

Photos by PHAN Greg Hogan



FINAL FLING OF SUMMER — Recreation Services' first Solar Park Fun Festival was such a success that plans call for making it an annual summer's-end event. Sixty-five children participated in the fun and games that lasted for several hours on the afternoon of Aug. 31. In the top photo at left, a grimace is all that can be mustered for the camera as a wet sponge hits its mark. The fishing booth was a corner for concentration as children attempted to upright pop bottles. Doing their best to break the Guinness world record for keeping a Frisbee in the air, these three girls practice their tossing techniques. The watermelon-eating contest attracted a large crowd of participants — approximately 40 youngsters dove face-first into watermelon slices. Body tattoos were a big attraction as children applied their talents to decorating themselves and each other with water-soluble paints.

Desert Empire Fair parade entry forms due Thurs.

Less than a week remains for those interested in doing so to submit completed entry forms in order to participate in the 1983 Desert Empire Fair parade. The procession, which is an annual highlight of the local celebration, is scheduled on Saturday, Sept. 24, and will follow a route northbound on China Lake Boulevard from French Street to the triangle area in the vicinity of Inyokern Road.

The grand marshal of this, the 33rd annual Desert Empire Fair parade, will be Capt. Melvin Etheridge, USN (Ret.), who served as Commander of the Naval Weapons Center during the period of 1967-69. Capt. Etheridge now resides in Simsbury, Conn.

Prospective parade participants can obtain entry forms in Ridgecrest at the city hall, Chamber of Commerce office, the library, and at the fairgrounds. The deadline for their return to the DEF office is next Thursday, Sept. 15.

Late entrants in the parade will be ineligible for awards, and will be placed in the line-up at the discretion of the parade committee.

Nominations of individuals who will be honored as marshals of the various divisions of the parade also are being sought at this time. Officials of the Desert Empire Fair would like to pay tribute to local area residents who have done something special for their community.

Those wishing to submit the name of a friend or neighbor to be honored as a parade marshal can do so by calling the Desert Empire Fair office, phone 375-8000, on

weekdays from 8 a.m. to noon and 1 to 5 p.m. Once again, Roberta Leighton is serving as chairman of the parade committee. She is looking for volunteers to assist with all aspects of the handling of this event — from advance planning to being responsible for last-minute details on the day of the procession. Parade helpers are invited to attend

meetings of the committee in charge of this event that are scheduled on Tuesday evenings at 7:30 in Joshua Hall at the fairgrounds from now until the opening of the fair on Wednesday, Sept. 21. Numerous awards and prizes will be distributed to the entries judged to be the most outstanding in their particular division of the parade competition.

Dr. Pierre St.-Amand, the featured guest speaker, will discuss "Changing Weather on Planet Earth and Water Management" during his illustrated lecture. The public is invited to attend.

Also scheduled is an illustrated talk on the "History of the Greenwich (England) Observatory" by Ron Hise, CLAS president, who recently visited the site.

Fundamentally important for worldwide navigation and time zone designations, the Greenwich Observatory is the location from which both the earth's Prime Meridian and Universal Time are measured.

Members of the Chief Petty Officers' Club and their guests are invited to dine out tonight from 6 to 9 o'clock, and remain for an evening of dancing. Prime rib or Icelandic cod are the special entrees on the CPO Club menu. Dinner will be followed by dancing and listening to the music of "TNT," a local country and western band that will be on stage beginning at 8:30 p.m.

"Raven," a rock music-style band from the Los Angeles area, will play tonight from 9 o'clock to 1:30 a.m. at the Enlisted Mess. Dining room special at the EM will be large shrimp tonight, and T-bone steak tomorrow evening. Dinner will be served from 6 to 9 o'clock both nights.



READY FOR NEW YEAR — The Women's Auxiliary of the Commissioned Officers' Mess will begin another year of social activities and special events at a membership coffee on Tuesday, from 9:30 to 11:30 a.m. Because the COM is being renovated and redecorated, the coffee will be held in the Enlisted Mess. In keeping with the "Creative Quests" theme of this kick-off program, Linda Smith, WACOM membership chairperson, finishes a knitting project that will be displayed Tuesday, along with various types of handcraft and sewing work done by WACOM members. The membership coffee is open to current and prospective members of WACOM and their guests.

Pops concert slated by Desert Community Orchestra Saturday

The annual Pops Concert at 7 o'clock tomorrow evening on the lawn of the Commissioned Officer's Mess will begin the 1983-84 concert season of the Desert Community Orchestra.

Stan Ricker will conduct the orchestra's playing of Strauss's "Emperor Waltzes," Alford's "Colonel Bogey March," Handel's overture to "Samson," Fucik's "Entry of the Gladiators," Suppe's "Light Cavalry Overture," and the "Battle Hymn of the Republic."

No admission will be charged for this concert, since U.S. recording companies support, in whole or in part, the instrumental music through the Music Performance Trust Fund, as arranged by the American Federation of Musicians, Local 263.

Season tickets for the remaining concerts of the Desert Community Orchestra are now available. For further information about these, telephone Lou Ava Seybold at 375-7455 or Lorraine McClung at 375-7987.

Stargazers to hear talk about changing weather Mon. night

The next monthly meeting of the China Lake Astronomical Society (CLAS), will be held in the Sylvia Winslow Exhibit Gallery of the Maturango Museum on Monday, Sept. 12, beginning at 7:30 p.m.

Dr. Pierre St.-Amand, the featured guest speaker, will discuss "Changing Weather on Planet Earth and Water Management" during his illustrated lecture. The public is invited to attend.

Also scheduled is an illustrated talk on the "History of the Greenwich (England) Observatory" by Ron Hise, CLAS president, who recently visited the site.

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MOVIES

(G) ALL AGES ADMITTED
General Audiences
(PG) ALL AGES ADMITTED
Parental Guidance Suggested
(R) RESTRICTED
Under 17 requires accompanying
Parent or Adult Guardian

Regular starting time 7:00 p.m.

FRIDAY	"1001 RABBIT TALES" Voices by Mel Blanc and Sheb Kenken (Animation, rated G, 74 min.)	SEPTEMBER 9
SATURDAY	"VIGILANTE" Starring Robert Forester and Fred Williamson (Drama, rated R, 90 min.)	SEPTEMBER 10
SUNDAY	"TRENCHCOAT" Starring Margot Kidder and Robert Hayes (Spy Spoof, rated PG, 92 min.)	SEPTEMBER 11
MONDAY	"TEN TO MIDNIGHT" Starring Charles Bronson and Lisa Eilbacher (Drama, rated R, 102 min.)	SEPTEMBER 12
WEDNESDAY	"TABLE FOR FIVE" Starring Jon Voight and Millie Perkins (Drama, rated PG, 122 min.)	SEPTEMBER 14

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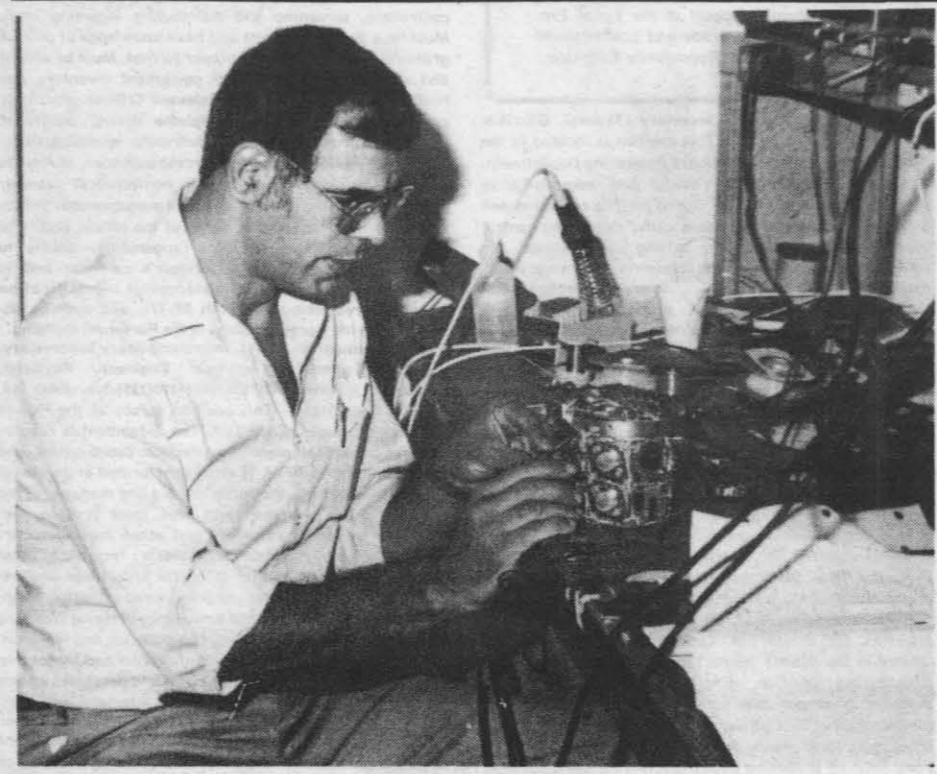
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September 9, 1983
Vol. XXXVIII, No. 36
NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA



TOPNOTCH EFFORT RECOGNIZED — At his work bench, George Banura, latest recipient of the NWC Technical Director's Award, checks operation of electronic circuits for the power supply of the guidance control section of the Sidarm missile. B. W. Hays referred to Banura as a "classic design engineer" in remarks that preceded presentation of the Tech Director Award.

— Photo by PHAN Rebecca Gill

Study results announced L.A. basin smog degrades air quality in desert

A \$250,000 study funded by the California Air Resources Board shows that smog from the Los Angeles basin dramatically degrades air quality in the desert to the east and north of the basin, and that smog from the San Joaquin Valley affects visibility both over Edwards Air Force Base ranges and the Naval Weapons Center's test ranges.

The results of this transport study come as no surprise to the Navy, Air Force, Army and National Aviation and Space Administration (NASA) officials whose test range operations depend on clear air and visibility in excess of 30 miles. They've watched the clear air needed for essential weapon and aircraft tests deteriorate, have presumed the degradation to be due to smog, and now have scientific data to support those beliefs.

Dust also degrades visibility, but dust particles are larger and therefore settle out from the skies more rapidly than the smaller aerosols resulting from industrial, mining, and utility operations.

Since the visibility monitoring program of the Center (and of the other establishments in restricted airspace R-2508) must be structured on the basis of knowledge of actual conditions, a 15-month study will begin shortly. The study will determine visual requirements for testing, causes of air quality degradation by determining what material is in the air, and attribute these materials to their sources.

Primary monitoring stations (receptors) will be established at locations where operations are carried out requiring visibility. These will be located at the China Lake test ranges, the Randsburg Wash test range, Edwards Air Force Base, and the Army's Ft. Irwin.

Secondary stations designed to determine sources of pollution will be located in the various mountain passes including Cajon Pass, Soledad, Tehachapi, and near Big Pine.

The stations will be managed by the Lockheed Company under a contract issued by the Environmental Monitoring and Simulation Laboratory, and Environmental Protection Agency facility at Las Vegas,

Banura gets Tech Director Award for outstanding job as electronics design eng.

Special recognition in the form of the NWC Technical Director Award came this week to George Banura, a consultant in the System Electronics Branch of the Engineering Department's Systems Engineering Division.

B. W. Hays, NWC Technical Director, presented the award to Banura during Tuesday morning's meeting of department heads and senior Center officials who attended the weekly Commander's meeting in the Management Center of Michelson Laboratory.

Banura received an engraved paper-weight, a letter of commendation, and a stipend that accompanies this special form of a Superior Achievement Award.

The latest recipient of the Technical Director's Award was not singled out for recognition for a solitary accomplishment of singular importance. Instead he was cited for "the successful completion of many tasks which include: analyzing and documenting the design details of the AIM-9M Sidewinder guidance control section

electronics system, designing a highly effective hybrid microcircuit for the Sidewinder closed cycle cooler program, and designing internal guidance control section power supplies for the Sidarm as well as other missile programs."

The letter of commendation signed by Hays also noted that Banura's contributions "are of a fundamental rather than a conspicuous nature and provide a thoroughly sound basis for further design, development, and production."

In addition, Banura was hailed for the excellence of his work, which was labeled "of major significance to the successful completion of the mission of the Naval Weapons Center."

Banura's nomination for the NWC Technical Director Award was made by J. M. Johnson, Jr., his division head, and endorsed by D. J. Russell, head of the Engineering Department.

Russell wrote: "George is not the man who stands in the limelight of a technical program and gets the lion's share of the credit, such as the technical manager. Instead, his contributions are more fundamental.

"He establishes designs that are thorough and sound upon which those programs are based. He is an outstanding circuit designer; his designs are well thought out and analyzed before they get into hardware. He is one of too few engineers using qualified components at the outset, rather

determine how much these are affected will be carried out.

The flight test facilities at China Lake and Edwards will identify the tests that must have optical data test objectives to meet. They will determine the minimum visual range necessary to obtain adequate

(Continued on Page 3)

Cracks, sinkholes expand in recent heavy rains

The second crack system now consists of cracks and sink holes, some of which are still filled with water. These sink holes are large, and several appear to be undercut with a weak arch of clay covering the surface. Walking around these could be dangerous if the clay top collapses.

Both Dr. St.-Amand and Dr. Carl Austin,

(Continued on Page 7)

Cracks, sinkholes expand in recent heavy rains

Motorists driving to the Center's Randsburg Wash/Mojave B range complex after the recent heavy rains found an addition to the road about 0.8 mile east of the Spangler Railroad Crossing — a metal plate laid on the road surface to ensure that no vehicle would break through the asphalt if the road should be undercut.

On either side of the road long cracks, sinkholes, and gullies give dramatic evidence of the amount of water that poured in during the rains.

While an inch-wide crack appears in the asphalt, determining just how much the road might have been undercut by the action of the water will have to wait until the soil has dried out sufficiently for close examination.

Even though the system of cracks and sinkholes at this point and at another location about 500 yards further east were dramatically widened by the rains, both systems were observed more than a decade ago by John DiPol, who recently retired as head of the Center's Range Department.

DiPol spotted the cracks from a helicopter as he was being flown to Echo Range. Subsequently, he and Dr. Pierre St.-Amand, then head of the Earth and Planetary Sciences Division of the Research Department, studied the cracks further.

At that time, both systems were only visible on the north side of the road. The one system was about 1,000 feet in length, up to 5 feet wide, and more than 30 feet deep, with the other system of cracks being somewhat smaller.

Both cracks have propagated since. The one that crosses the road extends nearly 800 feet south as well as having lengthened to the north.



GRAND CANYON IN THE MAKING — Water and mud at the bottom of this crack north of the Randsburg Wash Road hide the depth of the fissure in the earth.



Recreation roundup

China Lakers entered in MDISL racquetball tourney on weekend

Racquetball players from the Naval Weapons Center will compete this weekend in Mojave Desert Interservice League (MDISL) competition for both men and women.

B. J. Holden is the lone local entry in the women's event, which will be held at Norton Air Force Base in San Bernardino.

At the same time, MDISL men's racquetball competition is slated at March Air Force Base in Riverside.

China Lakers entered in the latter event are Mike Fedak and Jim French, both active duty military personnel, in the open division; and Les Saxton, in the senior division (for men 35 years of age and over).

In addition, Saxton and Fedak will be entered as a team in the men's doubles at March AFB.

SAILORS TOSS HORSESHOES

Two Navy men from China Lake represented the Naval Weapons Center in the Southern Pacific Regional Horseshoe Tournament for active duty military personnel that was held at the North Island Naval Air Station in San Diego.

The China Lakers entered in this event were RMCS Stuart Caldwell and RM1 Roger Hiser, who vied in both the singles and doubles competition.

The local duo placed third in the doubles event, while Chief Caldwell finished in fifth place and RM1 Heiser was ninth in the singles competition.

DEADLINE EXTENDED

The deadline to register for the fall season of Youth Soccer League competition has been extended to next Friday, Sept. 16.

Signups are being handled at the Community Center on weekdays between the hours of 8 a.m. and 4 p.m.

Burros to begin '83 football season at Barstow

As sports fans are already aware, football season has rolled around once again. Not only are the college and professional football teams around the country mixing it up, but locally the Burroughs High School varsity and sophomore squads will begin a 10-game schedule tonight in Barstow.

The soph gridders representing BHS will take on their counterparts from Barstow starting at 5 p.m., and the varsity clash between the Burros and Aztecs will get underway at 7:30.

The Burros varsity squad, coached by Verl Lillywhite, an ex-USC Trojan who also played professional football for the San Francisco 49ers, has a score to settle with the Aztecs, who ruined the Ridgecrest team's 1982 home season opener by hanging a 37-0 defeat on the Burros.

In that game, the visitors from Barstow locked up the contest by scoring three first-quarter touchdowns (two on fumble recoveries deep in Burroughs territory), and the outmanned Burros were thwarted in their attempts to play "catch-up" for the remainder of the game.

Enough of a nucleus of returning players from the BHS 1982 team is back to give the Ridgecrest team any bit of added incentive that may be needed to pay the Aztecs back in kind for the way they manhandled the Ridgecrest team before a home crowd a year ago.

The vets on the varsity squad, whose 1982 record was three wins and six losses, also can look back with some satisfaction on a season-ending surprise win over the Saugus Centurions last November —



CHUKAR HUNT PERMITS DRAWN — Capt. K. A. Dickerson, NWC Commander, was on hand Tuesday afternoon at the Enlisted Mess to draw the first postcard application for this season's chukar hunts in the northern range area of the Center. John Jaegers, of Sylmar, Calif., was the hunt permit applicant whose postcard (which also listed the names of three other hunters) was drawn. Approximately 1,550 postcard applications were mailed in for the hunts, and the first 750 drawn were for the weekend of Oct. 22-23 (unless the requester specified the second weekend of the hunt on Oct. 29 and 30). The drawing for the chukar hunt permit applications was arranged by the NWC Public Affairs Office, with Tom McGill, a natural resources specialist in the Environmental Branch of the Public Works Department, and L.Cdr. M. A. Kelly, Staff Judge Advocate, present as observers. Since each postcard application for the chukar hunt contained an average of three names, the number of applicants for the hunt totalled around 5,425.

Get in shape now for mini-triathlon event sponsored by Rec. Services Dept. Oct. 15

Athletes — boys and girls, men and women — are encouraged to prepare for participation in a mini-triathlon, sponsored by the Recreation Services Department, that will be held on Saturday, Oct. 15.

Three events make up the mini-triathlon. They are a half-mile swim, a 25-mile bicycle ride, and a 6.2 mile run. Those taking part can test their endurance in all three events, or form teams in which each member will compete in just one of the three events.

Entry forms for the mini-triathlon are available at the Center gym. The fee is \$8 per person for those who bring or mail their completed entry to the gym office by Friday, Sept. 30. After that date, there is a late entry fee of \$11 each.

The mini-triathlon will begin at 8 a.m. with the half-mile swim in the Center's indoor pool on Oct. 15, and the two outdoor events — bicycle and foot racing will follow.

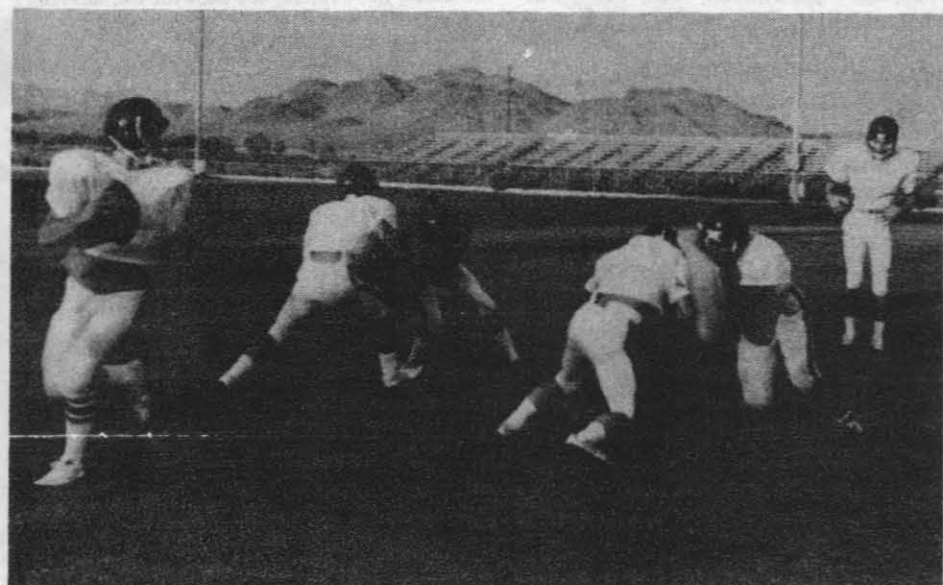
All entrants will receive special T-shirts for their efforts, and there will be awards for first through third place individual finishers in various age divisions of the competition, as well as first place prizes for the winning teams.

Individuals or teams will be placed in the Junior Division (17 years of age and under), Senior Division (18 to 35 years of age), and Veterans Division (35 years of age and over). Men and women, boys and girls will compete separately for awards in the mini-triathlon.

trusting that it will be the springboard for a more successful effort this year.

Among the architects of that 1982 win over Saugus were Daniel Means, quarterback, who has returned for another year at the helm of the BHS varsity gridders; and Randy Agnon, all league tailback, who runs with both speed and power.

Ready to spell Means at the quarterback spot this season, is Kevin Blecha, a returning letterman who has filled not only as a reserve quarterback, but also as a defensive



PASS PROTECTION STRESSED — Preparing for tonight's varsity football season opener at Barstow, Kevin Blecha (at left) and Daniel Means, starting quarterback for the BHS varsity gridders in 1982, took turns throwing the ball to the ends and backs. Purpose of the drill also was to give those blocking for a passer a chance to sharpen up their skill in this vital aspect of the game. — Photo by PH1 Benita Tetreault

Men's Golf Club reunion tournament won by Mike Pope

Out of a field of 132 entries, Mike Pope emerged as the overall champion of last weekend's third annual Invitational Reunion Golf Tournament staged by the China Lake Men's Golf Club.

Pope finished this 4-man scramble event with pro-rated handicap total of 118.3. He received a trophy and a cash prize of \$45 for his efforts in winning the championship flight.

Winners in the other flights were Ted Zissos, Flight A; Bill Herron, Flight B; Tom Short, Flight C; and John Dragovich, Flight D. Each of them garnered a trophy, as well as a cash prize in the amount of \$35.

There was a team prize of \$40 that went to the foursome with the lowest score on each day. On Saturday this award was split by Zissos, Herron, Dragovich and Tom Short, while on Sunday, the low team score was carded by Pope, Ed Nelson, Tony Padilla and Wayne Jackson.

Socializing last Friday night drew a crowd of more than 100 golfers and their guests to the Enlisted Mess for a pre-tourney get-together. Saturday night's dinner at the Chief Petty Officers' Club was attended by a throng estimated at 230 persons who also were back on Sunday afternoon at the CPO Club for a buffet luncheon during which awards were presented.

The presentation of trophies and cash prizes was handled by Ed Donohue and Dick Bauers, two members of the tournament committee.

Instruction slated in officiating at youth soccer games

A referees' clinic for persons interested in officiating at Youth Soccer League games during the coming season will be held tomorrow.

The clinic will open with a physical fitness test at 8 a.m. at Kelly Field on the Murray Junior High School campus. As a check of their endurance, participants will run up to 1½ miles (depending upon their age), and also will be tested for speed and maneuverability on their feet.

At 9 a.m., the clinic will move to Classroom 36 at Murray Junior High, where Ted Taylor, director of instruction for the Southern California Division of the United States Soccer Federation, will teach a comprehensive course on all aspects of soccer rules, regulations, and techniques of play.

This class, which will be in session from 9 a.m. to 4 p.m. tomorrow, except for an hour off for lunch, will be concluded by a 30-minute written examination.

Prospective Youth Soccer League officials, team coaches, and interested parents are invited to attend the referees' clinic, for which there will be charge ranging from \$5 to \$10 per person depending upon the number of individuals who attend.

Arrangements to take part in the clinic can be made by calling Werner Hueber at NWC ext. 5207 or, after working hours, phone 375-2165.

Signups continued for youth bowling team

Signups for Young American Bowling Alliance (YABA) teams began this week at Hall Memorial Lanes, and will continue until the start of the season on Saturday, Sept. 17.

While in the past all YABA teams have been active only on Saturdays, an additional league is being considered for Fridays from 3 to 5 p.m. to accommodate young people who are involved with other sports on Saturdays.

Anyone interested in taking part in such a Friday league should contact the bowling alley by calling NWC ext. 3471.

Ordinarily, the age limits for YABA members are 7 years through the age of 18, provided that anyone 18 or over is currently enrolled in school. Exceptions will be made for youngsters under age of 7 if they can demonstrate that they are able to bowl.

The Skipper sez



All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. K. A. Dickerson. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.

QUESTION

Employee — Like most people who live in the old duplex housing, I have no place to store a lawn mower if I owned one. So, I feel dependent on self help. That is a problem. The time that self help is open requires me to pick up and return a lawn mower during working hours on weekdays. That hardly seems a viable option on a weekly basis. That leaves Saturday, if it is not a holiday weekend; but it is very difficult to get a mower on a Saturday and I do not consider the hours of 10 a.m. to 1 p.m. acceptable yard work hours during the hot summer months.

I thought perhaps using a push mower was a solution because those seem to be readily available; so I got one recently. I found out why they are so available. They are so dull they probably can't cut anything tougher than cooked spaghetti. I was really disappointed that self help, of which NWC management is so proud, would hand out equipment in such poor condition.

It seems my choice is to take time off work weekly to obtain a mower and mow my lawn, or park at self help on Saturday as long as it takes to get a mower and mow during the heat of the day. Well, I am not trying to shirk my responsibility to cut my grass, and the job did get done this weekend. I did it with my weedeater, and that is how I will continue to do it until the mower situation changes at self help.

I do not think the situation is acceptable and I do not believe you would think so either if you had to deal with it. You do have your own lawn mower, don't you Skipper?

ANSWER

I agree with you. The lawn mower should be available to you during your off hours. In fact the whole idea of self-help program is to make all these items available to you during your off time.

I've run into the same problem, i.e., when I do odd jobs, the self help building is closed. I have instructed my staff to look into ways we could possibly adjust the opening hours to accommodate the customer.

QUESTION

Civilian employee — I was wondering why there is the discrepancy between swimming pool fee charges. The indoor pool charges \$1.50 for adults and 50 cents for children. Also, a sponsor is required. I recently took my three children to the Chief Petty Officers' Club pool and was charged \$1 per person. According to Recreational Services, charges at all pools are the same. Thank you.

ANSWER

The fees at each pool are different because each pool has a different operating cost, and inflation increases this cost each year. One big factor that influences this cost is that of lifeguards, the more guards, the more the cost.

Club pools are for members of each individual Club. Civilians must have have and AA membership to use the indoor pool and a guest must have a sponsor. John Shoaf, Head, Recreation Services Department, NWC ext. 3387, would be happy to further discuss how fees and charges are established, if you so desire.

'83 Hispanics in Technology Award goes to NWC employee

Alvaro G. Lopez, head of the Catapult-Launched Fuel Air Explosive program in the Ordnance Systems Department, was one of only 27 engineers and scientists nominated to receive the 1983 Hispanics in Technology Award presented by the Society of Hispanic Professional Engineers.

Lopez was nominated by NWC for his outstanding work as both a mechanical engineer and as a technical manager since he first came to the Center in 1966 as a Junior Professional employee.

The award encourages the use of Hispanics as role models to influence young Hispanic students to enter technical fields of endeavor. It was won this year by Dr. Mario Molina of the Jet Propulsion Laboratory for his pioneering studies in ozone depletion of the atmosphere.

As well as encouraging Hispanic students to consider the scientific and engineering fields, the Society of Hispanic Professional Engineers assists companies and organizations in recruiting professional engineers or engineering students to meet an organization's technical needs.

Lopez is a graduate of California State University Long Beach; he then continued his mechanical engineering education through the University of California at Los Angeles program held at China Lake and in

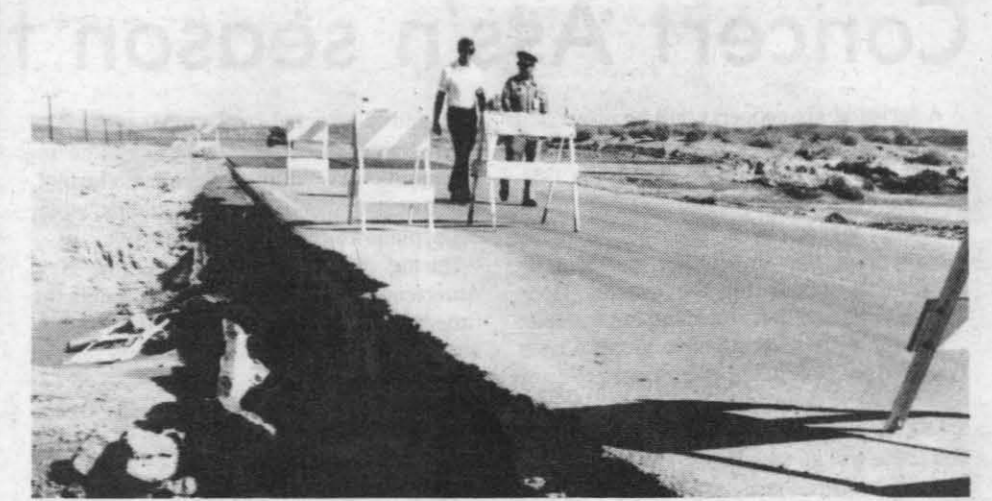
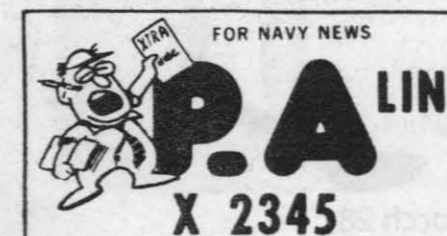
1972 received a master's degree in mechanical engineering after he attended the University of Southern California on a Navy fellowship.

He is also one of the early graduates of the Center's Technical Management Certificate Program, and says that he is finding that increasingly the classes in which he enrolls are more management oriented than technologically oriented.

Although he and his wife, Loralee, are heavily involved in the sports activities in which their sons, Andy, 7, and Ryan 5, are enrolled, Lopez also works on restoring antique cars, raising pecans, and bowling with a Thursday night league.



A. G. Lopez



INSPECTING THE SITUATION — Rich Printy, Associate Department Head for Production in the Public Works Department, and Capt. H. H. Harrell, Public Works Officer, get a view of the damage caused to the main Randsburg Wash Road. A steel plate on the roadbed behind the far barricade covers a crack that runs completely across the paving. — Photo by PHAN Greg Hogan

Air quality degraded . . .

(Continued from Page 1)

optical data for specific tests, and determine the cost due to lost or poor optical data during this 15-month study period. While accomplishing this, they will measure visual range between cameras and targets using special techniques and draw a statistical relationship with ground-based monitoring status.

On the basis of the information gathered

Sinkholes grow . . .

(Continued from Page 1)

numerous other desert playas throughout California, Nevada, Arizona and New Mexico.

The cracks are surface evidence of subsurface clays drying out when the water table drops, either through natural causes or by pumping for irrigation.

Many clays can contain up to 60 percent water, although still appearing dry. When the moisture evaporates or drops, the clay dries and sink holes are aggravated when heavy rains cause sheets of water to pour into the depressions.

Dr. St-Amant says that there really isn't a great deal that can be done about such cracks except to wait until the normal forces of wind and weather wear down the edges and cause them to blend into the desert landscape.

The road, however, will be repaired to ensure that no driver will drop through the surface unexpectedly.

during the 15-month period, the criteria for managing visibility for essential operations at the high desert bases can be determined.

In addition to the 15-month long study, the California Desert Air Working Group is also funding Rockwell International to conduct a study to compile and analyze all air quality data from the California desert between the Mexican border to the south and Alpine County to the north.

Funding the study are the Department of Defense, the Bureau of Land Management, and San Bernardino County, at \$10,000 each; the Los Angeles Department of Water and Power, Los Angeles Department of Airports, Southern California Edison Co., and Southern California Gas Co., \$5,000 each; and the Western Oil and Gas Association, \$12,500.

All contributors will have equal access to the data gathered, which will be computerized for most effective use. The data will also be subjected to statistical and interpretative analysis to determine what data gaps exist and whether the correct parameters are being measured.

This study will be completed by early next summer.

By using the information gathered in both studies, policy-making alternatives can then be developed regarding essential air visibility requirements and how they can be attained. The ultimate goal will be to protect the optical data gathering capability in the region in the long-term future.

Slight pay cut coming up for many gov't employees

As a result of the Omnibus Budget Reconciliation Act of 1982 (PL 97-253), there will be a slight decrease in the pay of all annual rate government employees paid on a bi-weekly basis during fiscal years 1984 and 1985. Wage grade employees will not be affected by this change.

The law requires a change in the computation of hourly rates of basic pay. Currently, the hourly rate of pay is determined by dividing the annual rate of pay by 2,080 hours.

Beginning in FY 84 the hourly divisor used will be 2,087 hours. The resultant decrease will be equivalent to 7 hours of pay spread over fiscal year 1984 and 7 hours of pay spread over fiscal year 1985.

This change will not affect actual hours worked, computations for determining Civil Service retirement eligibility, or the amount of life insurance coverage.

A total of 1.4 million federal workers, including more than 320,000 Navy civilian employees, will be affected by the changes under the Omnibus Reconciliation Budget Reconciliation Act of 1982.

According to the General Accounting Office (GAO), the government expects to save more than \$271 million in each of FY's 84 and 85.

Civilian pay is decreasing because the Act, signed into law last September, requires that hourly pay rates be determined by dividing an individual's gross annual salary by 2,087 work hours per year, rather than the 2,080 hours used since 1945.

The difference amounts to thirty-three one-hundredths of one percent (0.33) and allows the government to pay employees more accurately — according to the actual number of hours they work. The old rate allowed people to be paid for one or two days per year they didn't work.

The number of workless paydays varied from year to year during a 28-year cycle, according to a GAO report. This gave workers an extra paycheck in the 11th year.

Savings to the government in the reduced cost of basic pay, government retirement contributions and premium or overtime pay, are realized by using a figure for determining hourly rates that are closer to the actual number of hours in the work year, the report explains.

Affected by this change are General Schedule, Merit Pay, Senior Executive Service, Levels III, IV and V Executive Service employees, and those paid under the Navy faculty schedule.

Concert Ass'n season ticket sale is underway

A series of six concerts will be offered at the Center theater by the Indian Wells Valley Concert Association during the 1983-84 season.

Music lovers who are not already members of the association can join by purchasing tickets for the season, Gene Younkin, association president, announced.

The majority of seats have already been reserved by continuing subscribers. Fewer than 200 remain to be sold for the association's 37th series of performances, and these will go on a first come, first serve basis, Younkin added.

The selection of reserved seats by new members of the IWV Concert Association began in mid-August, and season tickets will be mailed to all members before the first concert on Oct. 20.

Arrangements to purchase tickets for the 1983-84 season of concert programs can be made by telephoning 375-5600 any time. An



Lazar Gosman, orchestra director — Feb. 27

answering machine will take the caller's name and message if no one is in when the call is placed. Visa and Mastercard orders may be handled entirely by phone, if desired.

Tickets remaining for the outstanding lineup of six programs are priced at \$21 and \$17. They are located in the side sections, mostly toward the rear. Already sold out are reserved seats for Section A, which are priced at \$25 each. These charges represent a savings of 40 percent when compared with the cost of single admission tickets for the entire series of six concerts.

Reduced price season tickets, which are 40 percent off the cost of regular admission, can also be reserved now by young people under 21 years of age, enlisted military personnel, and senior citizens 65 years of age and over.

The 1983 concert season will get off to a lively and entertaining start on Oct. 20 with the presentation of a program by the New American Ragtime Ensemble.

This 12-member orchestra was founded in

1976 and is directed by Tom Maguire. The group employs the traditional ragtime instruments — flute, piccolo, clarinet, trumpet, trombone, tuba, two violins, viola, cello, piano and percussion.

During its concert programs, the New American Ragtime Ensemble recreates the time when ragtime music was the rage by also appearing in turn-of-the-century formal dress.

On Wednesday, Nov. 30, Western Opera Theater, the San Francisco Opera Center's touring company, will present a fully staged version (in English) of Puccini's "Madame Butterfly." The artists are young professionals selected from nationwide auditions.

The aim of the Western Opera theater, which was organized in 1967, is to bring fully staged opera in English to communities throughout a large part of the United States.

The opera company's appearance here in November will be a return engagement for the group, which presented "The Marriage of Figaro" on the stage of the Center theater in 1976.

Coming here on Tuesday, Jan. 10, 1984, will be the Los Angeles Guitar Quartet. Brought together in 1979 by the renowned guitarist Pepe Romero, the Los Angeles Guitar Quartet combines the talents of four gifted solo artists.

This group has developed a unique and widely varied repertoire for guitar ensembles, ranging from Renaissance dances to the music of Spain, as well as music of the 20th century.

This unique ensemble has gained wide recognition through concerts and radio appearances, and recently was chosen to perform a 40-concert tour of Mexico under the auspices of the Mexican government.

On Monday, Feb. 27, the Center theater will be the setting for a concert by the Soviet



"Madame Butterfly" — Nov. 30

Emigre Orchestra.

This 18-member orchestra, directed by Lazar Gosman, former music director of the renowned Leningrad Chamber Orchestra, combines the talents of the finest of recently arrived Russian emigre musicians from the Moscow and Leningrad Philharmonic Chamber Orchestras, joined with outstanding American musicians.

The Soviet Emigre Orchestra made its debut in this country in 1979 and embarked on its first tour of the mid-west and north-eastern parts of the U.S. in the fall of 1981.

This was followed by a tour of the south in 1982.

Coming to the Center theater on March 28 will be a program of mime and music presented by John Harvey, as the mime, and Joemy Wilson, folk musician.

In their presentation, entitled "Mime Musica," vocal and instrumental sounds are used to complement Harvey's performance as a mime. The program ranges from comedy and satire to moments of poignancy created by Harvey.

Since their debut in 1977, the talented performers who present "Mime Musica" have been acclaimed for their performances coast to coast at colleges, theatres and festivals. Their appeal is international, as evidenced by responses from audiences of many nationalities during a Caribbean tour in 1978.

The final concert of the 1983-84 season will feature a baroque ensemble of violin, oboe, cello, bassoon and harpsichord in a program entitled "Musical Offering" — named after one of the final compositions of J. S. Bach.

Since its U.S. debut in 1977 in Los Angeles, "Musical Offering" has concertized throughout the country, and made a highly acclaimed New York debut in March 1981, under the auspices of Carnegie Hall. Members of this group are currently artists-in-residence at the California Institute of the Arts.

"Musical Offering" has toured extensively, not only throughout California but in New York and other major American cities. The upcoming engagement here is supported, in part, by funds from the California Arts Council.



Los Angeles Guitar Quartet — Jan. 10



New American Ragtime Ensemble — Oct. 20



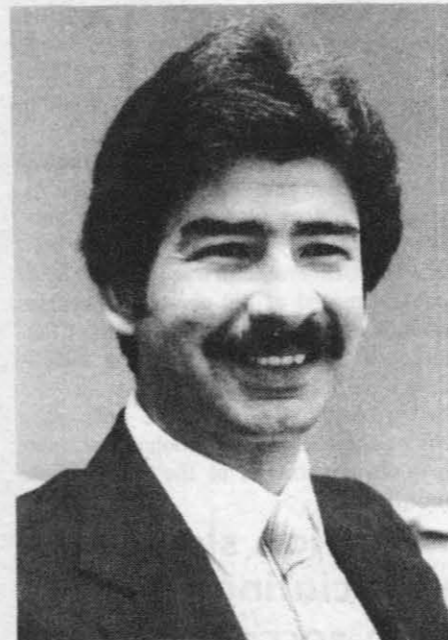
Mime Musica — March 28

Engineer to speak at Hispanic Heritage luncheon Sept. 14

Anyone planning to attend the Hispanic Heritage Week luncheon to be held at the Enlisted Mess next Wednesday at 11:30 a.m. has only a short time remaining to get tickets. Featured luncheon speaker will be Richard Jimenez, a professional engineer, who will discuss the mobility of Hispanic individuals in technical careers.

Tickets for the luncheon can be purchased from members of the Hispanic Employment Committee or from the EEO office, and must be obtained in advance.

Menu for the luncheon is a choice of a taco salad or an enchilada plate; either costs \$4.25 (The Rocketeer inadvertently has



Richard Jimenez

listed the wrong price in prior announcements of the luncheon and apologizes for any inconvenience caused by the error.)

A message from Secretary of the Navy John Lehman notes that Hispanic Heritage Week provides an ideal opportunity to acknowledge the achievements of Hispanic citizens and to highlight the outstanding contributions of the thousands of Hispanic men and women who have served the nation throughout its history and are currently serving in the Armed Forces.

Police reports...

Damage to two vehicles left in the "park and ride" lot near the intersection of South Richmond Road and East Ridgcrest Boulevard was reported last week to China Lake police.

Vandals who worked over a car and a motorcycle broke the headlights on the car and the headlights and turn signals on the motorcycle. In addition, batteries, tool boxes, stereo equipment and stereo tapes were stolen. Between the damage and the thefts, the loss was set at \$1,010.

The owners of the damaged car and motorcycle work in Trona.

VEHICLE BATTERY STOLEN

A thief or thieves took advantage of the long weekend to remove a battery from a government vehicle parked on the north side of the Shrike assembly building at Armitage Airfield. Estimated loss to the government is \$60.

FALSE ALARM

Someone at Richmond School celebrated the first morning of the new school year by pulling a fire alarm in the cafeteria at 8:45 a.m. Cost to the government for rolling all the fire equipment to answer the false alarm is estimated at \$200.

2 DUI ARRESTS MADE

During the month of August, China Lake police made two arrests of motorists who were charged with driving under the influence (DUI) on the Naval Weapons Center.

ASSISTANCE GIVEN

Ridgcrest police officers requested assistance from the China Lake Police Division to perform breathalyzer tests on two suspected drunk drivers over the weekend.



GOOD BRIEFING — Cdr. David B. Kelley (at left), who heads the Biomedical and Test Parachutist Support Division of the Aerosystems Department, shows Capt. Robert M. Kraft, Assistant Commander for Test and Evaluation for the Naval Air Systems Command (AIR-06), some of the intricacies of survival equipment during Capt. Kraft's recent visit to NWC. — Photo by PHAN Rebecca Gill

Kol Nidre, Yom Kippur services to be held at All Faith Chapel

Student Rabbi Moshe Ulmet will lead a Kol Nidre Service for the Hebrew congregation of the All Faith Chapel in the East Wing of the chapel on Friday, Sept. 16, starting at 7:30 p.m.

The words and music of the Kol Nidre create the emotional and spiritual uplifting for those who fast on Yom Kippur, since the fast begins just before sunset on that day and ends at sunset on Saturday, Sept. 17. Only adults and children Bar/Bat Mitzvah age and above fast; anyone with health problems is exempted.

Yom Kippur service will be held from 10 a.m. until noon on Saturday, Sept. 17, to be followed by an adult study session from noon until 1:30 p.m. The afternoon service begins at 3:30 p.m., and lasts for an hour. It will be followed by the Yiskor (Memorial Service) from 4:45 to 5:15, and the concluding service (Neilah) will be held from 5:30 to 6 p.m.

Yom Kippur joins all members of the Hebrew congregation in a bond of repentance, prayer and in the action of God's sealing each individual's destiny in the Book of Life for the year.

The fast will then be broken by a breakfast following the Neilah. Anyone who wishes to donate food for this event who has

Emergency telephone nos. established for deaf

Deaf and severely hearing-impaired persons have long had great difficulty in communicating with fire and police personnel when an emergency occurs. Those on board the Naval Weapons Center will no longer have that difficulty.

The NWC Safety and Security Department has purchased two telecommunications devices for the deaf (TDD) that have been installed in the dispatcher's offices for the Fire and Police Divisions, and a separate emergency telephone number of each of these is now also functional.

Deaf persons who need to call the Fire Division should dial NWC ext. 3939; those needing to communicate with the police can reach that dispatcher on NWC ext. 3883.

When the deaf person places the call, communication is carried on by means of two portable machines equipped with readout displays and keyboards. The deaf individual types the message on his or her keyboard, and that message is then displayed at the dispatcher's office.

The dispatcher can respond in the same way, so that full communication is established even though no words have been spoken.

(The Personnel Department's EEO office also has purchased a TDD in order to communicate with those who are hearing-impaired.)

Deaf persons are able to get these devices at no more charge to them than the normal

not already been contacted is asked to telephone Deborah Luehrs at 446-6377. Persons seeking further information about the services should telephone either Dr. Bernard Wasserman, president of the Hebrew congregation, at 375-8538, or Peggy Busch, the vice president, at 375-7712.

Retirement party set to honor Bill Davis at EM on Sept. 29

All friends and associates of Bill Davis, who headed the Center's Safety and Security Department for many years, are invited to attend a retirement party in his honor at the Enlisted Mess on Thursday, Sept. 29.

The evening's festivities will begin with a social hour at 6 o'clock, with presentations to follow at 7 p.m. Genial Burrell Hays, the Center's Technical Director, will serve as master of ceremonies for the evening.

All those who are planning to attend are asked to telephone NWC ext. 6234 to make a reservation so that name tags can be prepared in advance.

There will be a \$4 per person charge for heavy hot hors d'oeuvres to be served at the party.

China Lake police officers attend FBI sponsored class

Five officers of the NWC Police Division recently returned from Eureka, Calif., where they attended a Special Weapons and Tactics training session sponsored jointly by the Federal Bureau of Investigation and the College of the Redwoods.

Training for the 27-member class emphasized actual in-field problems, with only about 30 percent of the week-long class actually being conducted in the classroom.

As well as the theory of how to handle the problems that call for "SWAT" teams, the training centered on how to use weapons (handguns, rifles, shotguns), high-risk handcuffing techniques, building searches, rappelling (with emphasis on speed and control, such as control of a weapon while rappelling down the side of a building), and physical fitness.

The five officers who attended the training — Virgil Kennedy, Steven Busby, Lester Murray, Andrew Pudgorski, and Thomas Whalen — are all members of the eight-man emergency response unit of the China Lake police.

John Praccia, who heads the unit, was one of five China Lake officers who attended similar SWAT training about five years ago. Other team members (Joseph Giusti and Michael Sword) are receiving their training in these tactics during the regular monthly training sessions that all the officers attend.

The Emergency Response Unit is trained to handle such special efforts as hostage situations (which, says Sgt. Praccia, "we fortunately have not had to face in the past five years"), VIP protection, and various other special projects. In addition, NWC currently has three civilians who are trained in hostage negotiations.

The SWAT teams shown on television are involved usually in very glorified actions, say the local officers, but much of the training that such teams receive can be translated into practical, every-day activities. The methods taught by the FBI agents from San Francisco in the SWAT training are based directly on what the FBI has found worked best for their agents involved in a variety of situations.

The aim of the China Lake police is to get as many officers as possible certified through the FBI training — and to ensure that all the other officers will receive, during the regular monthly training sessions, the information that those who attended the week-long session can pass on to them.



LIFESAVING DEVICE — Sheila Sauder, a consultant for the telephone company, shows Phil Sodergren, an NWC firefighter, how to use the new telecommunication device for the deaf that has been installed for the dispatchers in the Police and Fire Divisions so that deaf people can make emergency calls for help. The Fire Division's emergency number for the deaf is NWC ext. 3939; that of the Police Division is NWC ext. 3883.