



**HOLIDAY BAZAAR PACKS 'EM IN** — The WACOM-sponsored Holiday Bazaar attracted a throng of eager and enthusiastic patrons to the Enlisted Mess, following a ribbon-cutting ceremony last Friday morning. On hand to officiate at the opening of this special event was Capt. Paul D. Stephenson (at left), NWC's Chief Staff Officer, who was joined by Jo Miller, president of the Women's Auxiliary of the Commissioned Officers' Mess, and Santa (Rae Leonard). The two-day bazaar continued a popular holiday-season tradition at China Lake. — Photo by PH3 Rick Moore

## Holiday Bazaar big success; chairman expresses thanks

Sue Byrd, chairman of the 15th annual WACOM Holiday Bazaar held last weekend at the Enlisted Mess, wishes to thank all those who contributed their time and money toward making the event successful. "It takes many people to provide the merchandise, arrange the booths attractively, sell the goods, and then to take the booths down," she said.

The 12 organizations that participated will use their profits for special projects or for operating expenses. The total gross sales of the Holiday Bazaar added up to over \$8,800.

## Schedule for observing Catholic Mass changed

A change in the schedule for observing Catholic Mass at the All Faith Chapel is coming up this Sunday only.

On Nov. 25, confessions will be heard in the Blessed Sacrament Chapel from 7:30 to 7:50 a.m., followed by Mass at 8 a.m.

The regular schedule of Catholic services, which calls for observing Mass at 8:30 a.m. on Sundays, will be resumed on Dec. 2.

## Thanksgiving dinner held by Literacy Class

Foreign-born students of the China Lake Literacy Class, their families, friends, and guests assembled to enjoy the American custom of a Thanksgiving dinner that was held on Thursday night of last week in the fellowship hall of the Immanuel Baptist Church in Ridgecrest.

Dinners were served to more than 100 persons at this event, which was catered by one of the adult Sunday School groups at the church.

The evening's program provided a time of fellowship that included a Scriptural reading by Chaplain Jerry Compton of the All Faith Chapel, songs from their native lands by some of the foreign-born students, and music by the Cross Currents, a trio of instrumentalists who play the banjo, guitar



**DOLLS GALORE** — One of the most popular booths at the WACOM Holiday Bazaar, judging from the volume of sales, was the one operated by the Indian Wells Valley Association for Retarded Citizens. Major attraction was the more than 150 dolls of all types and sizes, each carefully dressed and cleaned up for the bazaar. Other patrons were attracted by the variety of knick-knacks from the Discovery Thrift Shop that were available for purchase as Christmas gifts. — Photo by PHAN Greg Hogan

and fiddle.

Lucille Bergthold, director of the China Lake Literacy Class, a program sponsored by the Protestant Congregation of the All Faith Chapel, was in charge of the evening's activities, which also included a fashion show of wearing apparel modeled by class members from Mexico, Japan, Korea, the Philippines and Korea.

The class roster also includes students from Honduras, Spain, Vietnam, Thailand, El Salvador, Haiti and Germany.

The China Lake Literacy Class, which is in mid-year of its current program, has an enrollment of 55 students who are aided by 16 volunteer tutors. The tutors' duties this past week included helping to prepare the complete turkey dinner that was served on

## VX-5 Christmas dinner, dance scheduled on Dec. 13 at CPOM

Air Test and Evaluation Squadron Five's (VX-5) all hands Christmas dinner and dance will be held on Thursday, Dec. 13, at the Chief Petty Officers' Mess (CPOM).

The festivities will begin with a social hour at 6 p.m., to be followed by a two-meat buffet dinner at 7 o'clock. The evening will be rounded out by dancing to the music of "Port and Starboard," a Navy band from

## Rec Services offers reduced prices for tourist attractions

Active duty military personnel and civilian employees of the Naval Weapons Center who are interested in visiting the Queen Mary luxury ocean liner and the Spruce Goose can now save money while doing so by purchasing tickets at the Recreational Services Department's Information, Tour and Ticket Office in the Community Center.

Both of these southern California tourist attractions are located at the Long Beach Harbor. The Queen Mary is the largest ocean liner afloat, while the Spruce Goose is touted as the largest airplane ever built.

Visitors to the Queen Mary will find restaurants, lounges and shops occupying various sections of the huge ocean liner, which also offers a variety of shows and demonstrations.

Admission prices for this combination tourist attraction, if tickets are purchased in advance here at the Community Center, are \$6.25 for adults (a savings of \$3.25) and \$4 for children 5 to 11 years of age (a savings of \$2). Youngsters under 4 years of age are admitted free of charge.

This offer is in effect now but will expire on Jan. 2, 1985.

the San Francisco area.

Those who attend will be eligible to win door prizes such as a two-night's stay at the Circus Circus Hotel in Las Vegas; a two-night's stay for two at the Seven Seas Lodge in San Diego, with two tickets for an excursion cruise; a silver serving tray from The Ship's Bell in Ridgecrest; a bicycle helmet from T. J. Frisbee's in Ridgecrest; and more than 50 additional prizes.

The grand prize is a trip for two to Anaheim with two Passport tickets to Disneyland, two nights and breakfast at the Anaheim Marriott Hotel, and two passes to the Movieland Wax Museum.

Cost for the evening, including dinner, is only \$1 per person. The balance of the evening's expenses will be provided from the Squadron's Welfare and Recreation Fund.

Tickets which must be obtained in advance, can be purchased from the following VX-5 personnel: AZ3 Cindy Langford, NWC ext. 5357; DP3 Judy Strohl, NWC ext. 5730; AN Finn Thorp, NWC ext. 5330; AE1 Sammie Allen, NWC ext. 5313; and MS2 Van Vandewalle, NWC ext. 5696.

Appropriate dress for this holiday function will be semi-formal with no blue jeans or corduroy pants permitted.

An added treat will be corsages presented to every female in attendance, courtesy of the VX-5 Welfare and Recreation Committee.

## Contributions sought by Navy Memorial Foundation

The United States Navy Memorial Foundation, a private organization, is constructing a memorial dedicated to preserving the memory of U.S. Navy men and women.

This two-story building, to be located on Pennsylvania Avenue in the heart of the nation's capital, will be a tribute to all those who have served in the Navy since 1775.

For those who desire further information or wish to make contributions, contact: U.S. Navy Memorial Foundation, Box 332, McLean, Va., 22101.

MOVIES

G: ALL AGES ADMITTED  
General Audiences  
PG: PARENTS STRONGLY CAUTIONED  
Parental Guidance Suggested  
R: RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian

Regular starting time 7:00 p.m.

FRIDAY	"ALLEY CATS" Starring Kapin Mani and Robert Torti (Action-Drama, rated R, 83 min.)	NOVEMBER 23
SATURDAY	"BREAK-IN" Starring Lucinda Dickey and Adolfo Quinones (Musical-Drama, rated PG, 86 min.)	NOVEMBER 24
SUNDAY	"THE RIGHT STUFF" Starring Scott Glenn and Ed Harris (Drama, rated PG, 193 min.)	NOVEMBER 25
MONDAY	"SPASH" Starring Tom Hanks and Daryl Hanna (Comedy, rated PG, 110 min.)	NOVEMBER 26
WEDNESDAY	"THE LAST STARFIGHTER" Starring Lance Guest and Dan O'Herlihy (Action-Adventure, rated PG, 101 min.)	NOVEMBER 28

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1984 - No. 1037

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NAVAL WEAPONS CENTER  
CHINA LAKE  
CALIFORNIA

November 23, 1984

Vol. XXXIX, No. 47

## Ex-China Laker speaks

# Kinds of changes seen at NWC noted by Dr. Colvard

(Second of two parts)

"When you focus your resolve and energy, you can do almost anything," Dr. James Colvard, Deputy Chief of Naval Material, said of China Lake personnel during a recent interview with the Rocketeer.

He added that "I think you're probably going to take lessons in ark building, but that's one thing I'd like to comment on. I am very impressed with the concerted effort of the community to clean up the lab and get back in business."

"Although I wasn't here, I saw the pictures and Gerry Schiefer took me through the basement of the laboratory to get a clear look at the major damage that occurred. To see that it's back in working order in such a short space of time and to see the pictures of all the people with their sleeves rolled up and wearing a common uniform of dedication to solving the problem, that's impressive."

When asked about the changes that he had seen at China Lake since he first came to work for the Navy in 1958, Dr. Colvard said "I think China Lake went through a period of questioning its character several years ago. It really hadn't too much to do with an individual, although often times certain individuals did get identified with that."

"People moved off the base, and you began to have second and third generation people working on the base. You have a stable community now. People don't come with the same nomad attitude that they did when I came here. Everyone then came for a few years' experience, and planned to leave. That changed; the character of the lab changed."

He continued, "You had a change in leadership, a change in generation. You went from the Newt Wards and Ivar Highbergs and Bill McLeans to the current leadership — Burrell Hays, Gerry Schiefer, Bill Porter, the people who were young engineers when I came out here. The quality of leadership is as good as it was when I first came here, I believe."

"I think the lab recaptured its sense of the Center somewhere in Bob Hillier's time. It wasn't totally Bob's doing any more than one individual's doing caused the change in the other direction."

Dr. Colvard continued, "People at the Center began to recapture the 'can-do attitude,' the almost cocky attitude of 'we can solve any problem.' This is the attitude of 'We'll operate on the principle that it's easier to get forgiven than it is to get permission. If there's a problem to solve, we'll solve it and worry about getting permission later.' I see that attitude rebuilding."

Thoughtfully, he said, "I think the environment has opened up a little bit more to let the Center play its natural role. With Burrell you have an excellent guy who carries over the culture of those early days, who has the understanding, the conceptual understanding, of what the Center is about. As he and Porter and Schiefer and the other leaders of the Center now impart that to the new generation, I see the culture being handed down."

"China Lake is now a mature institution. It was young and growing institution when I

## Support of Combined Fed'l Campaign hits total of \$150,457

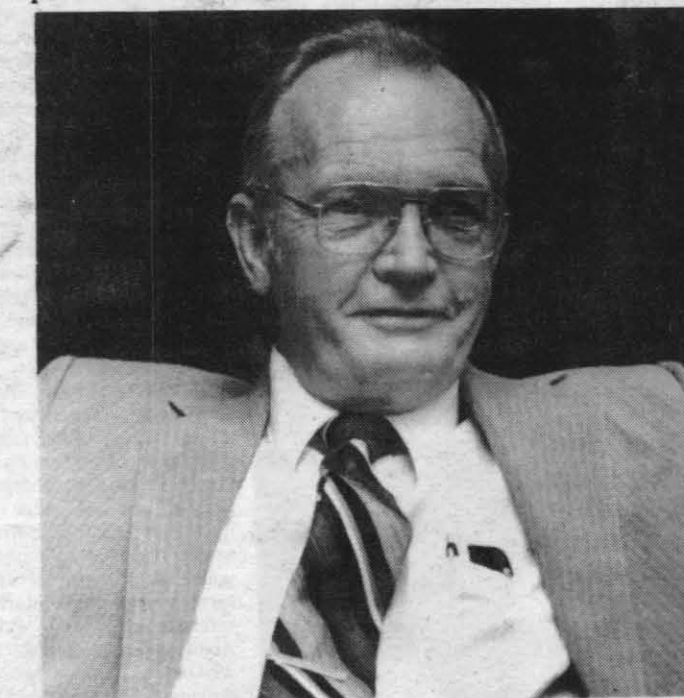
Donations received in this year's Combined Federal Campaign total \$150,457 as of last Monday morning, according to the coordinators for this year's drive, Loretta King and Natalie Harrison.

This total includes a check for \$1,945 from the Women's Auxiliary of the Commissioned Officers' Mess, which contributes half of the money raised by operation of the Thrift Shop to the CFC in the fall (the other half always goes to the Navy Relief Society).

Since the Combined Federal Campaign began late, because of supplies not being available, the time for key personnel to get in all contributions has been extended until next Friday, but by law, the drive must end on Nov. 30.

Mrs. King urges anyone who still has a pledge card outstanding to turn it in immediately. Contributions may be made either by payroll deduction or in cash, and all donations are tax deductible.

"No organization is ever one person; it's a collection of attitudes that are established when one person sets the tone."



Dr. James Colvard

came here, and wasn't quite certain what it would finally be when it grew up. Would it be a brilliant star tied to the personality of one man? Would it be appropriate for one time and then become lethargic? Or would it retain that dynamism and perpetuate that spirit? That's tough to do.

"And you've not only done that, you've recaptured the spirit, matured it and will perpetuate it. When I left here in 1969, I wasn't sure you could," Dr. Colvard said. "I didn't leave because I feared you couldn't, but because I was ready for an expanded challenge and I didn't see it here. I felt, frankly, that some of the leaders had stayed too long and some of the people who were ready couldn't get opportunities. A lot of us left. In some cases, you were probably better off that we did leave."

## Cdr. Joseph Dyer receives Tech Director Award for contributions to HARM Program

Presentation of the NWC Technical Director's Award was among the highlights of a recent farewell party held in honor of Cdr. Joseph W. Dyer, associate technical manager of the HARM Technical Management Office, Electronic Warfare Department.

Acting on behalf of B. W. Hays, the Technical Director Award was presented to Cdr. Dyer by Gerry Schiefer, Deputy Technical Director.

Cdr. Dyer, who has since left China Lake for Melbourne, Australia, to serve in the Naval Plant Representative Office, was highly commended for his outstanding contributions during a tour of duty at the Naval Weapons Center that began in October 1982.

The honoree served at various times as the High Speed Anti-radiation Missile (HARM) associate technical manager, the F/A-18 HARM Integration Program Manager, and the Electronic Warfare project officer.

According to Paul Homer, head of the Electronic Warfare Department, who nominated Cdr. Dyer for the Technical Director Award, the Navy officer (in his role as EW projects officer) provided technical consultation and advice to scientists and engineers.

He also was an active participant in program strategy meetings and technical discussions — drawing upon his operational experience to influence changes.

As a staff function, Cdr. Dyer met with Chief of Naval Operations' sponsors inter-

ested in developing a strike training capability, and provided his insight on requirements for an effective Tactical Aircrew Combat Training System that he has test flown.

Among the many accomplishments of



Cdr. Joseph W. Dyer

"I'm very proud of working at China Lake," Dr. Colvard said. "I wouldn't want the country to lose that character of the institution that was embodied by guys like McLean and others, but that was really the character of the total community."

"No organization is ever one person; it's a collection of attitudes that are established when one person sets the tone. Bill McLean properly gets credit for setting the tone. It takes a hell of a lot of followers to make a successful leader; there were a lot of brilliant followers here. We've taken a lot of that attitude and marketed it to other labs — Barney Smith and Chuck Bernard and I — that attitude was born right here."

Dr. Colvard talked also about changes that he has seen in the laboratory community as a whole in the nearly 30 years that he has worked for the Navy, saying that "The role has changed more in technique or style than in substance."

"We got carried away in recent years with contracting out, for example, in changing the role of the labs in terms of the nature of work that they could do. Right now, the attitude is much closer to that existing when Bill McLean was here and what the Center would consider its high water mark, when it would accomplish one of a long line products like Sidewinder, HARM, Walleye."

"We went through a low period when we had emphasis on the percentages that should be done in-house and out-house of the R&D itself. We had an A-109 that said we should use industry, not the laboratories. The law didn't actually say that, but it was interpreted that way."

Dr. Colvard added that the amount of contracting in the future was hard to

(Continued on Page 4)

Cdr. Dyer that were the basis for his nomination to receive the NWC Technical Director's Award, he was designated by the CNO as "the key and essential figure in the successful accomplishment of the HARM introduction to the Fleet."

In addition, Cdr. Dyer was cited for his role in the establishment of an NWC and Operational Test and Evaluation Force HARM training team that expedited matters by effecting and maintaining direct communication between Fleet pilots and weapons schools.

Beyond that, the honoree provided dynamic leadership of the F/A-18 HARM team whose members were responsible for the complex tactical air weapons integration on the Navy's newest fighter aircraft. As a result, the Navy's technical evaluation was carried out on schedule and at a savings estimated at between \$8 million and \$10 million less than the original estimate, Homer wrote in recommending Cdr. Dyer for the Technical Director Award.

Also among the contributions made by Cdr. Dyer during his two year tour of duty here was his participation in "Peace for Galilee" military operations as an expert on defense suppression tactics, air-to-air radar, and electronic counter-countermeasures. The result was a report that was acclaimed for its impact on the identification and assessment of potential Navy readiness issues.

Participation in a management study on

(Continued on Page 5)



## Summer worker job as computer aid pays unexpected dividends

A summer employee job by Cindy Brehmer as a computer aide in the Computer and Software Systems Branch of the Electronics Warfare Department's Systems Division is beginning to produce unexpected dividends.

According to Richard Fryer, head of Code 351, Mrs. Brehmer's work on testing software for reliability is now being applied to a new release of the High Speed Anti-radiation Missile (HARM) computer software.

"The results have been very promising," Fryer stated, noting that present plans call for using the same methods to predict reliability for updated versions of the Command Launch Computer (CLC), as well as for the Electronic Warfare Facility Software that is used for HARM and CLC validation.

Facility software must be updated when the tactical software is updated, and the reliability of the test software is equally critical, Fryer explained.

In the past, reasonable reliability projections have been unavailable. Consequently, developing a method that works can save time and money on testing, or can assure that Fleet software meets mission reliability requirements.

Mrs. Brehmer has been working with Dr. John Musa, of Bell Laboratories in Whippany, N.J., who is the developer of the present software reliability model. Improvements in this model to reflect embedded computer test methods and Fleet maintenance updates are being worked on jointly with Bell Labs.

Mrs. Brehmer, who is now a senior at California Polytechnic Institute in San Luis Obispo, where she is majoring in biochemistry with a minor in computer science, was involved this past summer in the evaluation

of the reliability of software for HARM, A6-E and A-7E tactical embedded computers.

Software reliability is defined as the probability of failure-free operation of a computer program in a specified environment for a specified time.

In addition, she investigated a software reliability model for use in the testing of these programs, and presented this information to a high level Naval Air Systems Command conference on the subject of "Testing Software for Reliability" that was held in Washington, D.C.

She also was the author of a paper on "Testing Software for Reliability" that was presented during a three-day symposium on Embedded Computer Technology that



Cindy Brehmer

was presented here recently in the Michelson Laboratory auditorium.

A native of Ridgecrest who was graduated in 1979 from Burroughs High School, Mrs. Brehmer, while working in Code 3142 as a computer aid from June to December 1981, improved several data reduction programs for the A-7E navigation lab, and documented the data reduction and simulation programs for a users' manual.

From June to December 1982, as well as during the summer of 1983, she was employed by E.B. Associates in Ridgecrest as a programmer/analyst.

This involved her in the development of the "Complex Targets" program, which allows user specification of target and weapons, and calculates the probability of "kill" or damage to the target using the weapons selected. In addition, Mrs. Brehmer wrote a complete user and analyst documentation for the "Complex Targets" program.

### Tel-Med tape of week

Wearing seat belts can reduce the risk of serious injury or death in case of an accident by as much as 90 percent, but fewer than one out of six people wear them. For more information on seat belts and car safety, call Tel-Med anytime at 446-3541 and ask for tape No. 150.

## Promotional opportunities

Applications (Standard Form 171) should be in the drop box at the Reception Desk of the Personnel Dept., 505 Blandy, Unit 6, no later than 11:00 a.m. on the day of the promotion. All others desiring employment at NWC may contact the Employment Wage & Classification Division, Code 097 Ext. 2244. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Advertising positions in the Promotional Opportunities column does not preclude the use of alternative recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DoD Program for the Stability of Civilian Employment. The minimum qualification requirements for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook 1-118; those for all wage system positions are those defined in OPM Handbook C-118C. Applicants will be evaluated on the basis of experience, training, education, and awards as indicated in a written record consisting of a SF-171, at least one supervisory appraisal if it can be obtained, and any tests, medical examinations, interviews, and supplemental qualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

### No. 08-064, Program Analyst, DP-345-3, Code 08066

This position is located in the Accounting and Disbursing Division, Office of Finance and Management. The position will be the program analyst for the STAFS at NWC. The position will be the NWC analyst for STAFS review, implementation and operation. The incumbent will determine input/output requirements and system interface requirements; coordinate design, assist in development of and implementation of hardware, software and communications interfaces. Job Elements: Extensive knowledge of the current NWC financial system and STAFS, especially travel, cost accounting, plant account and disbursing operations and procedures; knowledge of NWC organizational structure, NWC administrative policies, procedures, and regulations; ability to organize and plan complex programs; ability to gather and analyze financial data; ability to interface with employees at all levels, both internal and external to the Center. Status applicants may apply. Previous applicants need not re-apply.

No. 24-116, Police Dispatcher, GS-301-2/3/4, Code 2413 — Incumbent performs dispatching duties for the China Lake Police Division and maintains radio communications with NWC Guard Posts, Fire Division, Naval Investigative Service, and off-center police agencies. Coordinates and controls radio traffic between police units; responds to requests for assistance by police units and/or notifies appropriate source, furnishes requested information to the public, or refers to appropriate authority. Job Elements: Ability to communicate clearly, orally and in writing; demonstrated tactfulness and diplomacy; experience in radio communications; ability to work effectively in stress situations.

No. 26-104, Materials Expediter, WG-6705-7, Code 2611 — Supplemental required. Provides assistance to the Shop Material Controller determining material availability, reviewing bills of material and follow-up support; coordinates the staging of material. KSAs: K- parts and equipment. A- to do materials expediting practices; use reference materials and materials.

No. 26-105, Transportation Clerk, GS-2101-4/5, Code 2609 — Temporary promotion NTE 1 year; may become permanent at a later date. Receives and accounts for all grounds fuel deliveries; provides quality assurance evaluations; monitors fuel usage. Job Elements: Ability to communicate well both orally and in writing; ability to gather data and prepare reports; ability to work independently. If filled at the GS-4 later and becomes permanent, potential to the GS-5.

No. 26-106, Planner and Estimator (Carpentry), WD-4607-8, Code 2613 — Temporary promotion NTE 1 year; may become permanent at a later date. Completes inspection of buildings and structures as assigned. Job Elements: Ability to

facilitate production; technical practices; ability to interpret instructions and specifications; knowledge of pertinent materials; knowledge of pertinent tools and equipment. A Supplemental Qualifications Statement is required.

No. 26-107, Shop Materials Controller Leader, WL-4701-3, Code 2611 — Works directly with and leads shop materials controllers. Sets pace and demonstrates proper work methods. Job Elements: Applied knowledge of the trade; ability to act as a group leader; ability to interpret instructions; knowledge of pertinent materials; knowledge of pertinent tools and equipment. A Supplemental Qualifications Statement is required.

No. 26-108, Management Analyst, DA-343-2/3, Code 2638 — Prepares documentation for projects, site approvals, reports, budgets as required by the Navy's Shore Facilities Planning System. Job Elements: Ability to communicate well both orally and in writing; ability to coordinate cost estimates for projects; knowledge of space planning.

No. 31-090, Interdisciplinary, Computer Scientist, Physicist, Electronics/Mechanical/General/Aerospace Engineer, Mathematician, DP-1550/1310/855/830/801/861/1520-2/3, Code 3112 — Provides the validation, verification and modification of operational flight programs exercised in the tactical computers of the A-6 aircraft. Incumbent will be the A-6 facility lead software engineer responsible for the technical planning, coordination of specification, implementations for modifications and development of new capabilities for the A-6 laboratories. Emphasis is placed on real-time simulation software and hardware. Incumbent will be technically responsible for tasks and milestones performed by others. Elements: Ability to provide leadership to a multidisciplinary group of engineers, technicians and computer scientists; communicate well, both orally and in writing; plan a project from concept to completion; familiarity with structured digital system design practices and software development and Mil Std 1679. If filled at DP-2, promotion potential is to DP-3, but not guaranteed. Previous applicants need not re-apply.

No. 31-095, Interdisciplinary General/Electronic/Mechanical Engineer, Mathematician, Physicist, DP-801/855/830/1520/1310-2/3, Code 3192 — Responsible for the analysis of avionics and weapons system tradeoff and design studies created by the contractor. Will generate and review test specifications and requirements for completeness and compliance with system specifications. Responsible for the development of software requirements and the associated tasks and milestones to achieve timely integration into the A-6 EOP. Elements: Experience in aircraft integration; knowledge of integration of new weapon systems with existing avionics; ability to communicate well, both orally and in writing; knowledge of software engineering techniques and documentation. Previous applicants need not re-apply.

No. 31-096, Interdisciplinary General/Mechanical/Electrical Engineer, Physicist, Computer Scientist, DP-801/830/850/1310/1550-2/3, Code 3192 — Responsible for developing assembly language, real-time software for the A-6E on-board tactical computer. Responsible for incorporating GAS and/or HARPOON IC into the Operational Flight Program as part of the System Weapons Integration Program. Position requires involvement in OFP iteration timing studies and error analysis, as well as support of A-6E software presently in the Fleet. Job Elements: Knowledge of real-time assembly language and

(Continued on Page 7)



PROTESTANT			
Sunday Worship Service	1000		
Sunday School (Annexes 1, 2 & 4)	0830		
Bible Study (East Wing Wednesday)	1130-1230		
ROMAN CATHOLIC			
Sunday Mass	0830		
Communion Service (except Monday)	1135		
Confessions	1630-1700 Friday		
Religious Education Classes	0745-0815 Sunday		
(Annexes 1, 2 & 4)	1000 Sunday		
JEWISH			
Friday (East Wing)	1930		
UNITARIAN			
Sunday (Annex 95, as announced)	1930		

## Secretarial opportunities

This column is used to announce secretarial positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of organization, its objectives and lines of communication. Depending on grade level, typical secretarial duties are implied by the job relevant criteria indicated below.

Unless otherwise indicated, applicants will be rated against the job relevant criteria indicated below. A supplemental form is required and may be obtained at Room 100 in the Personnel Building. Job Relevant Criteria: Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to review outgoing correspondence; ability to compose correspondence and/or to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize workload of clerical staff processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

No. 31-093, Secretary (Typing), GS-318-3/4, Code 3113 — Provides secretarial support to the A-7 Facility Branch Head and branch personnel. Previous applicants need not re-apply.

No. 36-182, Secretary (Typing), GS-318-3/4, Code 3622 — Provides secretarial support to the Systems Electronics Branch. Promotion potential to GS-5. Status eligibles may apply. Previous applicants need not re-apply.

No. C-35-062, Secretary (Typing), GS-318-5/6, Code 3501 — Provides secretarial support to the Associate Department Head, head of staff and other department staff personnel.

## Youth soccer...

(Continued from Page 6)

The Cosmos topped off an undefeated season by rolling to a 4-0 victory over the Strikers. Three goals by Scott Ross clinched the win for the Cosmos, and Steve Sticht added one more goal for the Division 2 champs, who got off to a 3-0 lead in the first quarter of their game with the Strikers.

After making a game of it in the first half, the Timbers fell to the Lancers by a 5-0 final score. Two goals each by Chad Shedlock and Mike Matson, and one by Joey Hernandez accounted for all of the scoring in the Lancers' win over the Timbers.

A good effort by goalie Peter Byers of the Timbers prevented additional scoring by the Lancers.

### SOCKERS BREEZE TOWIN

The Sockers kept the pressure on around the Blizzard's goal as they romped to a 6-0 win on three goals by Carter Jones, two by Jon Rae, and one by Natalie Noel. In addition, Natalie Noel stopped a penalty kick awarded to the Blizzards to preserve the shutout.

The Owls kept their undefeated record intact, knocking off the Chiefs 4-0, and thereby clinched the title in Division 1 of the Youth Soccer League.

Two goals by Mike Fredericks and one each by Greg Greedy and Aaron Booth wrapped up the season for the Owls. Fredericks overpowered the Chiefs as he hit his two goals from about 20 yds. out. Greedy dribbled through three defenders to score his goal, while Booth controlled a rebound off the Chiefs' goalie to put the ball into the net.

Scores of other Division 1 games on the final day of play were Rowdies 2, Coyotes 0, and Cobras 1, Fury 0. Both the Express vs. Apollos and Eagles vs. Roadrunners contests ended in scoreless ties.

### ROWDIES EDGE COYOTES

One goal each by Joe Mechtenberg and Jeff Brown wrapped up the Rowdies' 2-0 win over the Coyotes. Other scoring threats by the Rowdies were thwarted by the defensive play of Brandi Bailey and Michael Ross, of the Coyotes, whose goalie, Chris Kajiwar, turned in a topnotch performance.

In a game that was long on defense and short on scoring, Troy Flores connected for the only goal in the Cobras' 1-0 win over the Fury.

### GOOD GAME — NO SCORE

A good offense by the Apollos ran into an equally strong defense by the Express — resulting in a scoreless deadlock between these two teams.

The Roadrunners, greatly improved over their earlier games this season, hung in their tough on defense to shut out the Eagles, but were unable to crack through to score against the Eagles, who were forced to settle for a 0-0 tie.

### Unofficial results of Youth Soccer League:

DIVISION 1			
Team	Won	Lost	Tied
Owls.....	7	0	1
Rowdies.....	6	0	2
Eagles.....	4	2	1
Cobras.....	3	3	2
Roadrunners.....	2	1	5
Apollos.....	2	4	2
Express.....	1	3	4
Fury.....	1	3	4
Coyotes.....	1	3	4
Chiefs.....	0	7	1
DIVISION 2			
Team	Won	Lost	Tied
Cosmos.....	7	0	0
Lancers.....	5	1	1
Sockers.....	5	2	0
Strikers.....	3	3	1
Earthquakes.....	3	3	0
Blizzard.....	3	4	0
Aztecs.....	2	4	1
Timbers.....	1	5	0
Drillers.....	1	3	1
DIVISION 3			
Team	Won	Lost	Tied
Sounders.....	7	3	0
Whitcaps.....	5	2	1
Tornado.....	5	3	0
Rogues.....	3	3	2
Kicks.....	3	4	1
Diplomats.....	3	5	0
Roughnecks.....	2	4	2
Surf.....	1	7	0



TABLE TENNIS CHAMPS — Competing against players from six other military installations in the Mojave Desert Interservice Sports League (MDISL), Bill Chan (at right) and Carl Norlund, representing NWC, placed first and second in the singles and won the doubles of the MDISL table tennis tournament held last Saturday at Norton Air Force Base in San Bernardino. Chan, who is an electrical engineer in the Fuze and Sensors Department's Radio Frequency Branch, has finished no worse than second in the MDISL table tennis singles event every year for the past five years. Norlund is a technical and security specialist assigned to the Security and Safety Department's Automatic Data Processing Security Office. Due to an illness affecting Norlund, the China Lakers had no opportunity to practice together prior to entering the tournament at Norton AFB. — Photo by PH3 Rick Moore

## Promotional opportunities

(Continued from Page 2)

structured software engineering techniques; skill to translate technical requirements into efficient, functional assembly code. Previous applicants need not re-apply.

No. 33-142, Electronics Engineer, DP-855-2/3, Code 3384 — Incumbent will be responsible for the design and implementation of data acquisition systems for test programs concerned with weapons, stores, and survivability designs and equipment in existing and planned aircraft; perform field and laboratory tests and resulting data reduction and assessment; design and implementation of test specimen and control systems; provide direct technical support of facility designs and improvements. Job Elements: Knowledge of mini/micro computer programming and applications; knowledge of instrumentation techniques and equipment; knowledge of video systems and equipment. A knowledge and/or familiarity with military aircraft, jet engine propulsion systems, and ordnance systems is desirable.

No. 33-143, Aerospace Engineering Technician, DP-802-2/3, Code 3384 — Incumbent will serve as a firing officer and coordinator of test programs concerned with weapons, stores, and survivability designs and equipment in existing and planned aircraft; coordinates ordnance operations and equipment; and interfaces with other firing officers and contractors in accomplishing programs. Job Elements: Knowledge of ordnance systems and components, aircraft and aircraft systems, jet engine propulsion, and basic fabrication and machine processes; ability to read engineering drawings; ability to interface and communicate effectively with personnel in government and private industry; ability to work effectively without close direct supervision.

No. C-35-061, Engineering Data Management Specialist, DS-301-1/2, Code 3546 — Provides engineering data management, documentation reproduction and data base management in support of the Aircrew Electronic Warfare Training Ranges and Range Electronic Warfare Simulator Programs. Assists in the development, preparation and implementation of Contract Data Requirements List. Knowledge of documentation reproduction management techniques; knowledge of data items and contract implications and edge of data items; ability to build and maintain a master filing system; ability to communicate orally and in writing; ability to deal with technical personnel at all levels.

No. 36-175, Mechanical/Electronics Engineer, DP-830/855-2/3, Code 3626 — Performs engineering design and production support of missile servo control systems and associated test systems. Included are product improvement analysis, technical liaison on contracts and engineering validation of missile documentation packages.

Job Elements: Knowledge of design, analysis, test and production practices of electromechanical servos and components; of test instrumentation and writing/executing computer programs; of computer control of test and measurement equipment, reliability and quality assurance. Ability to interface with program office, sponsor and contractor personnel to com-

municate effectively, both orally and in writing. Previous applicants need not re-apply.

No. 39-072, Electronics Technician, DT-856-2/3, Code 3941. The work in this section involves technology base efforts in electro-optical seeker systems. This position supports the work of the branch in system and subsystem fabrication, check out, and maintenance. Job Elements: Knowledge of electronic systems with background in electro-optical missile seekers; knowledge of digital and analog components, mathematics, and electronic test equipment. Previous applicants need not re-apply.

No. 39-073, Interdisciplinary (Electronics Engineer/Computer Scientist/Mathematician/Physicist), DP-855/1550/1520/1310-1/2/3, Code 3922 — The Missile Software Branch supports department programs in the design, development, and management of missile systems software. The position is with the Missile Borne Computer-in-the-loop Facility which utilizes an all digital flight simulation to exercise the Sparrow missile computer. Incumbent obtains missile system engineering experience as the work involves consolidating the efforts from such disciplines as aerodynamics, radar environmental modeling, radar receiver analysis, digital design, and software design, modeling and coding. Duties will consist of software development, testing of pseudo real time simulation model, programming of the Sparrow missile computer and hardware analysis. Job Elements: Ability to work as a team member with minimum supervision; communicate well; program in assembly language and in FORTRAN is desired. Experience in simulation modeling or radar analysis, is desired. Previous applicants need not re-apply.

No. 82-41, Electronics Technician, DT-856-1/2/3, Code 82503 (2 positions) — Incumbent will be responsible for the integration, operations, and maintenance of Communications Security (COMSEC) equipment. Coordinates with all range activities to assure COMSEC systems availability, configuration, and operability necessary to support daily operations. Assists in the development and implementation of planned COMSEC systems, and the preparation of operational and security procedures for those systems. Job Elements: Basic electronics background in digital/analog circuitry with experience in test equipment/troubleshooting techniques; ability to develop and interpret schematics and engineering drawings; ability to communicate effectively, both verbally and in writing; willingness to work flexible hours, travel, and attend special COMSEC training; fundamental knowledge of range operations, range instrumentation and communications systems, and NAVWPNCEN security procedures is desirable. Status eligibles may apply.

No. 64-18, Aerospace/Mechanical Engineer, DP-830/861-2/3, Code 6412 — Incumbent will have project engineer/program management responsibility for Fleet support programs involving personnel recovery/aerial retardation systems for naval aircraft members. Incumbent will plan, schedule, budget and coordinate assigned programs to ensure that all requirements needed to

## NWC firefighters to enter car in race at Pearsonville

A group of China Lake firefighters will be entering a car in the auto races planned on the weekend of Nov. 24-25 at the Pearsonville Speedway.

Entered in the "claimer division" of the "Turkey Classic," which is the final race of the 1984 season at Pearsonville, will be a Chevrolet Nova driven by firefighter John Cook.

Cook has been assisted in the work of rebuilding the race car's engine and installing a new transmission by a team of firefighters that includes Larry Kuster, Nick Casson, Bob Voight, Jerry Wilson and Paul Hupka.

The two-day Turkey Classic at Pearsonville is expected to attract as many as 300 entries from throughout California. Races around the quarter-mile circuit at the Pearsonville Speedway will vary from 10 to 20 laps depending upon which of four divisions a race car is competing in.

## BHS basketball...

(Continued from Page 6)

time for this issue of the Rocketeer regarding the top seeded teams in that tournament, but the Burroughs High coaches and players are looking forward to another severe test when they engage in the annual Kiwanis Tourney at San Bernardino Dec. 26 through 29.

Bonanza High of Las Vegas, Eisenhower and Redlands High Schools, as well as the host squad from San Bernardino, are reported to be the pick of the crop in the Kiwanis Tournament.

## Reassignment Opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

No. C-36-060, Multidisciplinary Supervisor (Aerospace/Electronics/General/Mechanical Engineer, Mathematician, Operations Research Analyst, or Physicist), DP-861/855/801/830/1520/1310-4, Code 35101 — Serves as Associate Head, Systems Sciences Division. Division specializes in electronic warfare systems analysis, synthesis, simulation, evaluation and software development and foreign technology. KSAs: Knowledge of technology base and latest technological advancements affecting electronic warfare systems, analysis, and foreign technology assessment; ability to conduct analyses and evaluate weapons systems; ability to deal with NWC management, Systems Commands, other DoD agencies and contractors; ability to supervise; and the ability and willingness to carry out Federal EEO policies and goals. To apply for this position, forward an up-to-date SF-171 to Mike Stallard, Code 351 (phone NWC ext. 3900).

## The Rocketeer

Official Weekly Publication  
Naval Weapons Center  
China Lake

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## NWC represented at Nevada Service Rifle Championships

The Naval Weapons Center was well represented recently by a seven-member rifle team that entered the Nevada State Service Rifle Championships held at Boulder City, Nev. The event drew a field of nearly 100 competitors.

The individual standout was ET1 Mark Mahoney, who came in second in the marksman class by placing either first, second or third in nine of the eleven events in this class.

His record was third in the 1,000 yd. any sight match; second in the 1,000 yd. iron sight match; second in the marksman class with an aggregate score of 192; first in the 200 yd. slow fire (standing) match; second in 200 yd. rapid fire (sitting) match; second in the 600 yd. slow fire (prone) match; and first in the 600 yd. slow fire (prone) match.

Mahoney returned to China Lake with a bronze medal in the excellence-in-competition match — an event that was worth six points toward a Navy Distinguished Marksmanship Medal, which is awarded after a total of 30 points have been earned.

Other China Lakers entered in the marksman class, and the results of their efforts, were:

AT3 Jesse Collins, first in the 200 yd. rapid fire (sitting) match, third in the 200 yd. slow fire (standing) match, first in the rapid fire aggregate, and third overall behind Mahoney for his combined score in the marksman class.

In addition, ATCS Gary Cooper of NWC placed second in the marksman class 1,000 yd. any sight match.

In the expert class, AZI Rod Minnick won the 600 yd. slow fire (prone) match, and FTCS Nelson Foucher placed third for his aggregate score in the rapid fire matches. Both men are from China Lake.

In the 1,000 yd. team match event, the China Lakers placed fourth. Those whose scores put the NWC team among top contenders in this event were ATCS Gary Cooper, FTCS Nelson Foucher, ET1 Mark Mahoney, and AZI Rod Minnick.

Either M-1 or M-14 rifles were fired in this service rifle championship competition. Individual scores of the seven China Lakers in the three-day event, with 1,000 and 100x the highest possible totals, were: AZI Minnick, 942 (17x); FTCS Foucher, 925 (19x); FTMC Jeff Mattick, 906 (14x) — all entered in the expert class; and ET1 Mahoney 905 (17x); AT3 Collins, 879 (7x); ATCS Cooper, 804 (4x); and FTMC Paul Maddox, 729 (11x) — all entered in the marksman class.

## 8 week season ends for Youth Soccer League

A 3-2 win by the Diplomats over the Tornados highlighted the final games of the 8-week season played last Saturday between teams competing in Division 3 of the Youth Soccer League.

The victory, only the third of the season, was a big one for the Diplomats, who were led on offense by the goal scoring (one each) of Ryan Christensen and Scott Becker, as well as Brent Wells, who cashed in on a penalty shot that turned out to be the game-winner.

The score of the Diplomats vs. Tornados' game had been tied at 2-2 thanks to the two goals tallied for the Tornados by Ted Mechtenberg, who was assisted on one scoring play by Shawn Hamilton.

Results of other Division 3 contests included Kicks 5, Roughnecks 3; Whitecaps 4, Rogues 1; and the division-winning Sounders capped off their season by romping to a 7-0 victory over the Surf.

Excellent midfield play by Matt Mann

## Barstow Marines crush NWC varsity cagers

The NWC men's varsity basketball team, playing its first game of the 1984-85 season in the Center gym, came out on the short end of a 90-65 final score on Sunday afternoon. The winners of this contest were the Bulldogs from the Marine Corps Logistic Center at Barstow.

The China Lakers also fell victim to the Barstow Marines the preceding afternoon in a game played on the Marines' home court, where the final tally favored the Bulldogs by a 32-point margin of 107 to 75.

Sunday afternoon's game at the China Lake gym got off to a slow start with three baskets by Jesse Pigford giving the NWC varsity a 6-0 lead before the visitors from Barstow got on the board with their first points after 3 min. of the first half had slipped away.

Thanks to turnovers on the part of the China Lakers, the Bulldogs began to assert themselves — running off 10 unanswered points to build up a 20-8 lead — and the tone was set for remainder of the game.

A brief surge by the Navy team momentarily reduced the Barstow lead to 8 points (28-20) with 5 min. left to play in the first half, but Eric Thompson came off the bench to hit three field goals, including a nice shot from the corner, to boost the Marines' lead to 40-28 at the half.

During the second 20 min. of action, the China Lakers, try as they might, were unable to shut down the Marines' offense and fell further and further behind.

Sporadically, the NWC varsity hit a flurry of 4 to 6 points, but the handwriting



**IN YOUR FACE** — Close guarding by Bryan Hill, of the Barstow Marines, makes it tough on James Dolly, of the NWC varsity, as he tries for a field goal in the NWC vs. Barstow Marines game.



**HANGS IN AIR** — Otis Gamble, of the NWC varsity team, goes up for a shot at the basket in the NWC vs. Barstow Marines game played Sunday afternoon at the Center gym. Waiting to pick off a possible rebound are Ed McNair (No. 33) for Barstow, who is flanked by Jesse Pigford (No. 55) and Mike Kauppi (No. 45) of the NWC varsity. The Barstow Marines defeated the China Lakers 90-65 here on Sunday and 107-75 in a game played Saturday at Barstow.

already was on the wall insofar as the eventual outcome of the game was concerned.

With 7½ min. left to play until the final buzzer, the Marine Corps cagers held a 25-point advantage of 75-50 and kept peppering away at the basket to roll up 90 points compared to 65 for the China Lake quintet.

The game's high point man was Mike Kauppi, who hit 11 field goals and 9 free throws for a total of 31 for NWC. Backing him up were Pigford and Otis Gamble, the only other China Lakers to make it into the double-figure scoring column. They tallied 13 points each.

Top scorer in the Sunday afternoon game for the Barstow Marines was Bill Potts, who tallied 19. The Bulldogs had three other hoopers — Eric Thompson, Keith Reddock and Ed McNair — who helped keep their offense rolling with 12, 10 and 10 points, respectively.

On Saturday afternoon at Barstow, the Marines outran and outshot the China

## BHS boys' varsity hoopsters preparing for 1984-85 season

Burroughs High School's boy's varsity basketball, fresh from a Tuesday afternoon scrimmage with the Barstow High Aztecs at Barstow, will open the 1984-85 hoop season on Dec. 4 by taking on their counterparts from Bakersfield High School.

The Burros, coached by Larry Bird, racked up their sixth consecutive Golden League championship in 1984, and will be in the battle for league honors again when league action rolls around in January.

Practice sessions began on Nov. 5, and

the Burros also were engaged in some tough summer league action.

Based on this, Coach Bird expects to open the game with the Drillers from Bakersfield High with a starting quintet that will find Mike Bailey, a 6 ft., 5 in. senior and three-year varsity player, at the center or post position.

Ball-handling guards will be two of the following three seniors. They are Steve Barkley, 6 ft., 2 in.; Rob Berghorn, 6 ft., 1 in.; and Tim Lewis, 5 ft. 9 in.

Those expected to get the call at the forward positions when the season-opening tip-off goes up are Allen Celestine, a 6 ft., 2 in. junior, and Jimmy Hill, a 6 ft., 4 in. sophomore.

Those who will be moving up from last season's league champion junior varsity squad are Mitch Bird and Marc Mead, guards; Richard Cruise and Kevin Featherston, forwards; and Jimmy Goetz, at center or guard.

Rounding out the varsity squad are Gene Byrd, a sophomore who played a guard position on last year's BHS freshman team; and Ken Hardy, a transfer, who will be playing the center or post position.

In preparation for the start of the Golden League season, the BHS boys' varsity basketball team will be in action at the San Luis Obispo Tournament Dec. 6, 7 and 8, where the top teams are expected to be Crespi of San Fernando Valley and East Bakersfield.

That outing will be followed by a trek to La Canada for another tourney there on Dec. 10, 11 and 12. No word was out at press

(Continued on Page 7)

(Continued on Page 7)

## 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

**Civilian Employee** — Recently EG&G was granted a second extension of their contract at Echo Range. All security badges expired the last day of September. Possibly because of the cost of making new badges they were not issued new ones. Instead, each employee was given a form letter saying the contract was extended.

These letters do not even reference a specific person, except for a handwritten name at the top. They were evidently Xeroxed from the same original because they all have the same six typing errors. Couldn't we at least correct typing errors?

Sometimes the guard checks to see if the contractors have their letters with them, only putting everyone trying to leave or enter the gate in a bad mood because of the time it takes. If a contractor quit or was fired, couldn't he just Xerox the letter and still be able to get on the range with an expired badge? A typed letter validating an expired badge is a joke. To have any form of security at Echo, could we please find another way? Your comments would be much appreciated. Thank you.

### ANSWER

Contract extensions continue to be a problem with regard to movement control. Because of your experience, I have directed that our present system be modified.

In the future, contracts that are extended for 30 days or less will be rebadged using the official visitor badge; those contracts that are extended in excess of 30 days will receive new contractors' badges. Thanks for your suggestion.

### QUESTION

**Civilian Employee** — I wanted to tell you I thought the air show was very good, but they overlooked one thing. They overlooked handicapped parking. When I was going out there I asked a police officer if there was handicapped parking available. He said there was at the hangar, but they were keeping people away from there for security reasons.

I believe we should have provided some parking for handicapped people. I know several who wanted to go to the air show, but because of the long walk or because they weren't able to get near anything, they didn't go. I think in the future we should try to provide some type of parking up close for them. It was a fantastic air show.

### ANSWER

We handled the handicapped on a case-by-case basis. Unfortunately some didn't get the word and we didn't reach everyone. We plan to take care of it in a far more effective manner next time. I'm glad you liked the show.

### QUESTION

**Civilian Employee** — I'm one of those old-fashioned people who would like to see the flag raised in the morning. However, unless you are almost at the corner of Knox Road and Blandy Avenue you can't see it.

If you are in the Michelson Laboratory parking lot, it's impossible to see the flag-raising ceremony. I'd like to see something done about either raising the flagpole or trimming the trees so that all of us can see Old Glory wave and hear the "Star Spangled Banner" played every morning. Thank you.

### ANSWER

I like your attitude. The trees have been cut.

## Air Gliding Escape System ejection seat tested

Because of the expertise that personnel of the Center's Aerosystems Department have in testing the air gliding escape system (AGES), the Naval Air Systems Command asked them to test a new concept of joining AGES with an ejection seat.

The first test took place over NWC's ranges on Oct. 23 and proved to be a complete success, with all test objectives met. Primary objectives in this test were to demonstrate that an aircrew member could be successfully recovered and that there was no damage to the parachute due to the ejection environment; and secondarily, that there was no damage to the seat so that it could be used again.

AGES is a ram-air steerable type of parachute. The glide ratio is three feet forward per one foot of descent, which makes it possible for the aircrewman to get into an area suitable for a safe landing.

The ejection seat used for the test was an SIII-S-3 seat for the TA-7 aircraft. The seat is built by Stencel Aero Engineering Corp. of Asheville, N.C.

After other minor modifications to the seat, the AGES parachute was put into the "head box" where the main parachute for the ejection seat is stored. An anthropomorphic dummy took the role of the aircrewman for the test.

The seat was ejected from a YF-4J aircraft piloted by Dick Wright, with ejection taking place at an altitude of 5,000 feet and a speed of 500 knots.

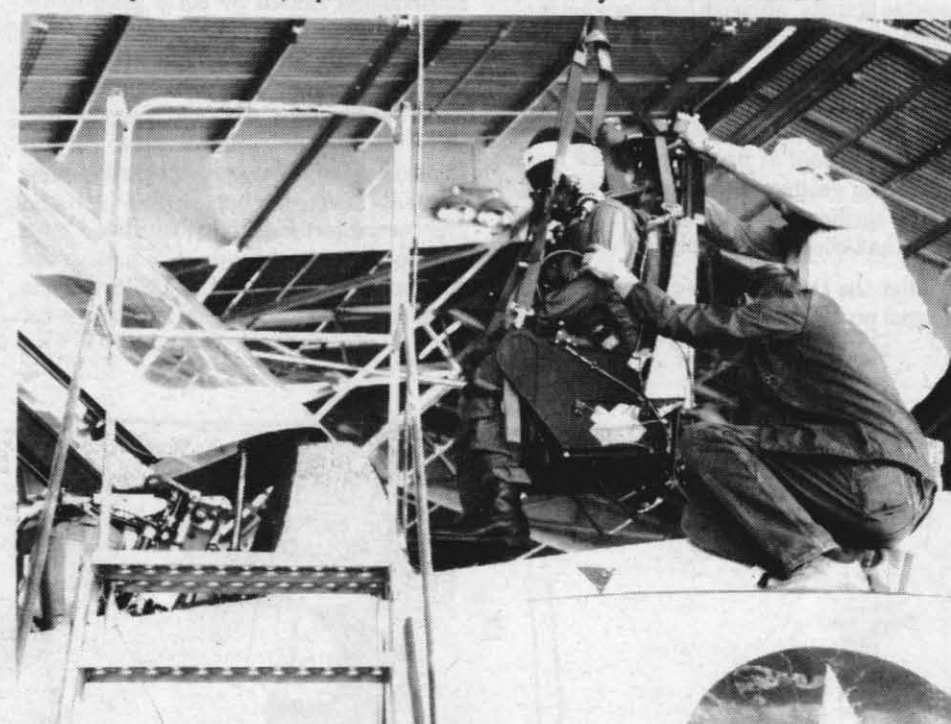
The drogue system stabilized the seat for 1.3 seconds, at which point the drogue chute

released from the seat and deployed the AGES chute. At the time of this deployment, the seat and aircrewman (the dummy in this test) separate.

For this particular test, a parachute was

also employed on the seat so that it could be recovered for further testing, although normally no parachute is so deployed.

Test results indicate that use of the AGES with an ejection seat is feasible.



**GETTING READY** — Russell Sanford (at right) an Aerosystems Department employee, and Leonard Wilson of the Stencel Aero Engineering Corp., carefully lower the ejection seat into a YF-4J aircraft to which the AGES chute is attached, along with the anthropomorphic dummy that will be testing the steerable parachute. The Aerosystems Department's expertise in AGES has been enhanced by Manley Butler, who is the project engineer responsible for developing the chute.



**OUTSTANDING EFFORT RECOGNIZED** — The Aug. 15 flood that resulted in a vast amount of damage in Michelson Laboratory occurred at an inopportune time for distinguished visitors who were here to attend the second of two sessions of a Department of Defense Strategy Conference. However, in spite of the necessity to evacuate the laboratory, the conferees were able to continue their important work — hardly missing a beat — due to the smooth transition that was made from the laboratory to the Commissioned Officers' Mess. Setting up the conference and then relocating it was the work of employees of the Program Coordinator's Office, headed by Vonnice Goss, who is shown at right accepting a Special Act Award for the smooth handling of this situation from Capt. K. A. Dickerson, NWC Commander, on behalf of the group she heads. Others who shared in this honor are (l.-r.) Natalie Harrison, Marge Versie, John Peterson, Kathryn Trigg and Bill Kirkpatrick. — Photo by PHAN Greg Hogan

## New schedule of charges set for time when tenants move out

The Housing Division has issued a new schedule of charges for materials and labor that will be assessed tenants when they move. The charges are based on engineering standards.

Tenants are encouraged to do the repair work themselves or to hire it done. Any work that is not done by the time of the tenants' move will then be assessed to them. The new charges became effective as of Monday, Nov. 19. They are:

Keys, \$2 each; locks, passage, \$25; key in lock, \$65; and mortise, \$105.

Yard, clean and rake, \$44 each; mow, trim lawn, \$38 each; trim shrubbery, \$11 each; and water yard, \$22.

Strip floors (no wax), \$10 per 100 square feet; clean kitchen range, \$33, clean refrigerator, \$22; clean plumbing fixtures, including tile, \$33; wash walls and cabinets, bathroom, \$22; wash walls and cabinets, kitchen, \$33; wash walls and cabinets, ser-

vice area, \$22; wash flat painted walls, 11 cents per square foot; clean entire living unit, \$55 per 500 square feet.

Replace shades (vinyl shade on wood roller), \$20 for a small and \$30 for a large; repair venetian blind, \$30; install government furnished blind, \$15; replace screen fabric, \$20; replace window screen, \$30; replace screen door, \$75; replace typical door, \$115; replace Hollywood Jr. door frame, \$50; replace Hollywood Jr. door, \$170; replace sliding screen door, \$65; replace garage personnel door, \$135.

Replace broken window glass, \$15 per pane plus \$1.30 per square foot; replace broken window glass (tempered), \$20 per pane plus \$6 per square foot; repair holes, first square foot, \$30 and \$6 for each additional square foot; replace scattered floor tile, first square foot, \$11 and \$2.50 per additional square foot; remove carpet tacks trip, first lineal foot, \$11, with 10 cents per additional lineal foot.

Charges for accessories include: towel bar, \$15; toilet paper holder, \$12; soap dish, \$13; toothbrush holder, \$12; glass shelf, \$22; shower curtain rod, \$20; shower head, \$25; tub stopper (pop up), \$50; toilet seat, \$35; device covers, \$4; and install smoke alarms, \$34.

## Return to use of traditional Navy terminology ordered

Mess decks, galley and barracks are just a few traditional terms that will be back in the Navy beginning on Jan. 1, 1985.

Secretary of the Navy John Lehman directed a return to nautical terminology recently, stating that traditional phrases be used instead of the less nautical substitutes introduced during the 1970s.

The following terminology changes will become effective on Jan. 1:

Barracks/Bachelor Enlisted Quarters (BEQ) instead of Unaccompanied Enlisted Personnel Housing (UEPH).

Bachelor Officers' Quarters (BOQ) instead of Unaccompanied Officer Personnel Housing (UOPH).

Mess Decks/Galleys instead of Enlisted Dining Facility (EDF).

Mess/Wardroom instead of dining room.

In addition, Sec/Nav Lehman emphasized the everyday use of Navy terminology such as ladder, topside, deck, and passageway in order to restore proper use of the nautical vocabulary inherent in the Navy's heritage.



## Auction of surplus government property scheduled on Dec. 4

A public auction of surplus government property has been scheduled on Tuesday, Dec. 4, at 9 a.m. in Warehouse 41 adjacent to the Defense Property Disposal Office.

Among the nearly 200 items that will be up for purchase by registered bidders will be 17 ft. recreational boats, trucks, oils and lubricants, bicycles, IBM electric typewriters, automotive parts, electric motors, tools, polishing machines, shop vacuum cleaners, oscilloscopes, signal generators, photographic equipment, and a drill press.

Those interested in taking part in the auction will be able to inspect the many items that will be up for sale on weekdays from 7:30 a.m. to 3:30 p.m., starting Monday, Nov. 26, in Warehouse 41, where a complete list of what is for sale can be seen, along with information on terms of the sale.

Registration for the auction of surplus government property will begin at 8 a.m. on Dec. 4. Bidders must be present and registered to bid, since no bids submitted by mail can be accepted.

Anything that is purchased can be removed on the day of the sale, provided that full payment is made in cash or by guaranteed instruments, such as cashier's checks, certified checks, or travelers' checks.

Purchasers will have until Dec. 11 to pay for and remove items before storage charges are applied.

Because the Defense Property Disposal Office is located within the interior security fence line of the Naval Weapons Center, prospective bidders who do not have access to that area must stop and obtain a pass at the main gate before coming on board the Center on Dec. 4.

## Geology research can result in mitigation of earthquake damage

The Applied Geoscience Research Office is the Center's mini-observatory for geologic phenomena; by knowing what is happening, the effects of such phenomena can be mitigated.

Much of California is awakening from a 20-year lull in earthquake activity and, in some cases, a 300- to several thousand-year lull in volcanic activity, depending on geographic location. Where earthquakes are concerned, prediction is still far in the future, but understanding the earthquake environment can save lives.

In 1981, a program began with a goal of mapping the active faults on the Center and the rest of the Indian Wells Valley. An "active" fault is a legal term that labels any fault that can be demonstrated to have slipped in the last 10,000 years capable of slipping again. Thus, in California, public planners and builders have to work around such faults.

In the first phase of the program, a series of maps for the Randsburg Wash areas has been produced. The most important fault studied and mapped there is the Garlock Fault. In the second phase of study, a series of maps for much of the Indian Wells Valley as well as part of the Coso Known Geothermal Resource Area has been drawn.

These maps are being used in several

## Dr. Colvard notes changes at NWC...

(Continued from Page 1)

predict, noting that "There's been so much growth in the DoD budget in the last few years that we're doing more contracting, but, as a percentage, I don't think we're really doing any more."

"I don't see a change in the role of the laboratory toward more contracting of technical work. I see the reverse; I see more use of the laboratories in doing technical work themselves."

He continued, "I think that leadership today is as good as it was in the past in the laboratories. There's a tendency to look back to heroes of the past, the Bill McLeans, but we'll look back 20 years from now and say 'Gee, where are the Burrell Hays?'"

"Burrell's a good leader; he's a hell of a good Technical Director. People remember him when he was a junior engineer and they won't give him credit until he's retired, when they'll look back and say, 'My God, he really was a great Technical Director!'"

"We're getting the same quality of Commanding Officers that we always got. I think, by and large, we get a good cut of Commanding Officers; we rarely get problem children in the labs."

Dr. Colvard noted there are obvious changes in the technology area, such as the computer, but pointed out that "We still depend on the people for ideas and information. That really hasn't changed. It never will, because that's what people are good at."

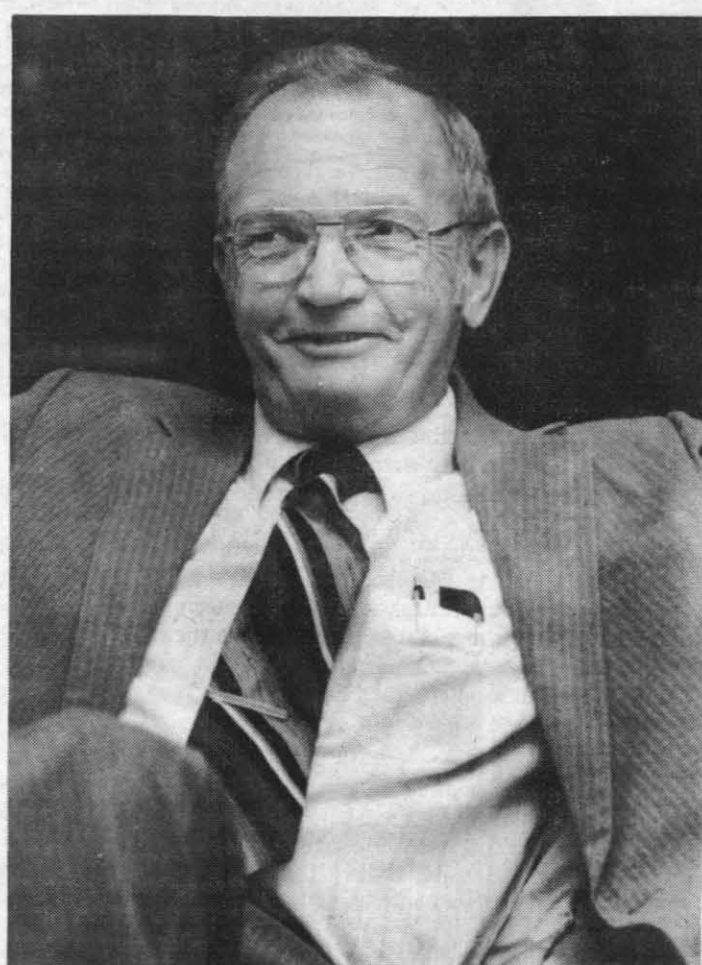
When asked if he agreed with the statements made by both Bob Hillyer and Burrell Hays that "It's got to be fun," he agreed.

"I think that's part of the China Lake character also," Dr. Colvard said. "Self confidence almost bordering on cockiness, an attitude that says, 'I'm going to enjoy the work.' You know, work doesn't have to mean something that's unpleasant, where you trade a portion of your life for money so that you can do something that you'd like to be doing if you didn't have to go to work."

"If the employment of your time is successful, I think it's also very satisfactory, it's very enjoyable, and, if you're not having any fun, you're doing something wrong."

He added, "I try to carry that same attitude in Washington, and frankly, it puzzles a lot of people around there who say, 'Why are you so happy? Don't you understand where you are?'" I think that comes from taking your job very seriously, but not taking yourself seriously.

"A good professional has a true balance between the self-confidence that allows you to make decisions and take responsibility, and the true humility that lets you recognize that you don't have any corner on knowledge, you're not the only person in the world



that's smart, and you may not be able to solve all the world's problems. When you go away, the world will keep right on turning.

Dr. Colvard emphasized that "You feel that your contribution is so important that you are sure to make it. You should feel it's important that you work at China Lake, but you've got to balance that with the idea that when you go away, the lab will still be run well. That gives you a kind of peace with yourself that you can enjoy."

"Do the best you can, that's all you can do," Dr. Colvard concluded.

monitoring of small earthquakes within the Indian Wells Valley. The Naval Weapons Center, the U. S. Geological Survey (USGS), and the California Institute of Technology participate.

Before the program began, there were only four working seismic sensors covering the local area; these had an earthquake location accuracy of about plus or minus 5 kilometers. The program has increased this number of instruments to 14 seismometers with a location accuracy of 1/2 kilometer, and the array is capable of allowing the location of earthquakes as small as a Richter magnitude zero.

Research is being conducted on how the local faults slip relative to one another. This is determined by measuring the energy released from the earthquake and how it propagates to the instruments. Earthquakes caused by earth plate movements and those caused by volcanic pressures can be discriminated by using this data.

The earthquake data is computerized daily from four seismographic drums located at NWC. These seismographs allow constant monitoring of seismic activity. The record to the activity is printed on a preliminary earthquake plot and distributed on Center. The USGS collects data from all 14 instruments but they do not

actually see the tracings. At a later date, the final earthquake plot is generated by the USGS and sent to NWC.

Also, as a result of the Oct. 1, 1982, earthquake sequence, a program in volcanic hazard monitoring was initiated. Deformation within the Coso Volcanic field coupled with volcanic earthquakes signaled the need to investigate the liquid rock beneath the volcanic field.

Volcanologists from the Cascade Volcano Observatory and Fresno State University have been monitoring the field and conducting research with the Applied Geoscience Research Office.

The NWC team also act as trouble shooters in regard to unusual cracks in buildings, water pipes and roads when engineering explanations cannot be found. An occasional geologic phenomenon even affects weapons testing and short term research is conducted to understand the problem as quickly as possible. Much of the results of this work is published in journal articles so that the techniques used will receive rigorous review and finally will contribute to techniques used by the public sector.

The office maintains an extensive library on local and regional geology and geophysics. The continual contact and collaboration with universities and other federal agencies allows for an extremely complete record of all new work in the area.

Members of the Applied Geoscience Research Office were invited by the Office of Naval Research to participate on the Navy Earthquake Risk Reduction Panel headed by Professor Karen McNally, a seismologist from the University of California at Santa Cruz. The panel designed a comprehensive approach for the assessment of earthquake hazards affecting naval operations world-wide.

While it is true that earthquakes cannot presently be predicted, many advances have been made toward understanding earthquake and fault behavior. The results of these advances allow people to protect themselves and their property against devastating earthquake and volcanic damage that could cripple national security.

## Guidebook prepared on handling hazardous waste material spills

Considering the amount of hazardous material trucked across the nation's highways, the number of accidents and spills is relatively small, but these do occur.

Trucks carrying chemicals do spring leaks, drums roll off of flatbed trucks or rupture, and traffic accidents take place. When such incidents happen, other drivers on the roads or residents of housing adjacent to roads and highways need to be aware of the hazards.

To ensure that all hazardous material spills are handled appropriately, the Department of Transportation publishes an annual "Emergency Response Guidebook" that contains detailed instructions for handling such incidents.

Information as to the substance spilled can be obtained from the bill of lading carried by the truck driver; if this is not available, the type of placard carried on the truck indicates the class of hazard (which then determines how it needs to be handled).

For any incident where questions may arise, the guide also contains a toll-free telephone number for the Chemical Manufacturers Association provided by its offices in Washington, D.C.

More than 700,000 copies of this guide are disseminated among Highway Patrol officers, other law enforcement officers, firefighters, public health officials and others who may be called upon following a hazardous material spill.

Spills or incidents occurring on an interstate or state road (any numbered road) fall under the jurisdiction of the Highway Patrol. Incidents that occur within a local jurisdiction (such as within the city limits of a city) fall usually under the cognizance of either the police or fire departments of that jurisdiction, and incidents that occur other than on numbered roads or in local jurisdictions become the responsibility of the Department of Fish and Game.

Anyone who notices that a spill is happening or that an accident has occurred with a vehicle carrying hazardous materials (as denoted by the small placard that such trucks are required by law to carry), should take several courses in action.

First, the truck driver should be stopped (if possible) to be told that something is leaking from the truck. If that is not possible, law enforcement officials should be notified of the leaking materials with a description of the truck and the route it is taking, along with its license number, if that can be obtained.

Persons who believe that a hazardous spill has taken place should remain upwind (if possible) to be told that something is leaking from the truck. If that is not possible, law enforcement officials should be notified of the leaking materials with a description of the truck and the route it is taking, along with its license number, if that can be obtained.

It's equally important that residents don't return to their homes until assured that it is safe to do so, and that drivers stay off roads closed because of a spill or accident until the road is officially reopened. Again, just because there is no odor and nothing visible is no sure indication that the hazard is over. Only a county health department can make such a determination.

## Cdr. Dyer honored...

(Continued from Page 1)

how to measure research and development productivity and the subsequent development of a formula for measuring the Naval Weapons Center's productivity was another of the areas in which Cdr. Dyer contributed.

Summing up his nomination of Cdr. Dyer for the Technical Director Award, the head of the Electronic Warfare Department wrote about the latest recipient of this honor: "His contributions have crossed department lines and spanned technology areas. He is recognized as an expert in his field, and has been instrumental in improving the 'vital link' between development centers such as ours and the Fleet."

Cdr. Dyer, a veteran of 14 years of service in the Navy is a graduate of North Carolina State University. Before being transferred to China Lake in October 1982, both he and his wife, Melda, attended the Naval Postgraduate School in Monterey, Calif.

Mrs. Dyer was employed here in the Contracts Branch of the NWC Supply Department.

For his distinguished service as NWC's Antiradiation Missiles Project Officer, Cdr. Dyer was the recipient this past May of a gold star in lieu of the second award of the Navy Commendation Medal.

This was based upon his supervision of the HARM integration effort on the A-7E Corsair II aircraft during aircraft integration and testing, systems troubleshooting and modification, and Fleet introduction of the weapon system.

## Guaranteed student loans available to eligible dependents

The Navy Relief Society is sponsoring an education program that will provide guaranteed student loans to dependent children or spouses of active duty military personnel, or to students presently enrolled in school who are members of an ROTC program.

Interested persons may write for information about eligibility requirements to the Navy Relief Society Headquarters, 801 N. Randolph St., Suite 1228, Arlington, Va., 22203.



**LOOK IN HERE** — Fellow, the drug sniffing police dog, communicates with his handler, Officer Tom Whalen of the China Lake Police Division, that he has located some drugs hidden in one of the conference rooms on the Naval Weapons Center. The drugs were concealed for Fellow to find during his annual recertification test. Throughout the year, Officer Whalen and Fellow inspect work areas on the Center that are selected on a random basis.

— Photo by PHAN Greg Hogan

## China Lake Police reports

On Monday at 10 a.m. a suspect driving a school bus that had been converted to a camper was stopped for a traffic violation. The police officer observed paraphernalia in the vehicle and called for Fellow, the drug-sniffing dog.

The dog came up with a hit; further searching revealed marijuana, more paraphernalia, and a hypodermic needle

(possession of which is illegal without a prescription). The suspect was transported to the Kern County jail and booked.

### STUDENT PICKED UP

Monday afternoon police were called to Murray Junior High School because a 14-year-old boy was found in possession of a razor blade. He was released to his parents, with follow-up scheduled by juvenile authorities.

## Employee in spotlight

## Son of NWC scientist off to Air Force Academy

The Department of Defense gained both a highly qualified scientist and a future Air Force officer when Guenter Winkler came to this country from his native Germany under the Defense Scientist Immigration Program in 1966.

Dr. Winkler has had a distinguished career at NWC that has led to his current position as head of the Physics Division in the Research Department (although his training was in electronic engineering). He has held this position since August 1979.

Martin, son of Dr. Winkler and his wife, Barbara, is at the Air Force Academy as a cadet, training to become a pilot. The Winklers say with pride that 18-year-old Martin made all the necessary contacts and wrote all the needed letters of applications that resulted in his being nominated for the Academy by Congressman Bill Thomas.

"Martin's first spoken word was the German word for airplane," reports Dr. Winkler. "and he has been fascinated by jet airplanes since he was in diapers." Martin's decision to become a pilot and attend the Air Force Academy was made while the family was in Japan, where Dr. Winkler was serving as electronic warfare advisor to the Commander, Seventh Fleet, under the Naval Science Assistance Program from late 1977 to mid-1979.

The time spent in Japan, where Dr. Winkler was stationed at Yokosuka, "was extremely valuable," he says, "because it opened my eyes. We develop hardware here by highly specialized engineers, and then topnotch military officers test it here. After that, we put it out into the Fleet to be worked by people who don't have the same amount of training."

He says that he brought back with him a number of ideas about the needs of the Fleet, ideas that his group is currently working on in the fields of RF and microwave technologies.

Before going to Japan under NSAP, Dr. Winkler worked mainly in the field of missile guidance. He worked on RF front ends for missile guidance seekers, then on data links, before becoming head of the Advanced Technology Branch in the Electronic Warfare Department and program manager for the electromagnetic radiation source elimination (ERASE) program.

Although he became interested in electrical engineering by his early teens because of his exposure to hydroelectric power plants — his father was regional manager of a utility company in the Tyrol,

Austria — that interest turned more to the communications aspect of electronic engineering by the time he was ready to enter the Munich Institute of Technology for his university training.

On receiving his master's degree in 1961, he applied for a Fulbright grant to come to the United States, but, before that came through, he was offered an assistant professorship at the university while he was studying for his doctorate. "I enjoyed teaching," Dr. Winkler says, adding that he particularly enjoyed teaching the various laboratory classes.

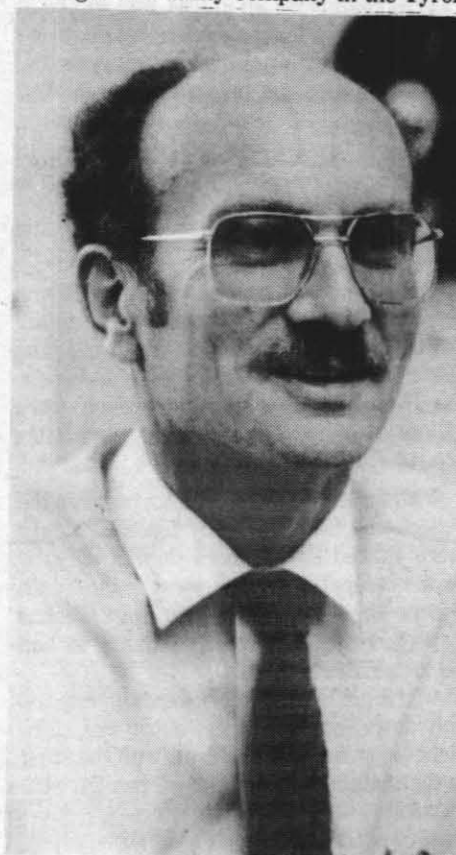
On completing his doctorate in electronic engineering in 1965, he again made application to come to the United States, but this time under the Defense Scientist Immigration Program, and was given the opportunity to select his place of employment.

A definite factor in his choice of China Lake was the nearby mountain range where he could ski (which, he says, he still enjoys enormously, along with backpacking and fishing in the High Sierra, water skiing, and wind surfing).

While still in Munich, he met Barbara, a native German. They were engaged before he left, and, as soon as he had gotten settled at China Lake and accumulated the plane fare, he sent for her. They were married in Ridgecrest. Besides Martin, they have a daughter, Annabel, who is a sophomore at Burroughs High School. Both Martin and Annabel were born in the local area.

The Winklers' intention to remain in the United States was underlined by his acquiring U.S. citizenship in November 1975. However, they have not burned bridges behind them and continue to maintain contacts with their many relatives and friends in Germany and Austria.

Since Martin left for Colorado Springs in July, Mrs. Winkler has been delving in the real estate business in Ridgecrest.



Guenter Winkler

## MIKE'S LAB by Bill Fawin

