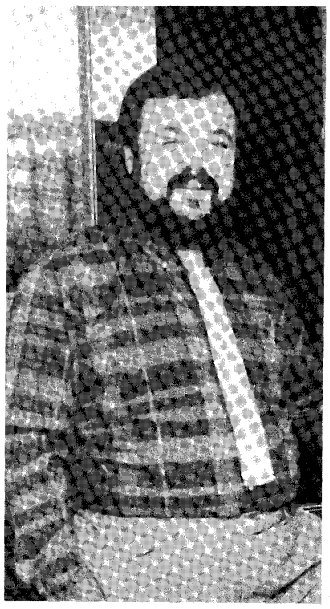
Volume 32 Number 12 NAVAL AIR DEVELOPMENT CENTER, WARMINSTER PA. December 1987

NADC to operate DoD magnetic tape lab



Gary C. Feuer

By Jim Kingston

The Center will soon be able to boast operation of another unique RDT&E facility. It is the only Department of Defense (DoD) magnetic media Research, Development, Test, and Evaluation laboratory and its role will be to support all present and future DoD data storage requirements. The new facility, scheduled to be completed and fully operational in early 1988, will be responsible for characterizing new media, generating technical specifications, developing modern test hardware, and conducting both qualification and acceptance testing. NADC's function as Technical Agent will support the consolidated tri-service procurement activities of the Defense Electronics Supply Center (DESC) in Dayton, Ohio.

Specification, procurement, and testing of high quality magnetic instrumentation tape had previously been performed by the General Services Administration (GSA) before its test laboratory was closed. At that time there was only a single source of all magnetic instrumentation tape and there was no federal stockpile of this vital commodity.

NADC is also a prime user of magnetic instrumentation tape in anti-submarine warfare (ASW) applications. The Center will be in the unusual position of testing and evaluating new magnetic tape to be used in its Update IV avionics program for the P-3C ASW aircraft.

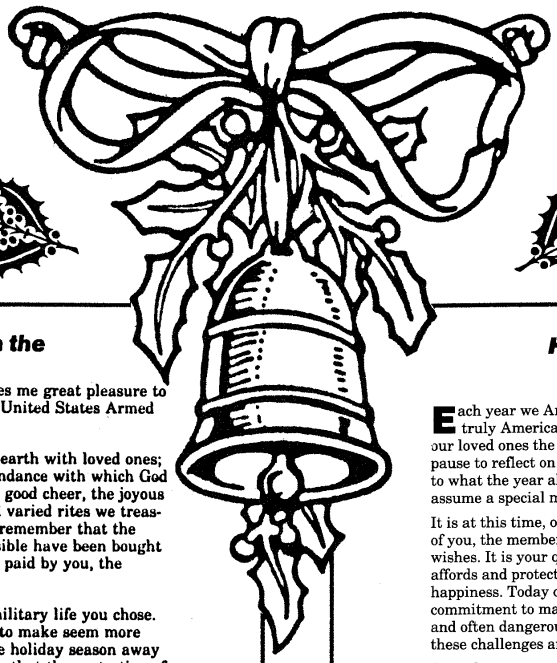
The new laboratory occupies approximately 5,000 square feet in Building #1 and will cost an estimated $2.5 million for construction plus an additional $1.5 million for highly specialized new equipment.

According to Gary C. Feuer, electronics engineer, the facility will have two laminar flow "Clean Rooms" — both a large Class 1000 and a smaller Class 100 — as well as a magnetics laboratory, an optics lab, tape storage, a security vault and strong room. Feuer said the laboratory will function with approximately 9 or 10 people including both NADC and contractor personnel.

The Center has already updated and revised the technical specifications for

continued on page 4

Happy Holidays



Holiday Message From the President

As Americans celebrate this joyful season, it gives me great pleasure to send heartfelt greetings to the members of the United States Armed Forces.

Traditionally, this is a time to gather around the hearth with loved ones; to celebrate and give thanks for the peace and abundance with which God has blessed this great land. But in the midst of the good cheer, the joyous reunions of families and friends, and the many and varied rites we treasure in these special times, it is appropriate also to remember that the freedom and security that have made them all possible have been bought for us at tremendous price. That price is still being paid by you, the guardians of our liberty.

All of you could have taken paths other than the military life you chose. During Yuletide the sacrifices you are called upon to make seem more acute, most especially for those who must spend the holiday season away from home and family. But each of you understands that the protection of freedom and democracy is a full-time job, that our readiness and vigilance must never be relaxed. The professionalism and spirit with which you maintain our defense are sources of deep and abiding pride in the hearts of all Americans. To you who willingly shoulder that burden, and to your families who stand beside you as you carry out your vital duties, I send the thanks of a grateful nation. No matter where you serve, your countrymen think of you.

As your Commander in Chief, I am proud to salute you. Nancy joins me in wishing you and your loved ones a wonderful holiday, and health and prosperity in 1988. God bless you, and God bless America.

Ronald Reagan

Ronald Reagan

Holiday Message from the Secretary of Defense

Each year we Americans take special comfort in the holiday season. In a truly American tradition, we gather with family and friends to share with our loved ones the joys and happiness that this special time brings all of us. We pause to reflect on the happiness and successes of our past and we look forward to what the year ahead may bring. At this time, peace, joy and happiness assume a special meaning for all of us.

It is at this time, our traditional holiday season, that I wish to extend to each of you, the members of our armed services and your families, my very best wishes. It is your quiet professional dedication and spirit of self-sacrifice that affords and protects the basic freedoms we celebrate with such joy and happiness. Today our great nation remains strong and free because of your commitment to maintain peace through strength. These are indeed challenging and often dangerous times. Much has been asked of you, but you have met these challenges and have given your loyalty and skills in full measure.

As is the very nature of a profession which demands constant vigilance, some of you will spend the holidays at sea or on watch or otherwise separated from your families and friends. Take comfort in knowing that the American people recognize and appreciate the extra measure you are giving to protect our great country.

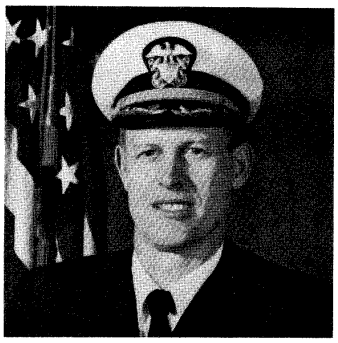
America's armed forces have a vital responsibility. As a people, we have dedicated ourselves not only to preserving our own freedom, but to helping our friends and allies secure and safeguard their liberty. Your uncompromising professionalism and dedication to duty enable us to keep these promises to our friends, and to remain a bulwark against the enemies of freedom. For you, peace has a special meaning.

Whether you are celebrating this special time with your loved ones or at a lonely watchpost, you are in the thoughts of Americans everywhere.

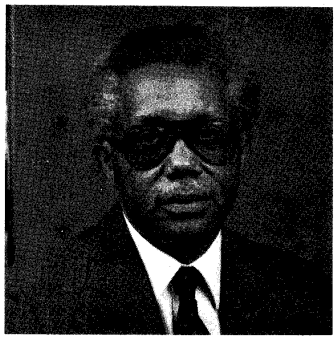
I am proud to be able to wish you a joyful holiday season and a Happy New Year. May the spirit of peace, joy and happiness that we celebrate be fully realized for each of you in the year ahead.

Frank C. Carlucci

Command Corner



CAPT Curtis J. Winters
Center Commander



Guy C. Dilworth, Jr.
Technical Director

To all hands:

Last year the Center published goals to make our safety and health program more effective. Here are the results of our efforts and new goals for FY-88.

Our first goal was to reduce our overall accident and injury rate by 10%. Here we have shown both significant improvement and poor performance. Our total number of injuries did, in fact, decrease by 20%, but, lost time injuries decreased by only 6% and workdays lost from these accidents actually increased 61%. In light of these figures, this year's goal will be an additional overall reduction of 10% in our injury rate, and a 25% reduction in lost workdays. Supervisors in particular must be increasingly vigilant in ensuring that their areas are as free from hazards as possible, and that their people perform all tasks in a safe manner.

Our second goal centered around the establishment of a coordinated Hazardous Material/Hazardous Waste program. This was done by appointing a program coordinator, publishing a revised program instruction, and establishing a coordination control center to ensure proper accountability for all chemicals entering or leaving the Center. However, many of our workcenters continue to maintain excessively large stocks of chemical materials and obsolete or no longer needed items. To alleviate this problem, I have set as a goal a 15% reduction in chemical inventories. Exceptions will be made in workcenters where supervisors can verify that all items on hand are necessary for normal operations. During July 1988, all departments will conduct a self-inventory of their holdings, and the Safety Manager will advise me of any group falling short of this goal.

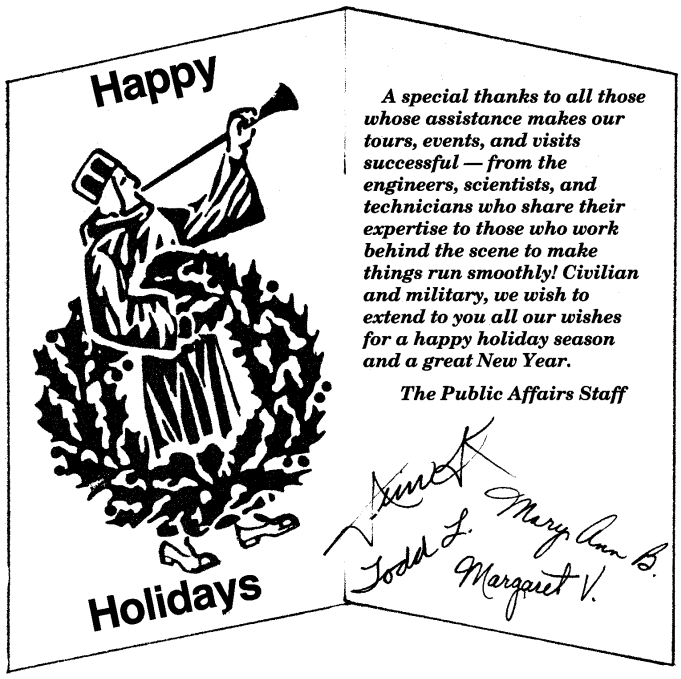
Last year's final goal dealt with improving safety and health training. Again progress was noted but emphasis is needed to ensure that employees attend all required training, and that supervisors take a more active role in providing and documenting training for their people. To measure compliance with this objective, the Safety Manager will include a review of safety training during routine workcenter inspections.

This year, to increase our awareness of the importance of safe performance, we are adding a goal. The annual evaluation of all personnel, particularly supervisors and managers, should reflect personal accountability for occupational safety and health with appropriate recognition for superior or deficient performance. While I do not expect a separate rating element to be developed for this item, I do expect it to be addressed as a measure of overall performance.

Have a healthy and safe New Year!

C. J. Winters
C. J. WINTERS
Commander

GUY C. DILWORTH
Technical Director



A special thanks to all those whose assistance makes our tours, events, and visits successful — from the engineers, scientists, and technicians who share their expertise to those who work behind the scene to make things run smoothly! Civilian and military, we wish to extend to you all our wishes for a happy holiday season and a great New Year.

The Public Affairs Staff

Todd L. Mary Ann B. Margaret V.

If the SOC fits

By Robert Janes

A major focus of the Navy's Standards of Conduct (SOC) is on contracts — ensuring that we obtain the maximum degree of competition in the award of a contract, and that we remain fair thereafter when administering the contract. I know of two instances in the last six months where, for one reason or another, contract coverage of a particular function had unexpectedly disappeared and the cognizant NADC engineer had been forced to hastily seek replacement coverage. In both instances, the engineer bypassed the Contracts Division because of perceived delays in the contract process, and instead simply arranged to have the work performed under some other existing contract. In each case, this resulted in a complaint from a competitor contractor, who claimed that the replacement contract did not encompass the services being provided. In one case the complainant was absolutely right, and we had no choice but to stop the work, and indeed did not pay the contractor for the work already performed. It was an embarrassing situation, and one that could very well have resulted in disciplinary action being taken.

When you find yourself in a situation where you need immediate contract coverage, I urge you to work with the Contracts Division, which will do everything possible to accommodate your needs in a legal manner. Obtaining services under a contract which does not provide for such services in a statement of work or similar contractual document is illegal, and is a sure bet to evoke complaints from competitors if they learn of it. Under normal circumstances, it can often take a very long time to award a contract, but where emergencies arise, the Contracts Division is prepared to move rapidly to accommodate your needs.

Energy Savers

• Keep appliances in good working order so they will last longer, work more efficiently, and use less energy.

• When buying appliances, read labels carefully. Compare energy use information and operating costs of similar models by the same and different manufacturers. The retailer should be able to help you find the wattage of the appliance.

Command holiday message

As we approach this joyful holiday period, we wish you, the military and civilian men and women at the Naval Air Development Center, our thanks for your support.

There is something so very special about this season that, as it approaches, no matter how the rest of the year may have gone, there is a renewed spirit of hope and good will.

It is more than departmental parties, or a few days off from work. It is a time when people of diverse backgrounds and beliefs can share ideas and friendships, a time that brings us together, and lets us appreciate who we are, where we are from, and what is really important to us.

As much as the festive side of Christmas and Hanukkah is an important part of our lives, even more important are the thoughts and concerns for our fellow man which should be continued throughout the year.

We send you, and your families, our best wishes for the Holiday Season and for health and prosperity throughout the New Year.

C. J. WINTERS
Commander

GUY C. DILWORTH
Technical Director

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Commander, NADC ..... **CAPT Curtis J. Winters**
Technical Director ..... **Guy C. Dilworth, Jr.**
Public Affairs Officer and Editor ..... **James S. Kingston**
Associate Editor ..... **Mary Ann Brett**
Assistant Editor ..... **JO2 Todd Lufkin**

Take H.E.E.D.

NADC-developed device saves two lives

By Mary Ann Brett

"It feels great to know we actually made a difference," said George Gillespie of himself and the other employees at the Center who helped develop the Helicopter Emergency Egress Device (HEED). Gillespie, of the Life Support Engineering Division, is NADC's HEED program director.

According to a Pacific fleet message, this NADC-developed device played an instrumental part in the survival of at least two Navy aircrewmen after an H-46 helicopter crash in the western Pacific. This was the first accident reporting the use of HEED while escaping from a sinking aircraft, resulting in saving two lives.

The message stated, "The co-pilot and second crewman both used HEED to escape. Following impact, the co-pilot was pinned in his seat by debris from a collapsed instrument panel . . . He was stunned and disoriented but . . . had no problem pulling the (HEED) bottle from his zippered vest . . . The second crewman in the cabin section was thrown from his seat to the cabin floor. He was on his knees in chest deep water as the aircraft sank . . . Dazed and disoriented . . . he reached for his HEED bottle . . . "

In both cases, the HEED bottle of compressed air produced a calming effect allowing the crewmen time to become oriented and concentrate on egress procedures.

Gillespie explained that HEED is basically a modified version of commercially available scuba gear. The small tank, with its regulator on the top, weighs 1.5 lbs. and measures 15 inches in length and 2.5 inches in diameter. Although somewhat bulky, the tank is carried in the survival vest so it is readily accessible. Gillespie said this amount of bulk is considered an acceptable trade-off for added safety.

Developed in 1984 and available to fleet-deployed Navy and Marine Corps helicopter squadrons in December 1986, HEED provides three minutes of air in 55° water at a depth of 20 feet.

Gillespie described what typically happens, "Unlike other military aircraft, helicopter pilots do not have an option to eject because of the rotors overhead. Also, helicopters have little inherent buoyancy," he said. "More than any other aircraft, they 'ditch' or sink rapidly and tumble in the water because of their top-heavy structure." Survivor testimonies have stated that this situation, combined with cold temperatures, disorientation, panic, and sometimes very dark surroundings becomes overwhelming. ". . . A minute's worth of breathing time could make the difference between life and death." HEED was designed in response to this need.

NADC helicopter pilot LCDR Jamie Burd of the Vertical Flight Office logged nearly 2,000 hours in H-46 helicopters during the late 70's and early 80's. He recalled, "I've lost some good friends in helo accidents and I'm sure HEED could have made a difference."

Photo by NADC Photo Lab

TAKING HEED — ***Members of the Crash Safety and Survival Systems Branch inspect HEED units. Identical HEEDs recently saved the lives of two aircrewmen.***

Sailor and Blue Jacket of the Quarter named

By JO2 Todd Lufkin

Sailor of the Quarter

NADC's Sailor of the Quarter (SOQ) for the third quarter of 1987 is HM2 Mark Butler of the Air Vehicle and Crew Systems Technology Department (Code 60).

Butler has been in the Navy for 6½ years and here at NADC just over 2 years. "I like the Warminster area," he said, "it's great for sightseeing (Philadelphia, the Poconos, the Jersey shore), although the area is a bit expensive." Prior to being assigned at NADC, he was stationed at VS-29, NAMI-Pensacola and Great Lakes.

"Basically, I joined the Navy because I was looking for an education," explained Butler. He became a corpsman because at the time he was interested in the medical profession.

The 25-year-old native of northern Virginia was "happy and surprised" that he made SOQ. "I had just made second class, and competed with people with a lot more seniority," stated Butler, "Hopefully this will help me when it comes time to go up for first class."

Butler works at the Dynamic Flight Simulator (DFS) where he deals with aviation research for new flight gear and human testing in the environmental chamber. "We test gear to see if it is adaptable for the flying community," he explained, "we give suggestions and do further testing—some projects take longer than others."

The SOQ stresses that a person should "always look up, things will always get better . . ."

Butler plans on putting in his 20 years and will then decide where he wants to go from there.

He and his wife reside in Warminster.

Photo by NADC Photo Lab

HM2 Mark Butler

Photo by NADC Photo Lab

MSSN Shawn Sebring

"Jack of the Dust" is Blue Jacket of the Quarter

By JO2 Todd Lufkin

NADC's Blue Jacket of the Quarter (BJQ) for the third quarter of 1987 is MSSN Shawn Sebring. This 21-year-old sailor has been on Center for 2 years of the 2½ years he has been in the Navy.

Sebring was excited about making BJQ, "it just goes to show," he said, "that hard work does pay off. In the long run, people do notice what you do. If *you* work hard, the *Navy* will work hard. It works both ways."

A native of Columbus, Ohio, Sebring joined the Navy because he wanted to travel and see the world. He became a mess management specialist (MS) because he loves to cook and his ultimate goal is to become a professional chef.

Sebring works at the Galley as the "Jack-of-the-Dust" (storeroom custodian). He explained that he is in charge of fresh and frozen produce and dry goods, ordering and picking up goods, rotating stock and ensuring that the cooks have all the necessary ingredients for their recipes. "It's a demanding, hectic job," he said, "I work from 6:30 a.m. to 3:00 p.m., usually with no lunch. I go to the Philadelphia Naval Shipyard for dry goods and supplies weekly, receive fresh produce weekly and frozen produce monthly."

In his free time this BJQ lifts weights six days a week and runs two miles three times a week. He explained his philosophy: "Everyone in the service should be in top physical condition. It helps you mentally to do your job better. It also helps your social status—if you feel better about yourself, others will feel better about you."

Sebring's plans for the future include attending Bucks County Community College and receiving an Associate's or Bachelor's degree in Food Service/Hotel Management. "I'm also looking forward to making petty officer, spending the next 18 years in the Navy, and retiring in Bucks County."

Falloon takes 1987 football championship

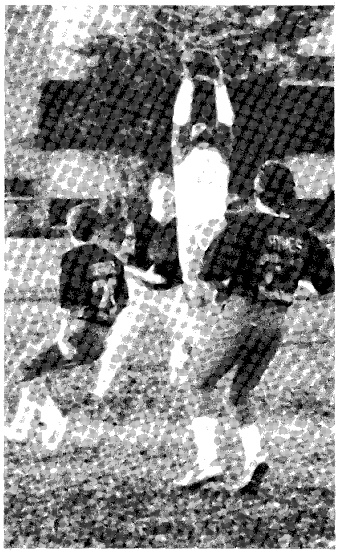


Photo by Phil Richardson

The Granfalloon's Steve Fleischut rises above the Renegades in the championship game.

By Mark Lilly

Well, the bad guys won the NADC Football League championship game. Just kidding. Most of you know of my bias towards the Renegades, who opposed the Granfalloon in the final. The game had all the trappings of a classic matchup: the two top defenses, a quarterback duel; Weiss versus Hynes, the physical matchup of Renegades speed versus Falloon height, and intangibles such as the Renegades hunger for a championship versus a vastly more experienced Falloon squad. However, as so often happens in big games, the actual contest did not live up to the expectations. Even so, the final score was close and the amount of disagreements on the field was minimal.

Now, if I told you that the Falloon and the Renegades had come into the contest averaging 27 and 23 points per game, respectively, and then I told you that the Granfalloon's Mike Bubb had scored all the points in the game. Well, you might conclude that Mike must be one of the greatest players in the history of the league, right? Well, he has caught his share of passes but let's not retire his number just yet. Bubb caught the winning touchdown on the Falloon's opening drive, and that score held to help them win their third consecutive championship and their fifth in the last eight years. Thus, if you missed the first two minutes of the game, you missed all the scoring as the Falloon held on to beat the Renegades 6-0.

The weather conditions for the game were horrendous. The air temperature was below freezing and a 20 mph gust blew for the entire game. I guess we were lucky there wasn't a driving snowstorm (Does anyone like the idea of building a dome over Szymanek next year?). The wind played a big factor in the game. It constantly misdirected the ball, froze players' fingers, and made watching the game an ordeal.

The Falloon won the toss and elected to receive. The Renegades booted the opening kickoff into the driving wind which summarily pushed the ball out of bounds. The Renegades were assessed a penalty and had to re-kick. The second kick also went out of bounds — on the Renegades 25 yard line. The Falloon took possession at that point and two plays later, Falloon quarterback Tom Weiss found Bubb at the back of the end zone for a 15 yard score. A missed extra point made the score 6-0.

That about sums up the scoring for the game. However, the Renegades did have a golden opportunity in the first half. The Renegades' Jeff Price intercepted a Tom Weiss pass at about midfield. Price then eluded three defenders before getting tagged on the Falloon five. On the ensuing play, quarterback Steve Hynes threw a strike into the gut of a Renegade receiver, whom we'll call Clutch Cargo. Clutch then inexplicably dropped the potentially tying touchdown pass. Three more tries and the Renegades still came up empty.

Now, I'd like to add some final comments on the championship game. The teams, as a whole, did not play particularly well. This was primarily due to the playing conditions. However, the Falloon had some individual performances whose play proved to be the decisive factor in the victory. First and foremost, there was Tom Weiss who put on a clinic from the rusher's position. Weiss stopped an incredible eleven Renegades' plays (4 sacks and 7 blocks) at their inception, adding to his ever-growing mystique as The NADC Sports Legend. There also was seasoned veteran Pat Finnegan who rebounded from a bad semifinal game against the Barking Spiders to intercept two, and almost three, of Steve Hynes' passes. And last but certainly not least, there was the omnipresent Bubb who caught the game's only touchdown. Now, only one more thing needs to be said. Congratulations, Granfalloon - 1987 NADC Football League champions. Why do I get this feeling of deja vu, for what seems like the fiftieth time, when I say the words Granfalloon and champions in the same sentence?

Photo by Phil Richardson

Falloon: (standing) Mike Bubb, Carlton Brown, Buzz Cerino, Gary Marinelli, Rick Werrell, Pat Finnegan; (front) Tom Weiss, Steve Fleishut, Matt Geyer, Matt Brown. (Missing: Mike Warren)

Photo by Phil Richardson

The Renegade's ever-elusive Jerry Costanzo returns an interception against the Granfalloon.

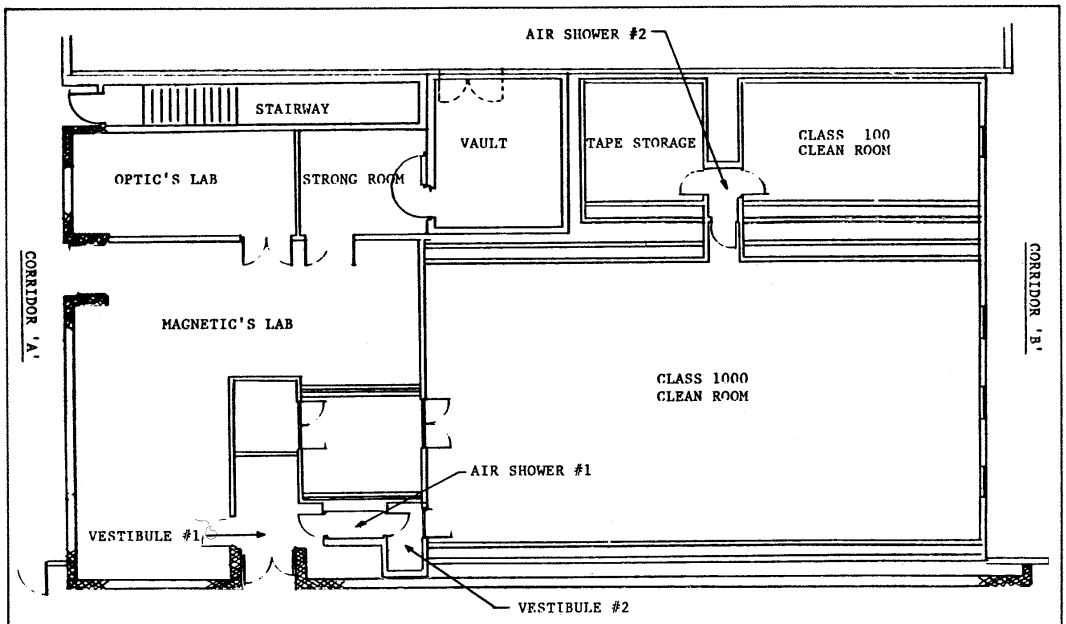
NADC to operate DoD magnetic tape lab

continued from page 1

analog instrumentation tape as well as tape reels and hubs. In addition, a computerized testing system to measure electrical performance parameters has been developed including a modular system for multi-channel drop-out testing.

While there is presently only a single source supplier of all instrumentation tapes DoD-wide, NADC is in the process of evaluating a second source. The lab uses four categories of tests in evaluating magnetic tapes: visual inspection, electrical performance, physical properties, and magnetic properties.

New parameter tolerances, sampling rates, and test methods will be included in the specification updates after the new facility is operational for a sufficient time to establish an adequate empirical data base to support tighter, but realistic tolerances.



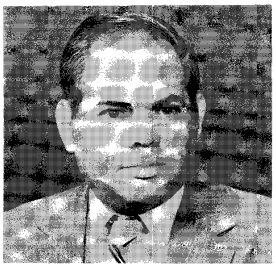
MULTI-MEDIA MAGNETIC TAPE LABORATORY

VIEWPOINT

Question: Based on recent media attention and information, how do you feel about the possibility of mandatory drug testing for federal employees in sensitive/critical positions?

Photos by Mary Ann Brett and JO2 Todd Lufkin

Prepared by Mary Ann Brett and Margaret Vigelis



"Reflecting on the current political environment in this nation, I consider the possibility more of a probability. A breakthrough in automated *real-time* analysis would be helpful to speed the process, otherwise they are going to have a hard time getting the required samples out of people. Overall, drug testing seems to be an issue whose time has come."

Stuart Simon

"I think it's an invasion of privacy and should not be initiated. If tests are to be conducted they should be mandatory for the private sector not just government employees."

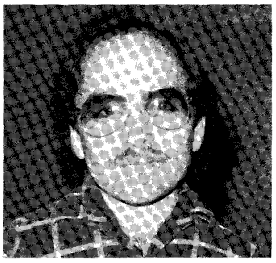
Janice Stibling

"No problem, until they consider Excedrin a drug."

Chris Andersen

"If drug testing is done correctly, I see no problem with it. However, there must be adequate controls and verification to assure that no mistakes in testing are made. The career of a good employee could be easily ruined by even the suspicion that he was using drugs."

Otis Johnson



"If it is decided that they will test for drugs, it should be for everyone. Not just a few."

Gerry Gallagher

Football fans vote for All-Stars

By Mark Lilly

Now for something completely different. As most of you know, the NADC Football League does not have an All-Star game. Thus there is no way of recognizing some of the league's better players. In lieu of that fact, I have taken it upon myself to conduct a fan balloting poll similar to Major League Baseball's All-Star selection process. During each game of the regular season, I discreetly handed out ballots to each of the multitude of fans. After the fans voted for their favorite players, I then, just as discreetly, collected the returns. The votes were tallied and below I present the results in alphabetical order (The top vote-getter in each category is denoted by an asterisk).

OFFENSE

Quarterbacks (Top Two)
- Steve Hynes, Renegades
- Tom Weiss *, Granfalloon

Receivers (Top twelve)
- Matty Brown, Granfalloon
- Mike Bubb, Granfalloon
- Jerry Costanzo *, Renegades
- Mike Costanzo, Barking Spiders
- Mike Elser, Renegades
- Steve Fleischut, Granfalloon
- Scott Fowler, Barking Spiders
- Bob Geyer, Dragons
- Paul Krebs, Lasers
- Jeff Price, Renegades
- Bill Schork, Barking Spiders
- Mike Warren, Granfalloon

DEFENSE

Rushers (Top One)
- Tom Weiss *, Granfalloon

Linebackers (Top six)
- Carlton Brown *, Granfalloon
- Matty Brown, Granfalloon
- Jack Connors, Barking Spiders
- Steve Hynes, Renegades
- Scott Lassen, Renegades
- Jeff Price, Renegades

Defensive Backs (Top six)
- Jerry Costanzo *, Renegades
- Mike Elser, Renegades
- Steve Fleischut, Granfalloon
- Paul Krebs, Lasers
- Bill Schork, Barking Spiders
- Joe Wolfe, Barking Spiders

One last comment. A number of my faithful readers have noticed that I did not play a great deal during the 1987 season. Well, I'd like to shed some light on that observation and suggest a strategy for the 1988 season. Now, I realize and fully admit that I'm not one of the better players in the league. A smart defense will realize that and, when I finally enter the game, they should switch their coverage, from me, to one of our more dangerous receivers. I promise not to catch any passes — honest.

Alas, it is time to sign out for the 1987 season. This reporting business can be fun, especially since it lends itself to unilateral bantering. However, I do wish the job paid more. See you next season. The End.

Commander Salutes

Elliott Rissler and **Leon Smith** (Code 40): For outstanding assistance to the Office of the Under Secretary of Defense in reviewing and evaluating many proposals for the first phase of the Microwave and Millimeter Wave Monolithic Integrated Circuits program.

Steven Ganop (Code 40): For outstanding technical contributions to the Navigation Improvement project in the Pacific Fleet.

Jerry Polin (Code 50): For a briefing on proper Naval business procedures to Fairfield Industries.

Matthew Berenato and **Brian Calderwood** (Code 70): For contributions to the Consolidated Automated Support System source selection effort.

Scott Perry (Code 20): For contributions and performance to the Aerial Target Systems Program under the Naval Scientist Training and Exchange Program.

Ron Garber (Code 60): For valuable assistance to the Naval Air System Command regarding the SH-2F helicopter fuel tanks.

LT Richard Erickson (Code 60): For outstanding efforts as Agenda Chairman for the 21st Fleet Air Introduction/Liaison of Survival Aircrew Flight Equipment Working Meeting.

John Connors (Code 60): For dedicated assistance to the Naval Air Systems Command on the C-2A(R) ADDS/SEALS Project and the M/CH-53E Anti-Static Rescue Hoist Cable development program.

Jerome Bortman (024), **Michael Mocenter** (Code 50), **John Scott** (094): For technical assistance to the Hanover Police Department.

Stephen Campana, Michael Hess, George Shamlian, Harvey Sokoloff (Code 50): For outstanding technical support to the F-14 Infrared Search and Track System.

Robert Finkelman (Code 05), **Alan Victor** (Code 30), **Harry Heinzl** (Code 50): For significant ADP support to the Chief of Naval Research and hosting the ADP Steering Committee.

Michael Kijesky (Code 50): For performance as Team Leader of the Acoustic Subteam for the P-3 Update IV Program Source Selection.

Gary Davies (Code 70): For extensive contribution as an evaluator on the Software Subteam of the P-3 Update IV Program Source Selection Board.

Kathleen Gause (03E): For a presentation to the Advanced Equal Employment Opportunity Counselors Course.

Eugene Lehman (20): For performance as the BQM-126A System Safety Engineer at the Naval Air Engineering Center.

John Wood (20): For leadership and technical excellence on the BQM-126 Aerial Target Program.

Dr. Gilbert London (Code 60): For performance and contributions as a member of the ECR/2B Proposal Evaluation Team.

Dunn goes to Washington

Photo by JO2 Todd Lufkin

Loretta Dunn

By Mary Ann Brett

Contract negotiator Loretta Dunn was selected for an NSTEP assignment to the Assistant Commander for Contracts at the Space and Naval Warfare Systems Command in Washington, D.C.

Dunn said the one-year assignment beginning in February '88 sounded interesting and fun. Jokingly she said, "The most challenging part of the assignment will be finding an apartment in D.C. and, then, adjusting to the faster-paced business and social atmosphere."

Dunn has been at NADC's contracting office nearly six years. "I like the people contact," she said, "I'm a people person and I'd be miserable staring into a machine all day long."

She expects this new position to provide her with a different perspective, a new and broadened overview with exposure to major weapon systems, acquisition plans and training. "Whatever I learn," said Dunn, "I'll share with my co-workers here and we'll all benefit."

Designated Drivers, Alternative Drinks

Who says drinks for designated drivers have to be dull? Mock margaritas and "virgin" or "bloodless" Marys are two popular non-alcoholic alternatives.

These drinks contain basically the same ingredients as the originals, minus alcohol. And you can still walk a chalk line and touch your nose blindfolded when you're done.

Mock Margarita

2 cups bitter lemon or lime soda
2 tablespoons sugar
Juice of ½ lime
Salt
Crushed ice

Freeze soda in an ice cube tray; Blend lime juice, sugar and frozen soda thoroughly. Rub lime around rim of glass, dip in salt. Pour mixture over crushed ice in salted glasses. Makes two servings.

Bloodless Mary

6-oz. can tomato or mixed vegetable juice
¼ cup club soda
½ teaspoon lime juice
Dash worcestershire sauce
Dash hot pepper sauce

Shake or stir to blend ingredients. Add ice, garnish with celery stalk. Makes one serving.

FERS transfer deadline nears

Defense employees covered by the Civil Service Retirement System should remember that the deadline for making a decision to transfer to the new Federal Employees Retirement System, or FERS, is Dec. 31, 1987.

The open season, July 1 through Dec. 31, 1987, was set up to give employees hired before January 1, 1984, time to determine whether they would rather stay under the old system or transfer to FERS. Employees hired after Dec. 31, 1983, are automatically covered by the new system,

Your decision is important and should be considered carefully, say defense personnel officials, since it is a decision that cannot be changed.

Both are good retirement systems, but some of the major differences are:

☐ FERS employees are covered under Social Security plus a basic benefit plan; retirement annuities under the Civil Service Retirement System come entirely from the Civil Service Retirement and Disability Fund.

☐ Unused sick leave may be credited toward length of service for retirement purposes under the Civil Service Retirement System, but not under FERS.

☐ Both systems allow you to participate in a savings plan, but there are more options under FERS.

Each person should have access to a FERS Transfer Handbook. It provides information about the differences between the two systems and shows which system might fit your career plans best.

If you don't have a copy of the transfer handbook or need assistance or further information, contact your personnel office.

Topics needed for the SBIR program

By Diane Heal

It's time to prepare your topics for the FY89 Small Business Innovation Research (SBIR) Program. Submit them to Code 501 (J. Polin) via your department director.

Congress established the SBIR Program to stimulate technical innovation by small hi-tech firms. DoD views SBIR as an opportunity to strengthen the role of small and disadvantaged business in defense-related R&D while increasing the commercial application of DoD research.

The program is divided into three phases. Phase I concentrates on providing the scientific and technical feasibility of the proposed effort. A follow-on Phase II award is directed toward producing a deliverable product or process. Phase III promotes commercial application from the government-funded research or further government development.

Each year topics are solicited on all areas of research and development. After review by NADC, the selected topics are submitted to the appropriate potential sponsors, who then submit their selections to SECNAV for final approval. Once SECNAV has approved the topics, they are published in an annual DoD solicitation.

Funding for a project can come from any sponsoring systems command or OCNR/ONT. The overall program is funded by a 1.25% "tax" on the total DoD R&D budget. These funds are not subject to year end carry-over restrictions.

NADC is looking to expand its participation in this program. If you have any questions on SBIR, contact Jerry Polin (501, ext. 2316) or Diane Heal, Small Business Office, (094, ext. 2456).

ENERGY QUIZ

QUESTIONS

1. In 1977, the U.S. was dependent on imported oil for 49% of its petroleum consumption. What percentage of U.S. petroleum consumption was provided by imported oil in 1986?

a. 24% b. 33% c. 40% d. 48%

2. What is the major source of energy to produce electricity in the U.S.?

a. coal b. oil c. natural gas d. nuclear energy

3. Among the following economic sections, which consumes the most energy in the U.S.?

a. Residential and Commercial
b. Industrial
c. Transportation

4. What percent of a typical shore station's budget is spent on energy?

a. 10% b. 25% c. 33% d. 50%

5. What Navy activity gets all its heat from the earth?

6. How much more energy does the U.S. use today than it did in 1973?

a. 0% b. 10% c. 12% d. 24%

ANSWERS

1. (b.) 33%. At the percent rates, however, the U.S. petroleum consumption provided by imported oil will be over 42% for 1987.

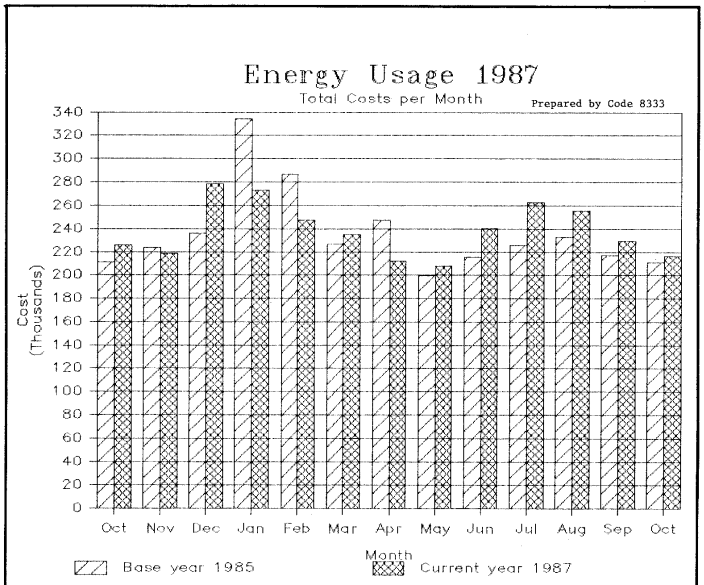
2. (a.) Coal provided 55% of energy for electrical utilities in 1985. Other sources are natural gas 12%, oil 4%, hydroelectric 13%, and nuclear 16%.

3. (b.) Industrial is the highest energy consuming sector with 28% of the total. The transportation sector is second with 27% and residential and commercial third with 20%. Losses in production and delivery of electricity account for the other 25%.

4. (c.) 33% This is one of the reasons energy management in the shore establishment is so important.

5. Naval Station Keflavik Iceland. Geothermal energy at Keflavik provides the Navy the equivalent of 90,000 barrels of oil each year.

6. (a.) 0%. Despite economic and population growth, the U.S. Economy has demonstrated an impressive ability over the past decade to use energy efficiently and flexibly.



Martin Luther King, Jr.

By the President of the United States of America

A PROCLAMATION

Nineteen eighty-seven marked the first observance of the birthday of Dr. Martin Luther King, Jr. as a national holiday. It is a time for rejoicing and reflecting. We rejoice because, in his short life, Dr. King, by his preaching, his example, and his leadership, helped to move us closer to the ideals on which America was founded. We reflect on his words and his works. Dr. King's was truly a prophetic voice that reached out over the chasms of hostility, prejudice, ignorance, and fear to touch the conscience of America. He challenged us to make real the promise of America as a land of freedom, equality, opportunity, and brotherhood.

Although Dr. King was an uncompromising champion of non-violence, he was often the victim of violence. And, as we know, a shameful act of violence cut short his life before he had reached his fortieth birthday.

His story is well-known. As a 26-year-old minister of the Gospel, Dr. King led a protest boycott of a bus company that segregated blacks, treating them as second-class citizens. At the very outset he admonished all those who would join in the protest that "our actions must be guided by the deepest principles of our Christian faith. Love must be our regulating ideal." Otherwise, he warned, "our protest will end up as a meaningless drama on the stage of history . . . shrouded with ugly garments of shame." Dr. King's unshakable faith inspired others to resist the temptation to hate and fear. His protest became a triumph of courage and love.

Almost 30 years ago, on January 30, 1956, Dr. King stood amid the broken glass and splinters of his bombed-out front porch and calmed an angry crowd clamoring for vengeance. "We cannot solve this problem through retaliatory violence," he told them. Dr. King steadfastly opposed both the timid and those who counselled violence. To the former, he preached that "true peace is not merely the absence of tension; it is the presence of justice." To the latter, he said that "in the process of gaining our rightful place we must not be guilty of wrongful deeds."

Dr. King's activism was rooted in the true patriotism that cherishes America's ideals and strives to narrow the gap between those ideals and reality. He took his stand, he once explained, "because of my love for America and the sublime principles of liberty and equality on which she is founded." He wanted "to transform the jangling discords of our Nation into a beautiful symphony of brotherhood."

The majesty of his message, the dignity of his bearing, and the righteousness of his cause are a lasting legacy. In a few short years he changed America for all time. He made it possible for our Nation to move closer to the ideals set forth in our Declaration of Independence: that all people are created equal and are endowed with inalienable rights that government has the duty to respect and protect.

Twenty-three years ago, Dr. King spoke to a quarter of a million Americans gathered near the Lincoln Memorial in Washington—and to tens of millions more watching on television. There he held up his dream for America like a bright banner:

"I have a dream," he said, "that my four little children will one day live in a Nation where they will not be judged by the color of their skin, but by the content of their character. . . . This will be the day when all of God's children will be able to sing with new meaning, 'My country 'tis of thee, sweet land of liberty, of thee I sing.' "

Let all Americans continue to carry forward the banner that 18 years ago fell from Dr. King's hands. Today, all over America, libraries, hospitals, parks, and thoroughfares proudly bear his name. His likeness appears on more than 100 postage stamps issued by dozens of nations around the globe. Today we honor him with speeches and monuments. But let us do more. Let all Americans of every race and creed and color work together to build in this blessed land a shining city of brotherhood, justice, and harmony. This is the monument Dr. King would have wanted most of all.

RONALD REAGAN

Photo by NADC Photo Lab

LOCKHEED CONTRIBUTES TO CFC — ***Local Lockheed representative Jerry Sink (center) presented a $440 check to CAPT Curtis Winters, Center Commander (left) and Ken Clegg, this year's Combined Federal Campaign Chairman. As of December 8th, 72% of the contributions totalled more than $83,000 or 72% of the $115,000 goal.***

Young receives award for management excellence

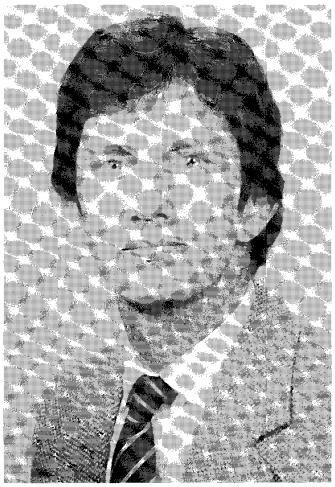
By Mary Ann Brett

NADC Civilian Personnel Officer, Ronald P. Young, recently received the 1987 Board of Governors Award for excellence from the Office of Civilian Personnel Management for overall superior leadership, professional competence and capacity to innovate. He was commended for an outstanding civilian personnel program ". . . making a significant contribution to the mission accomplishment of the Center . . ."

Young has a Master's Degree in Public Administration from the University of Southern California (1975) and has worked at the Center for eleven years. He said, "I was very pleased to receive the 1987 Board of Governors Award for Excellence in Civilian Personnel/Equal Employment Opportunity Management in only its second year of existence. I also believe that much of the credit for this award goes to my staff whose service orientation and willingness to innovate made this honor possible."

Young's accomplishments included successfully managing the recruiting of scientists and engineers (S&Es) which is considered especially difficult in light of private sector salary competition. He implemented such programs as SUBSIDY PLUS, which provides a bonus to graduating coops who choose NADC as their permanent employer and NETWORKS, a reward system for employees who refer new S&E hires.

He was also credited with the Center's smooth conversion to the Naval Civilian Personnel Data System, an innovative Civilian Employee Assistance Program, the introduction of an Automated Position Description System, and a successful Equal Employment Opportunity program.



Ronald P. Young

Promotions

Peggy Bower
Catherine Burian

Andrew Carroll
Stephen Chung
Michael Daum
Patricia Davis

Dorothy Gramlich

Raymond Halchak

Gerald Iannelli

Scott Kee

John Lee
Lewis Lippel
Lynda Mancini

Peggy Newbrough

Kenneth Petri
Mark Polo

Michele Robinson

Robert Seltzer
Oliver Szeto

James Whinnery

Peter Youssef

Carlucci named 16th Secretary of Defense

By JO2 Todd Lufkin

Frank C. Carlucci III was recently sworn in as the nation's 16th Secretary of Defense (SECDEF), succeeding Caspar Weinberger.

The 57-year old is a native of Scranton, PA and a 1952 graduate of Princeton University.

Carlucci served as the Deputy Secretary of Defense from February 1981 to December 1982, when he was appointed National Security Advisor.

The new SECDEF also served as the Director of the Office of Economic Opportunity (1971-73) and Under Secretary of the Department of Health, Education and Welfare (1973-75). Prior to being named Deputy Director of the Central Intelligence Agency, Carlucci was the American Ambassador to Portugal for three years.

Carlucci is the recipient of the Distinguished Intelligence Award, National Intelligence Distinguished Service Medal, State Department Superior Service Award and several honorary college degrees.

He and his wife, Marcia, have three children.

Photo by Mary Ann Brett

VISIONS OF SUGARPLUMS — ***appear more often this time of year especially during the NADC Officers' Wives Club annual bake sale. Homemade treats helped satisfy nearby sweet-toothed employees.***

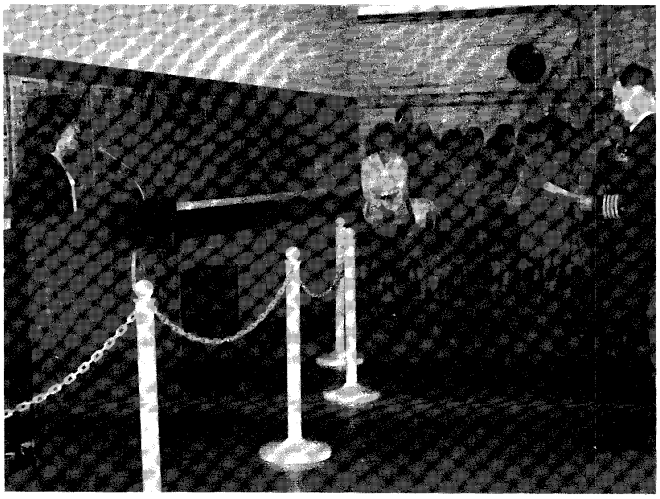


Photo by NADC Photo Lab

VETERANS REMEMBERED AT NADC — ***The Deputy Equal Employment Opportunity Office sponsored a veterans' memorial service beside the veterans display near the atrium. Remarks were offered by DEEO Officer, Center Commander CAPT Curtis Winters and Chaplain P. Schumann. Robert Clegg led the Pledge of Allegiance, and Lusi Dunbar, the Battle Hymn of the Republic.***

Combating holiday diet busters

(Armed Forces Press Pack)

Christmas and New Year's can be disastrous for dieters still recouping from Thanksgiving. Serious dieters need a strategy for combating those holiday temptations.

Here are a few suggestions:

- ☐ Eat fruit for dessert.
- ☐ Skip the bread and gravy.
- ☐ Use low-calorie salad dressing.
- ☐ Count calories and eat smaller portions.

If dining out:

- ☐ Avoid buffets and "all you can eat" meal deals.
- ☐ Order a la carte instead of a complete meal.

Security Reminder

Any form of contact, intentional or otherwise, with any citizen of a communist controlled country or country currently hostile to the United States must be reported to the Security Officer (Code 044). Refer to Paragraph 0502, NAVAIRDEVCENINST 5510.13c.

Silence for 'Silent Night' carol

(Editor's note: The following was submitted to NADC PAO anonymously.)

The carol "Silent Night" might have disappeared from memory after just one performance, 160 years ago. But a stroke of fate brought Joseph Mohr, a newly-ordained assistant to the parish priest of Oberndorf, Germany in 1817. There he met Franz Xavier Gruber, who was a teacher at the local school and an organist at St. Nicholas Church there.

The Broken Church Organ

In the winter of 1818, the church organ began to wheeze and then died. Gruber sent for Karl Mauracher, a Tyrolean organ-builder from Fuegen in the Zillertal, a valley still famous for the families who make music there.

Mauracher pronounced the organ in need of a thorough overhaul. On Christmas Eve it was still out of order. Snow cancelled his plans to return home for Christmas and he attended the Christmas Eve service in the church.

Song Written for Guitar

Meanwhile, Gruber and Mohr had sorted through the music and concluded that without the organ they had nothing suitable for the Advent service. So, Gruber wrote a tune and Mohr provided the words. This carol, "Still Nacht," was rehearsed and performed for the first time on that Christmas Eve.

And so it might have ended, if organ-builder Mauracher had not taken a fancy to the carol and taken a copy back home to the Zillertal. There, one of the singing families, the Rainers, performed the piece in the church at Fuegen the following Christmas and it soon became part of their repertoire.

Spreads Throughout Europe

In 1822, Ferdinand I of Austria and Alexander I of Russia spent Christmas in Fuegen castle. The Rainer family was asked to sing for them. The result was an invitation to tour Russia. On the journey, the family sang its way through Germany and Scandinavia, and even came to London, although the carol had not yet been translated into English.

By 1835 the carol certainly was known at most of the royal courts of Europe — except in Vienna. By then, however, the singers themselves had forgotten who had composed their most popular work. It took a special commission from the Prussian court to dispose of all the rumors that it must be an anonymous product by a genius, such as Mozart, and to trace Mohr and Gruber, who had parted ways just a year after the carol was written.

English Version & Aftermath

It reached the United States in 1839 where, on the 21st anniversary of its composition, it was first performed in the English version we know today, "Silent Night."

The St. Nicholas Church in Oberndorf was demolished early this century because the local community could not afford the cost of renovations. The carol is performed annually, however, at Advent and commemoration services at the gravesides of the two men responsible for it.