take a reappraising look at himself to make sure he deserves the honor. The decision should be conclusively in the affirmative.

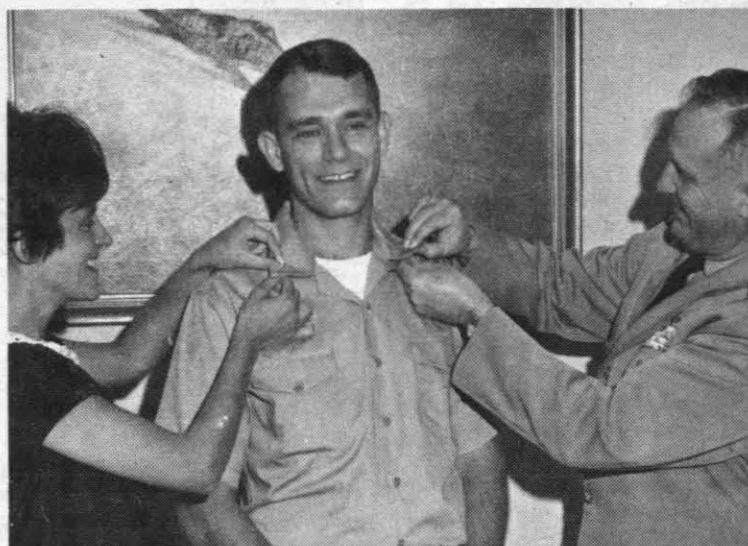
The average serviceman is not in the habit of strutting and bragging about himself. Generally, he goes about his job quietly and conscientiously, endeavoring to live up to the respect and trust the American people have in him.

This holds true for the serviceman in Vietnam. He may be at Khe Sanh, living from day to day in the knowledge that he wouldn't be there if he wasn't needed. Or, he may be stationed in the U.S. In both places he tries hard to do his job.

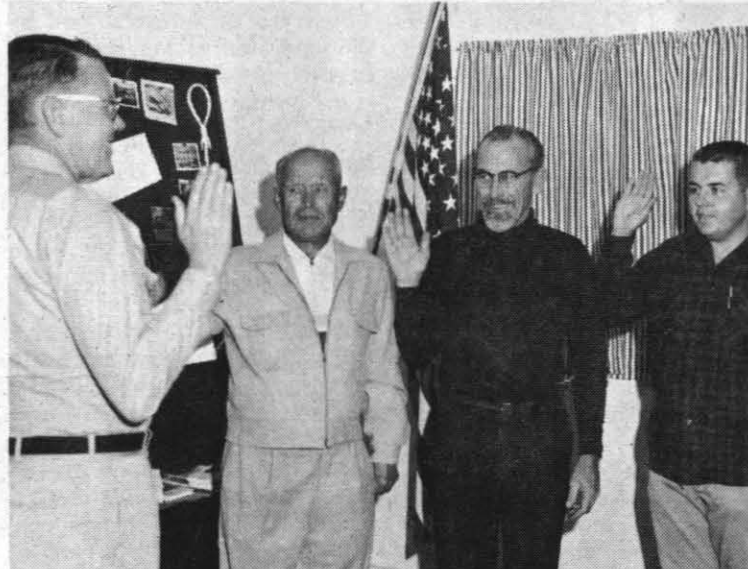
It doesn't matter where he is; what's really important is that he's doing his assigned job in the best possible way he knows how. In short, he's working for a free, peaceful world.

In his message, President Johnson said: "The true peacekeepers are those who wear our country's uniform. In Vietnam—and around the world—they perpetuate the ideals which made and preserve us as a nation."

Wear your uniform proudly, Armed Forces Day is *YOUR* day. (AFPS)



ONE GOOD TURN DESERVES ANOTHER — Mrs. William L. Talley (l), assists Capt. R. F. Schall (r), NAF Commanding Officer pin Lieutenant (junior grade) insignia on the collar of her husband during a recent promotion ceremony. One week later, April 13, Mrs. Talley does a "turn about" and presents her husband with a 7 lb., 12 1/2 oz., baby boy named after the father and born in the Center Hospital at 4:46 a.m. Lieutenant Talley is Legal Officer for NAF. The Talleys also have a one-year-old daughter, Theresa. They reside at 302-B Fowler on the Center.



JOIN COAST GUARD AUXILIARY — Thornton Hilborn (l), Commander, U.S. Coast Guard Auxiliary, Flotilla 76, swears in new members Harry Sidewind, Herbert Hewston, and Everett Long Jr., during a recent club meeting at 355 McIntire. New members are urgently needed by the club. Meeting on the third Wednesday of each month, the primary aim of the auxiliary is to promote and instruct safe boating and provide safety patrols on navigable waters.



ALL READY TO GO — Lt. Gary L. Gottschalk, an A4 Skyhawk pilot assigned to Naval Air Facility, completes a check-out on his aircraft in preparation for his role in the coming Armed Forces Day program scheduled at Naval Weapons Center on Saturday, May 18, from early morning to late afternoon. The annual celebration and salute to members of our armed forces will include an NWC Open House, Kiwanis Club Breakfast, NAF and VX-5 with static, glider, weapons and parachute displays.

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ARMED FORCES DAY AHEAD — An aircraft crew assigned to VX-5 is busy at work securing an A7A Corsair II similar to the type to be displayed and flown here during Armed Forces Day. VX-5 plans static displays and aerial demonstrations on Saturday, May 18 at Naval Air Facility.

Crime Reports To Be Offered In Rocketeer

The Naval Weapons Center Commander announced that from time to time, and as warranted by circumstances, periodic notice of incidents of repeated lawbreaking on the Center will be published in the Rocketeer.

The decision followed a Wednesday, May 1, Law Day meeting between the Command, the president of the China Lake Community Council and other interested Lakers. Included among those who met with Command were Kenneth Miller, Council president; Frederick Nathan, William Hattabaugh, William Sorbo, Emanuel Dunn, Mrs. Judith Lind and Joseph Dorgan, private China Lakers.

This meeting was a follow-up to an indicated desire for information on the frequency and types of lawbreaking at China Lake, expressed at the April 11 Town Hall Meeting.

Services Join In Program To Solve Similar Problems

Army, Navy and Air Force have agreed to join in a program to bring about coordination among the electronics engineering and installation agencies of the military departments.

Under the program, tri-service working groups will seek solutions to problems of mutual concern and develop common installation standards beneficial to all military departments.

Each military department will be delegated detailed procurement, engineering and installation responsibilities for its part in each program.

Assessment

Assessment No. 148-76 will be waived on the death of GEBA-CLMAS member Elbert E. Smith, announced Secretary-Treasurer Joseph M. Becker.

Elbert Smith, an employee of the Weapons Development Department, succumbed from a heart attack at Lake Crowley last Sunday, April 27.



WATER SAFETY STUDENTS — Ellen Seufert (l), American Red Cross Water Safety Instructor, briefs her students on the various styles of swimming. Reviewing life saving skills during the six Saturday morning classes in the Center Pool are, back (l), Connie Clark, Bill Beresford, Frank Buffum, Elly Crutchfield and Betty Sutherland. Front (l), are Carol Arnold, Darlene Meier, Eric Gossett, and Phyllis Schultz. Second part of the water safety training will be instructed by Carol Chatterton. The classes were held each Saturday from 8 to 11 a.m.



LITTLE PEOPLE DONATE TOO — Tammy Lynn Wilson (l), and Lexia Ann Rose seem mighty happy being able to add their share to the China Lake TV Booster Fund Drive campaign collected by Crash Captain Bill LaCombe of the NWC Fire Division. Besides, the young people had an opportunity to stand on the rear end of the glistening red pumper truck. According to Bob McKnight, Fund Drive Chairman, as of last Tuesday volunteer firemen and other local volun-

teers. Helping to boost the fund drive closer to the \$50,000 goal are the Cactus Squares, who, according to George Thorneburg, president of the club, will hold their annual benefit dance tomorrow evening with proceeds going to the drive, and the Ridgecrest Elks Club sponsoring a formal dance Saturday, May 11, donating proceeds to the Fund. Center Firemen continue to cruise the local area contacting residents for donations for this worthy cause.

Setting for 1968 Grad Celebration

The 1968 Senior Class at Burroughs High School will hold its graduation party at Disneyland Friday, June 7. Graduation exercises will be held on the preceding evening and there will be a brief reception immediately following in the school's multi-use room.

Disneyland is setting a side several dates in June for the exclusive use of graduating seniors. Transportation to and from Disneyland will be by charter bus. Admission will be by special pre-purchased Grad Night Ticket, which will provide unlimited use of rides and attractions. Dancing and entertainment will also be available during the 11 p.m. to 5 a.m. period.

Tickets are now available at the cashier window of the Burroughs High School business office.

Plans Readied To Celebrate NWC's 25th Anniversary

(Continued from Page 1) for the public for which the theme will be 25 years of progress.

The main goal of the activities is to increase the awareness and appreciation of the Center's historical heritage and the long - range significance of its work.

In preparation for the 25th Anniversary activities, a list is being compiled of Center "Early Timers" in Indian Wells Valley. A special program is scheduled for this group on May 17, at which time the Station's first Commanding Officer, Rear Admiral S. E. Burroughs, Jr., USN (Ret.), the Station's first Technical Director, Dr. L. T. E. Thompson, and a representative of the California Institute of Technology will serve on a panel for searching out recollections of the early days of NOTS.

Those persons who meet the criteria listed below and who have not received a notice on this matter by mail should send by May 10 an informal note stating their early connection with the Station to Mary Miller, Code 75201, or phone 71657.

The "Early Timer" designation applies to any Valley resident with one year or more of service to NOTS of which part was before the end of 1945. NOTS service includes NOTS or CalTech - related military assignment, work for the Cal-Tech weapon programs, civil service employment for NOTS, or work on the Station for supporting activities (bank, schools, Exchange, Commissary, post office, etc.). This does not include construction contract work.

Also included are all military personnel now in the area who were assigned for training at NOTS during World War II regardless of length of assignment, any persons who resided in the area during their childhood (before the end of 1945) and have subsequently worked for the Center for one or more years, and surviving spouses of persons qualified by any of the above criteria.

The Rocketeer

Official Weekly Publication
U.S. Naval Weapons Center
China Lake, California

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DEADLINES:

News Stories.....Tuesday, 4:30 p.m.

Photographs.....Tuesday, 11:30 a.m.

The Rocketeer receives Armed Forces Press Service material. All are official U.S. Navy photos unless otherwise identified.

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Phones.....71354, 71655, 72082



DIVINE SERVICES

Protestant—(All Faith Chapel)—

Morning Worship—8:15 and 11 a.m.

Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Center Restaurant.

Roman Catholic (All Faith Chapel)—

Holy Mass—7, 9:30 a.m., and 12:30 p.m. Sunday.

Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m.

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

Confessions—7 to 8:00 p.m. Saturday.

NWC Jewish Services (East Wing All Faith Chapel)—8 p.m. every first and third Friday.

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

THE LOCKER ROOM

A Game of Cat and Mouse

By ED RANCK



Like everyone else who has ever written a sports column, we spent some time a few weeks ago talking about what appears to be the ridiculous playoff situation in professional basketball. The point in question is the fact that the NBA spends six months and an 82-game schedule eliminating four of the twelve teams.

When you talk about a situation where a team competes in a full schedule of play with a .375 won and lost record, then gets an equal chance at the world championship, it's not hard to find a few flaws in the system.

But if the current final series between the Boston Celtics and the Los Angeles Lakers is an indication of how the playoffs are to be conducted in the future, it may be a good idea to reconsider and allow the whole league into the post season proceedings.

The current world championship series is, to say the least, a great one; probably the finest final series that has ever been played in the NBA. For the first time in the recent history of the league the teams in the final series are evenly matched. As this is written the Celtics are ahead 3-2 and at this moment could be the world champions for the ninth time in the last 11 years.

But there was no doubt from the very beginning that this was going to be a championship series that was a toss-up. In the first four games it was the team that ran that won. The Lakers — younger, faster and with an array of shooters that the Celts can't match — appeared to be the better team. But the Celtics defeated the LA club twice at their own game: the fast break. Considering that the use of the fast break as a basic offensive weapon is practically a Boston invention, it's not surprising that the Celtics remembered how to execute the maneuver.

The fifth game probably was the classic of the series so far. Exciting, although at times it looked like the Special Services Spoilers were playing an inter-squad game, the game was won by Boston in predictable Celtic fashion. They won in overtime by making the clutch plays at critical moments, something the Lakers were unable to do.

But you have to give the Lakers quite a bit of credit. It is obvious that they didn't come into the finals with the intent of playing dead. Down by 18 points in the first period of the fifth game, they came back to take the lead early in the second half. Down by 13 with less than five minutes to play, they came back to tie in the final minute and should have won, had Elgin Baylor been able to hit a fairly easy jumper from the right side.

You have got to give the LA club credit because they are a team that was considered dead at mid-season, and at this stage of the series are of genuine championship caliber.

The comeback of the Celtics is another story. The team over the years has built what might be called a Yankee image. They were winners, they were proud of the fact and not the least bit modest about winning the world championship eight years in a row.

The team was practically invincible from 1955 through 1966 and underdog lovers everywhere suffered during their reign as kings of the pro basketball world during that time. When they were dropped on their wallets by the Philadelphia '76ers last year, the Celtics were expected to duplicate the feat of the New York Yankees: sink to the bottom of the league, never to be heard from again.

Win or lose in the current series, Boston has been able to do what no other team in professional sports has been able to accomplish. They have revitalized what was supposed to be a crumbling dynasty. They haven't been able to do this with new blood; it is the same old Celtic ball club. Although they were supposed to be dead a few weeks ago, they are still in business.

The Celtic players have proven that their pride over the years wasn't false. It wasn't based on ego derived from the fact that they happened to be the best team around at the moment. The team has been unwilling to take it's losses, retire and count it's money, a classic maneuver used by ex-winners.

The 1968 club is a team that even an underdog lover can admire. They have class and desire and when they do finally fade from old age one of these days, they will be missed by everyone who loves the game.

CENTER LIBRARY LISTS NEW BOOKS

A complete list of new books is available at the library.

Fiction

Brunner—Quicksand.
Deal—The Walls Came Tumbling Down.
Playboy—Book of Science Fiction and Fantasy.
Prather—The Kubla Khan Caper.
Queen—All-Star Lineup.
Sohl—The Lemon Eaters.

Non-Fiction

Adams—1942: The Year That Doomed the Axis.
Cutler—How to Arrange Flowers for all Occasions.
Erickson—The Military-Technical Revolution.
Glasstone—Sourcebook on the Space Sciences.
Hays—Taking Command.
Huntington—On the Edge of Nowhere.

Winter Bowling Becoming Hot In Final Weeks

Wilma Johnson rolled 535 and 548 to lead the China Lake Women's Handicap League during the last two weeks of action at the China Lake Bowl. Wilma also took high game honors for both nights with games of 223 and 191.

Top scores during the period included Cynthia Schoenkals, 512; Betty Kirwin, 509; Mary Jane Clark, 508; Estella Paine, 503, and Betty Cartwright, 502. Second high individual game was rolled by Royce Dowd with 215.

In the Thursday Afternoon Trio, Sally Stephenson had a 204-536 to lead the way while Viviane Dalpiaz was next with 520. Sally rolled a 189 to take single game honors during the following week's action, and Viviane had high series with 493.

Roy Fisher rolled a 234, high individual game for the week to take singles honors in the Midway League. Bob Owens had high series, hitting 167-231-191 for a 589. The Chilliers rolled a team series of 2983 to move into second place, two points behind the league-leading Elk's Lodge.

Fred Dalpiaz rolled a 594 and Patty Maxwell had a 515 to pace the Mixed Foursome in the league's final week of action. Patty had high game for the ladies with 195 and Ray Freascher rolled a 223 to lead the men. Other high individual games included Jack Herbstreit, 219; Tom Zurn, 215; Bud Slates, 213; Fred Dalpiaz, 211-201; Dan Branson, 204-204; Chuck Cutsinger, 201; Vivian Dalpiaz, 184; Judy Zurn, 181 and Carol Barker, 184.

In the Mixed Foursome's team competition, the "J" Birds finished on top with a record of 49½-34½, edging the Coca Cola Kids and Noble Pontiac Buick who finished with 49-35. C-B's were fourth with 47-37, and Ken's Liquor was next with 45-39.

In individual competition for the year, Chuck Cutsinger had high series with 708 and Ray Freascher was second with 704. Maggie Branson rolled high series for the ladies at 569, Patty Maxwell had 566 and Jeanne Schreiber rolled 548. Ray Freascher rolled high game with 267, while Tom Zurn had 257 and Chuck Cutsinger hit a 255. Jeanne Schreiber led the ladies with 236, Patty Maxwell had 233 and Maggie Branson rolled a 222.

Softball Play Starts Monday

The schedule of the 1968 China Lake Softball League will begin Monday May 13, according to Athletic Director Ray Gier.

Eight teams, including the NAF Hawks, Genge Chapparrals, Magic Cleaners, NWC, El Rancho Motel, VX-5 Vampires, Ace TV and the Engineers will compete in the league. The schedule will include four round-robins, and action will continue through late August. Game times will be at 6 and 8:30 p.m., Monday through Thursday.

Earns Rifleman Badge



RIFLEMAN AWARDED — Captain R. F. Schall (I), Naval Air Facility Commanding Officer, on behalf of the Bureau of Naval Personnel, Department of the Navy, awards ATC Gerald C. Inman the U.S. Navy Bronze National Rifleman Badge. The letter accompanying the award reads, in part: "The long and arduous training required to reach this degree of skill in the use of small arms is recognized and appreciated, and you are congratulated for your outstanding performance. Further, you are encouraged to continue to strive for the attainment of the Distinguished Badge which requires 30 points." Chief Inman reported aboard NAF July 1, 1966. He is actively engaged in improving his weapons proficiency and has participated in Scuba diving and sky-diving. He also has a private pilots license. Chief Inman is married to the former Mary K. Ennis of San Antonio, Tex. The Inmans' and their three children, Melody, 15; Maureen, 13, and Gerald Jr., 11, reside on Center at 109-B Byrnes.

Trout Season Should Be Excellent According to Latest DFG Reports

Prospects for California's general trout season which opened last Saturday, should be excellent if the mild weather of recent weeks continues, the Department of Fish and Game reported.

The trout season continues through November 15 in most of the state with a limit of 10 trout per day, 10 in possession, but not more than 10 pounds and one fish. Anglers 16 years and older are required to have a basic angling license (\$3) and two license stamps (\$1 each) in their possession when fishing for trout.

Generally, mountain lakes are open to the 5,000-6,000 foot level in the north and 7,500 to 8,000 foot elevation in the central and southern Sierra.

The DFG issued these reminders to trout anglers. Check the angling regulations for special rules and closures. Many streams are closed for spawning until July 1, and, if leaving the main roads in the mountains, make local inquiries and check weather reports and road conditions. Spring weather can change fast in the mountains.

DFG field personnel compiled the following forecasts for anglers: "Exceptionally good" is the prediction for the Inyo-Mono area. Most lakes and streams are open, and 150,000 catchable - size rainbows have been stocked in roadside waters. In addition to popular Crowley Lake, good

bets include Bridgeport Reservoir, Twin Lakes above Bridgeport, Convict Lake and June, Gull, Silver, and Grant Lakes on the June Lake Loop. Questionable because of ice and snow are Sabrina, North and South lakes, Rock Creek Lake and the Mammoth Lakes. Pre-season stocking will extend from Kennedy Meadows on the South Fork of the Kern, in Southern Inyo, to the West Walker River in northern Mono County. Topaz Lake, open to all - year fishing, is another excellent prospect.

Anglers are reminded that Cottonwood Lakes numbers 1, 2, 3, and 4 are closed to all fishing to protect golden trout broodstock. In Southern California, which has an all - year trout season, April 27 marked the trout bag limit change from five to 10 in Los Angeles, Riverside, San Bernardino, Santa Barbara, and Ventura Counties, except for Cachuana, Legg, and Puddingstone lakes, which have an all - year five-trout limit.

In Orange and San Diego counties, the higher limit is in effect except for Irvine, Jennings, Murray, and Wohlford lakes, which also have five-fish limits all year.

To maintain fishing quality, 60 Southern California roadside waters are frequently restocked with an all-year total of 1,209,500 catchable - size rainbows weighing a total of 121 tons.

LSD - One Of The Most Powerful Drugs

The assignment this week, dealing with narcotics and the drug series, really had the staff writer snooting, scooting and d scurrying around for factual information on the subject which would prove of interest to our readers. Some of the questions to be considered were: Where do we go to obtain research material for this series today? Who is the most reliable and up-to-date source for this type of information?, etc. Right off, one might consider using reference material in the Center Library or spend time in one of our local hospitals or nearby universities on the research project.

But time, on this job, always seems to be at a premium, so we contacted our Center Hospital authorities for assistance. They, in turn, referred the writer to a man who has devoted many long hours to the study of drugs, primarily LSD. He is, we were told, the one man in Southern California who could supply us with the very latest material on the ever increasing use of LSD and the effects this drug has on its users.

The specialist is Dr. J. Thomas Ungerleider, Assistant Professor, Department of Psychiatry, UCLA Center for the Health Sciences in Los Angeles. Doctor Ungerleider was contacted by telephone and he graciously furnished the following important information for use in the Rocketeer.

The material was extracted from Doctor Ungerleider's and his associate Dr. Duke D. Fisher's article, "LSD Today," as it appeared in the "Medical Digest" printed in July, 1967. Doctor Fisher is a Psychiatric Resident, Department of Psychiatry at UCLA.

Doctor Ungerleider and Fisher begin their article by pointing out that one of the most powerful drugs available today is lysergic acid diethylamide tartrate, commonly called LSD 25 or, by users, "acid," or "L." It would be extremely difficult to provide a comprehensive picture of the drug itself, without taking into account the controversies its very existence has engendered; an "LSD hysteria" seems to have engulfed everyone.

There has been so much written and aired about LSD, a great deal of which has been seductive publicity, that misinformation is widespread, and the highly vocal nature of both protagonists and detractors has served to further becloud the facts.

For example, the authors have received literature which claims that all LSD use in the United States is a communist plot. Letters have also been received warning that God will strike dead anyone who does not recommend LSD to everyone.

Instant Happiness

The drug has been implicated in everything from police brutality to the Viet Nam situation. "Believers" insist that it offers instant happiness, instant creativity in art or music, and an instant shortcut to fame and acclaim for architects and those engaged in similar professions. This testimony vies with that of the total disclaimers who insist that LSD is more dangerous than heroin, that it should be outlawed completely including research, and that all

proponents such as Doctor Timothy Leary should be prevented from speaking or even from advertising in newspapers.

The fact that both laboratory investigators and clinicians have encountered unusual difficulties in attempting to understand this unpredictable drug has done little to lessen the confusion. A part of that problem has been the fact that the picture is constantly changing. At first, LSD-induced difficulties were commonly seen among chronic drug abusers, but now, and increasingly, youngsters are seen who experienced once with the drug, got over the acute effects and then, a number of months later, began to experience a recurrence of the original symptoms without ever having taken the drug again.

The single legitimate manufacturer of the drug, Sandoz Laboratories, discontinued production early in 1966, and turned over all existing supplies of the drug to the National Institute of Health. Thus, the black market has become the only source of almost all obtainable LSD and many investigators subsequently have left the field of LSD research with vital questions about the drug still unanswered.

Increased Cost

Where LSD was originally used mainly by intellectually curious adults, its use has now spread to the populations of colleges, high schools, crossing all socioeconomic barriers.

The cost of the drug has risen, of course, says Doctor Ungerleider and Doctor Fisher—it was originally a nywhere from 50 cents to \$2 for the usual "dose," but it is now between \$5 and \$10, maybe even higher in some areas.

However, in contraband exchanges, the entire question of quantity remains confused and obscure. Users claim to know exactly how many micrograms they are paying for, and the specific amounts they are ingesting, but several spot checks with chemical analysis revealed no instance in which the users' estimates were even close to the number of micrograms they actually received; according to the samples tested, they all over-estimated the amount of LSD in the material they purchased. However, all samples which were calimed to be LSD actually did contain the drug.

Lysergic acid, the basic compound from which LSD derives, is found in ergot, a fungus that attacks rye kernels. LSD was synthesized in 1938 by a Swiss scientist who was named Hofmann.

He discovered its hallucinogenic properties in 1943 by accidental ingestion of the drug. Compounds with a similar pharmacologic effect are found in morning glory seeds, in the Mexican "magic" mushroom which contains psilocybin as the active alkaloid, and in the peyote cactus buttons which contain mescaline. (Nothing psychedelic has been identified in banana skins, or "mellow yellow," and such claims are probably a giant hoax.) However, although these, too, are psychedelic agents, LSD is many times more powerful in its effects. The term psychedelic means mind - manifesting, and

this refers to the perceptual changes which occur during the LSD - induced state.

The mind becomes flooded with sensations. Each user has a highly personalized experience. Some people say they can "hear" colors, and "see" sounds. Others experience mystical or semireligious feelings under the influence of LSD. These perceptual changes have given rise to fads in "psychedelic" art, music and clothing, meaning those that are vivid in color, sound or design. Also, these perceptual changes are responsible for many of the claims that LSD produces creativity and enhances problem-solving ability, whether these qualities have been latent, dormant, or even non-existent.

Side effects of the drug is an area where a great deal of misinformation exists, commented the doctors. At UCLA, until September 1965, a patient was seen approximately every month with complications of incidence began to increase LSD ingestion. At that time, the incidence began to increase gradually from five to 20 patients seen each month, and for each patient actually seen, as many as three to five telephone calls were received at the UCLA facility from other users who were also in trouble after having taken LSD.

A study was made of the first 70 patients seen: they came in most commonly with frightening auditory and visual hallucinations, followed by



In the research into various aspects of LSD, subjects who have first been screened by psychiatric interview and psychologic testing have been observed after LSD administration for both subjective and objective effects of the drug in carefully controlled laboratory experiments. The subjective effects have to do with perceptual changes: the subjects report what they are experiencing and then view pictures, smell flowers and listen to music while investigators log their verbal response to these stimuli. Reactions to LSD ingestion which can be objectively observed are very few; most commonly, the pupils are dilated, resulting in an LSD - induced photophobia (which is why users have been noted to wear sunglasses at night). Transient increases in blood pressure, pulse rate and blood sugar have been reported along with transient chilliness and flushing of the skin. LSD - induced amnesia has recently been claimed as a defense against prosecution for robbery and murder, but this phenomenon has not been substantiated by clinical evidence and, in fact, may be said to occur rarely, if ever. In fact, Doctor Ungerleider mentions, heightened, if disoriented perception of events is the rule.

LSD is not physiologically addicting in that habitual users do not have withdrawal symptoms upon discontinuation, but it is physically addicting or habituating in that, once having experienced its effect, users want to repeat the LSD experience, often becoming so emotionally dependent that they will make great sacrifices to continue to take the drug.

Side Effects

Two particular characteristics of the acute side effects from LSD are particularly noteworthy. First of all, it is totally impossible to predict who will have a bad experience or when it will occur. Many people have had a bad experience the first time they used LSD, but others have had as many as 100 previous good experiences before encountering complications. Not psychologic testing, nor psychiatric interview, nor absence of symptoms, nor history of job stability can insure the user against having a bad experience. Some of the worst experiences have been reported in young physicians and others who were carefully screened before being given the drug, or who had previously been through psychoanalysis and were presumably normal. On the other hand, the authors have seen extremely disturbed marginal people who claimed to have taken huge amounts of LSD daily for periods of months, and yet they showed no discernible increase in overt symptomatology.

Second, it is important to point out that recurrences may occur with full intensity, and with equal unpredictability. All of the original side effects of a bad experience may recur for as long as 18 months after LSD ingestion, and these events may have their onset during stress or when there has been no apparent stress whatsoever.

Homicide and acts of violence are rare under the influence of LSD, but suicides are not, and accidental deaths are even more common. For example, an LSD user walked onto a freeway and stood in the path of the oncoming cars, saying "Halt!" fully believing that his LSD-induced power would stop the cars. He was killed.

Driving while under the influence of LSD is indeed a hazard, for the center divider may appear to weave, or two headlights from an oncoming car may seem to be a hundred.

A particularly striking chronic effect of LSD is the dramatic shift in the user's value system, and this may occur after taking the drug only a few times. Many users lose interest in working; they often leave their families and become quite withdrawn.

Another chronic difficulty caused by LSD is perceptual distortion, a subjective feeling of improvement concomitant with an objective loss of functioning.

A student claimed LSD helped him in school and that he had done beautifully on a recent examination — however, LSD had made him realize that nine of the 10 examination questions were stupid, so he answered only one (correctly) and, not surprisingly, failed the test.

Doctors Ungerleider and Fisher stress that it can be seen that LSD helps the user to deny the normal feelings of competitiveness, anger and sexuality while he is under the influence of the drug. This is the reason why the drug is particularly dangerous for, and yet has such a particular appeal to the adolescent.

The teenager is struggling with problems of identity and is in the process of learning to handle the upsurge in instincts of anger and sexuality. He wants to learn who he is, and what he wants to become. Normally, he rebels and experiments in order to find himself, but the changes evoked by LSD rob him during these formative years — and thus, perhaps permanently — of the chance to find a healthy solution to the problems appropriate to his age and so vital to his maturity. This is, so far, the single greatest tragedy to accrue to LSD.

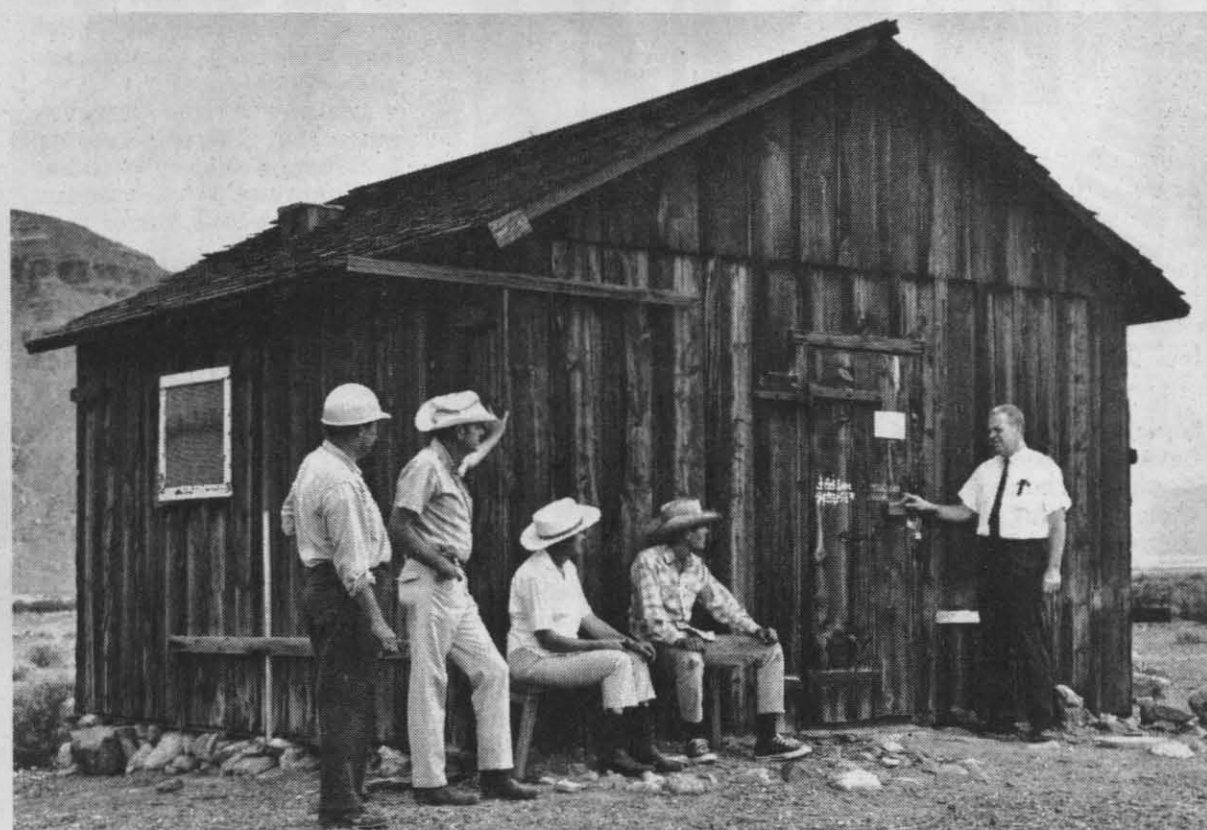
Today, many persons seem to be looking for instant happiness in a pill or capsule. LSD is the latest of many shortcuts to El Dorado, Nirvana, and the fountain of youth. The next generation may find LSD outmoded, and perhaps, as Doctor Sidney Cohen suggests, they will carry an electrical apparatus around with them to stimulate, ad lib, the brain's pleasure centers. Instead of "turn on, tune in and drop out" as Doctor Timothy Leary advised, perhaps their motto will be "plug in, turn on and buzz."

Ballarat-Wild West Ghost Town



SELDOM SEEN SLIM — The trailer park Seldom Seen Slim is shown occupying may not be the most modern in the world, but to him, it's home and the way he likes it.

Ballarat wouldn't be the same without prospectors like Seldom Seen Slim who has lived the past of the area and probably has kept secrets to himself.



BALLARAT JAIL-MORGUE — One of the best preserved wooden structures in Ballarat is this building constructed in 1900. Originally, it had an additional roof to protect

it from the searing desert sun. The bars were of heavy timber constructed in a cross-hatch manner. Neil Cummins (r), owner of Ballarat, tells stories of Ballarat.



PORTER BROTHERS STORE — View of the new Ballarat administration building framed through a window of the Porter Bros. General Store, an ironical of the old and the new.

Old Rip-Roaring Mining Town Provides Sightseers With Look at Historical Past

BY MILT SHEELY

This week's excursion takes us to a fascinating place not too far away from China Lake. The Ghost Town of Ballarat, a historical mining town from 1897 to 1917, is located 27 miles northeast of Trona in Panamint Valley and consists of some 80-odd acres of land.

The gold discovery in Pleasant Canyon on the west side of the Panamint range in the early 1890's was actually responsible for the birth of Ballarat. Actually, Post Office Spring, about one-half mile south, was the original miner's community, which later moved to the present-day site of Ballarat.

Neil Cummins purchased the 80 acres of Ballarat several years ago. His main interest is to preserve what now remains of the once colorful town and to restore some of the more important buildings such as the one and only school house, a historic structure by itself when one considers it was manned by Mrs. Mary Bigelow and her eight charges for only one year. In comparison to today's teacher salaries, Mrs. Bigelow received \$500 for the one year of teaching, from 1899 to 1900. Cummins also is hopeful that the historic landmark of Ballarat will not deteriorate into dust and blow away into the unknown as some writers have predicted.

Driving from Trona you approach Ballarat over the Slate Range Crossing, winding down a scenic two-lane highway to the floor of the Panamint Valley. A Death Valley '49'ers commemorative monument is located at the intersection of the main highway and the turnoff leading the visitor eastward into Ballarat.

Just above Ballarat looms Telescope Peak. All up and down the Panamint Valley the canyons once teemed with vigorous mining activity and included diggings for such precious mineral ore as gold, silver and lead.

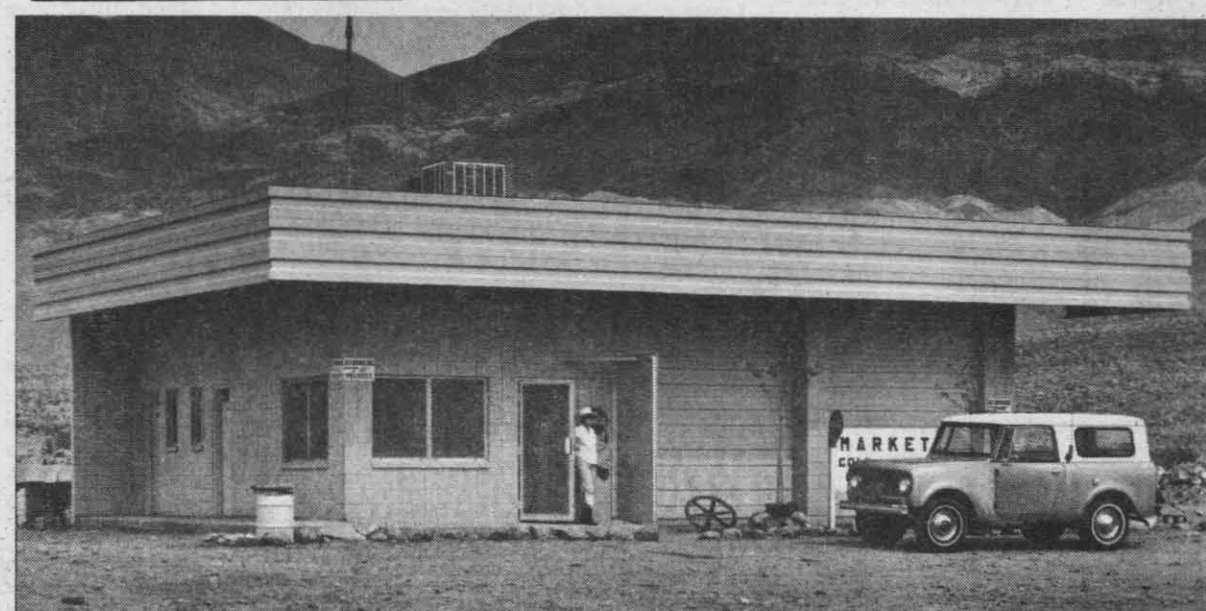
Ballarat became the central point for miner's supplies, arrival and shipment of freight, communications, food and entertainment. Most miners knew and had visited Ballarat and several hundred made their permanent or temporary homes in the town site, many because of the access to the only assay office in the area.

"Pop" Lofinck, Desert Philosopher and contributor to the Rocketeer, probably is one of the few men who have personal knowledge about one of the most colorful characters in and around Ballarat. In "Pops'" book, "Mojave Desert Ramblings," he relates his acquaintance with Charles "Seldom Seen Slim" Ferge. "He is quite a character — a real desert rat and the last remaining old-time resident of Ballarat," says Pop. "Some say 'Slim' came there in 1910, others say 1917 or even 1905, and 'Slim' just isn't saying. Ballarat has been his residence or rather headquarters all these years when he wasn't out prospecting or mining or doing assaying work." Pop asked "Slim," "Do you ever get lonesome living out here alone?" "No," he said, "I talk to myself." Some confirmed desert rats get that way, according to Pop.

"Seldom Seen Slim" is photogenic, as our photo shows, and he doesn't mind having his picture taken, in fact he enjoys it. You may have a chance to have your picture taken with a genuine desert rat, Pop goes on to say, and besides, it would make a good picture for your photo album.

Neil Cummins is making modern-day changes in Ballarat, even though he is not attempting to change the character of the town itself. The new administration building, which is in sharp contrast to the ghost town atmosphere, houses modern conveniences for the mobile home owners gradually realizing Ballarat has possibilities for a future, unconfused orderly way of life.

A brief brochure prepared by Cummins notes that Ballarat offers a variety of activities. Rockhounds, artists, photographers and hikers will all find items of interest to their



ADMINISTRATION BUILDING — No one ever expected to see this modern building and its facilities spring up in the middle of a ghost town. Containing a grocery store,

laundry, rest rooms and showers, the building serves patrons of the newly established trailer and camper area and several mobile homes situated in the historical spot.

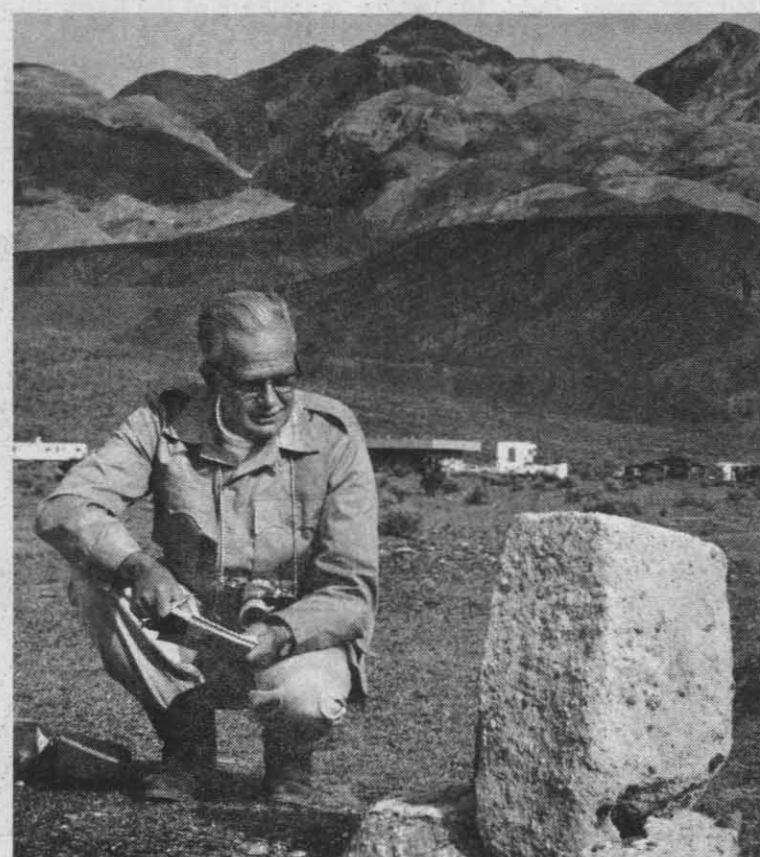


SENTINELS OF THE PAST — Part of the crumbling adobe walls of Ballarat is one of two general merchandise stores on the main street located in the center of town. Through the portals of Ballarat passed the most

famous names of the old west mining industry. Credit for this material is given to George Pipkin and Paul Hubbard's book titled: "Ballarat-Facts and Folklore," covering the period 1897 to 1917.



SELDOM SEEN SLIM — THE PROSPECTOR — This colorful, longtime resident of Ballarat was christened Charles Ferge. The last of the old prospectors of the area, Slim is rather reluctant to leave his home.

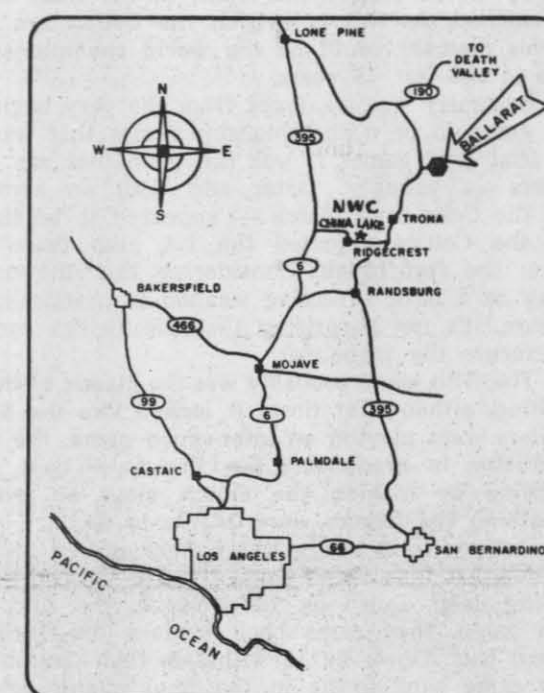


RESEARCHING — Fred Richards, Rocketeer editor, visits Boot Hill and the grave of Joseph H. Gorsline, a miner in Ballarat since 1898 and later Justice of the Peace.

personal tastes. Close-by and to the east is Death Valley National Monument; to the north-west is Owens Valley and the eastern slope of the lofty Sierra Nevada.

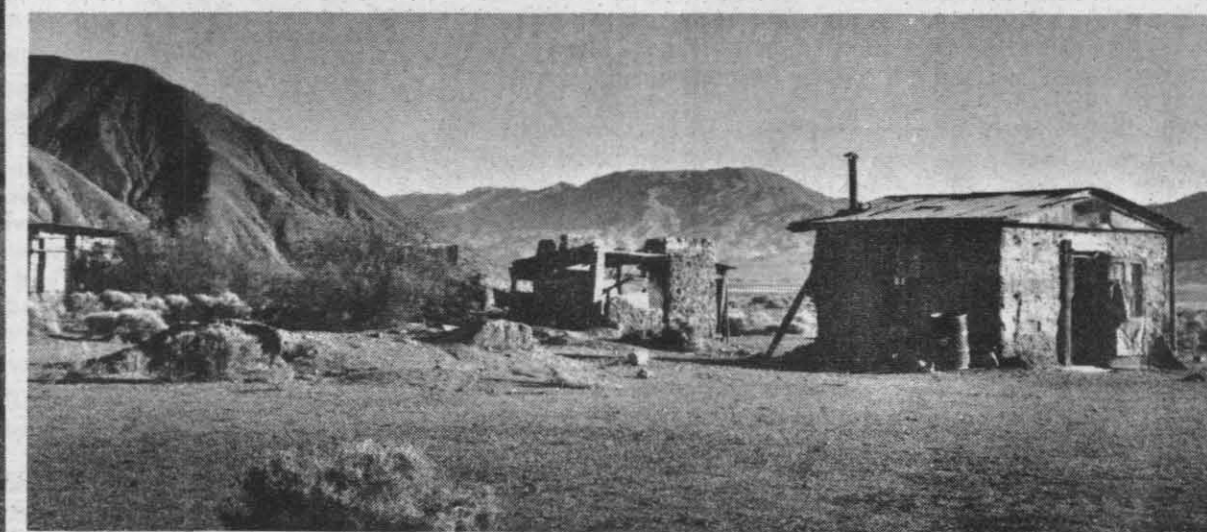
A farewell tribute is appropriately paid to Ballarat as we now take our leave. Taken from William Caruthers book, "Loafing Along Death Valley Trails," it is said, "In the late afternoon when the shadows of the Argus Range have crept across the Valley, a few old timers come out of leaning adobes and stand bareheaded to look about. The afterglow of a sun is upon the peaks and the afterglow of dreams in their hearts. They people the empty streets with men long dead, some in the unmarked graves in the little cemetery on the flat just beyond the town. Some on the trails, God only knows where. These dead they see pass in and out of the old saloons. These dead they hear again. Glasses tinkle, slippered feet dance again.

"Tomorrow? Their pale eyes lift to the canyons and though dimmed a little, they see one hundred billion dollars."



BALLARAT SCHOOL — First and only school teacher in the one-room school building was Mrs. Mary Bigelow. She taught

eight pupils for one-year (1899-1900.) H. C. Hampton, Inyo County school superintendent, persuaded her to take the job.



MINERS CABIN — A score of dilapidated adobe miner's cabins and shanties dot the Ballarat landscape. Some have weathered the elements well. George Pipkin was asked

where Frank (Shorty) Harris had lived. He said Shorty had lived all over the place. He never stayed very long in Ballarat, but rented numerous cabins here.