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NADC

Reflector

Volume 33 Number 4 NAVAL AIR DEVELOPMENT CENTER, WARMINSTER PA. April 1988

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Varma completes exec training
Schimsky means business
Winters volunteers; will you?
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Bowling/Golf

Center develops second generation ITDA

Photo by NADC Photo Lab

Members of the ITDA Development Team seated around the table (left to right) include: Carmel Owens, Elliott Sidewater, Kathy Stempeck, Pat Beach, Walt Leyland, Dorothy Gramlich and Gale Pollock and standing (left to right) include: Frank Hollenbach, Brendan Beary, Ken Sell, Bev Lazarus and Elaine Picard.

By Mary Ann Brett

"Tactical decision aids are a vital necessity for the Fleet", said Walter Leyland. "And we, at NADC, have just installed an improved, second generation ITDA package for evaluation into three Atlantic Carrier Groups." Leyland is Program Manager for Integrated Tactical Decision Aids (ITDA) in the Command, Control and Planning Systems Program Office of the Battle Force Systems Department (BFSD).

NADC is the Central Development Agency for system-engineered tactical software implemented on a desk-top computer for the Navy. The Center's ITDA package was designed to save time and optimize the use of battle force assets. It is future-time command and control aid allowing a battle force commnder to plan ahead and screen against potential air, surface and subsurface threats by means of a data link to the Joint Operations Tactical Systems (JOTS). JOTS send real-time pictures to the ITDA and allows the operator to ask 'what if' questions. ITDA also includes data bases providing information on acoustic and atmospheric environmental conditions, and identifies sensor and weapon capabilities of hostile and friendly ships. ITDA is devoted to all warfare areas—antisubmarine, anti-air, anti-surface and electronic warfare. Because of this widespread application, it is invaluable to the composite warfare command officer in determining his best posture, that is, either his best defensive posture against attack or his best offensive posture should he have to do force projection.

The original ITDA package was issued to the Fleet in February 1987 for test and evaluation during the spring

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Command Flight Path displayed at Center

By Mary Ann Brett

Imagine this: While driving through an unfamiliar area on a dark and misty night you make a wrong turn and end up lost. Nothing is familiar or matches the directions you were provided. However, within seconds, as the Department of Transportation (DoT) realized your navigational error, it immediately comes to your rescue by building a new road directly to your destination. Sound far fetched? Perhaps for the DoT, but not for Naval aviation, NADC, and Command Flight Path Display (CFPD) engineer Steve Filarsky.

Filarsky manages the CFPD program in the Human Factors and Protective Systems Division of the Air Vehicle and Crew Systems Technology Department. He described the display as a raster (TV picture-like) graphics-generated, color representation of the path an airplane or helicopter should take to reach its destination.

The raster graphic generator is under computer control. The computer has received data from on-board aircraft sensors concerning aircraft position, orientation and velocity. The computer integrates this data with information stored in the computer relative to the planned mission and directs the raster graphic generator to build a picture showing the relationship of the aircraft to the computer-generated cues.

The picture displays not only the airway itself with ground texture indicators, but a small airplane represents the command aircraft on which the pilot flies formation. This command aircraft provides the pilot with cues regarding speed—speed brakes flash when going too fast or after burners flash when going too slow, and acts as a visual checklist (i.e. tail hook and wheels drop and flaps extend) when entering the final approach phase to a landing. The final approach ends at the

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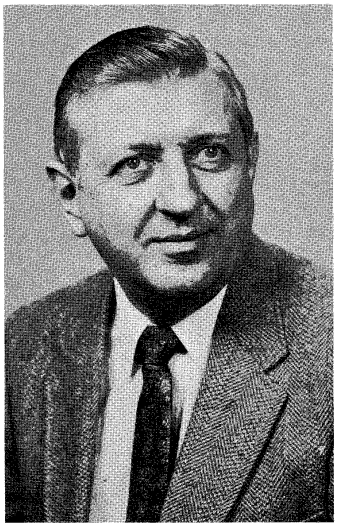

Steven Filarsky
Command Flight Path Engineer

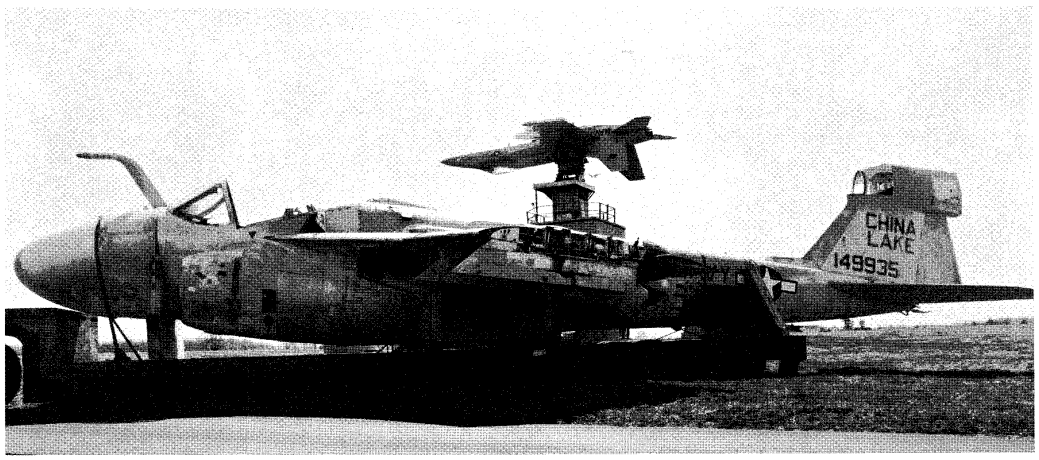

Photo by Robert Goodyear

"Intruder" delivered to antenna test range

By Jim Kingston

A Navy A-6 "Intruder" attack aircraft recently arrived at the Naval Air Development Center from the Naval Air Station, Lakehurst, NJ. However, it didn't fly in. Lacking an engine, it arrived on a flatbed trailer truck creating a head-turning sight as it moved down I-95 and over Street Road in Lower Bucks County to NADC.

The airframe will be prepared for installation atop the Center's antenna test range building and will join a growing list of other test airframes including the Navy's newest fighter/attack aircraft...the F/A-18.

This A-6 is officially designated an EA-6A which identifies it as an Electronic counter Measure (ECM) equipped aircraft and it is part of the Navy's current aircraft inventory and is in active service throughout the Navy's air arm.

Letter to the Editor

LETTER TO THE EDITOR

Wow! Two pages devoted to sailors picking up stones—what a newsworthy item . . .

Unsigned

Normally, we would neither print nor reply to unsigned correspondence to the editor. I don't call the comment of FOD Walkdown a 'letter' since it was simply typed on a piece of 3 × 5 paper. Obviously, the sender was so bent on anonymity that even an unused interoffice envelope was used to avoid any detection of the source. Wow! Such courage of conviction.

So, dear anonymous, we are truly overwhelmed with how completely you missed the whole message of the FOD Walkdown photo layout. The REFLECTOR is not a newspaper in the strict sense . . . we don't deal in hot news. We're an employee house organ and deal only in matters pertaining to the Center and its employees . . . including you, since you became newsworthy.

True: there's nothing glamorous, noteworthy, newsworthy, exciting, or fun about picking up stones from the ramp area, but let one of those stones get sucked up into a jet engine or get propelled by 'prop wash' and serious, costly damage could result, or worse . . . a life could be lost.

According to CDR Tim Cudia, Aircraft Maintenance Officer, the Navy experiences millions of dollars in foreign object damage (FOD) to engines every year. As he puts it. "If a jet engine eats a rock, it's dead." NADC has had no such damage to its aircraft.

We felt this daily, dull routine rated a little recognition and, since there was no great newsworthy story to write, it would be best said in pictures.

Editor,

I want to extend an open Letter of Appreciation to the EEO Office, the Black History Awareness Committee, etc., for the outstanding job they did during the "Black History Awareness Month."

I had the privilege of attending each program and I left with a new sense of respect and human dignity. I am still enchanted by the many splended programs, especially the Simon Gratz High School Choir. These young people are so accomplished and cultured in musical skills.

Although Black History became marketable in the last decade, my experience and interest began much earlier. The month of February was wonderfully reminiscent of my childhood ("Much have been given to me and much is expected of me") and for that I say, "Thanks."

Jane E. Anderson

If the SOC Fits

By Robert Janes

An area of the Standards of Conduct (SOC) which is often of interest in the spring and fall as election time approaches, is the Hatch Act, which restricts the political activities of federal employees. There have been some proposals in recent years to modify the Act so to relax its rules and permit federal employees to engage in a greater of off-the-job political activities. None of those proposed changes has yet been passed, so the traditional Hatch Act rules remain in effect. I urge any of you with questions about the Act to contact the Office of Counsel for advice and guidance. We have a lot of Hatch Act information in our office, and on those questions that we cannot answer ourselves, we can join you in placing a conference call to the Office of the Special Counsel in Washington, DC, where there is an attorney assigned full-time to offer advice on Hatch Act problems.

Some of the Hatch Act questions we have had in our office in the last year or two are:

1. May I run as a candidate for a local school board? This is a non-paid position, for which I would cross-file in both the Republican and Democratic parties.

No, you may not. You are not permitted to run for office, even if cross-filing, in a partisan election.

2. May I run for office as an Independent candidate?

You may not if it is a partisan election, i.e., an election in which one or more of the candidates is aligned with a major political party. A federal employee may run for office in an election only if it is a non-partisan one.

3. My wife is running for Tax Collector in a partisan election. Is this permitted?

Yes. The Hatch Act does not extend to spouses or other family members of

(Continued on page 8)

NADC goes to the Fair. . .

—Small Business Procurement Fair, that is

By Mary Ann Brett

NADC's Small and Disadvantaged Business Office (SADBO) was instrumetnal in coordinating the recent Second Annual Delaware Valley Regional Procurement Fair. Along with the Center, nearly 700 businesses interacted and became more familiar with the government's contracting system.

John Scott, head of the SADBO, said, "Successful small businesses eventually become large, so we're constantly searching for new small and small disadvanatged businesses to fill our contracting needs. Advertising and Requests for Proposals aren't enough, we have to make ourselves available through exchanges like this."

Scott explained that any contract for more than $5000 not awarded to a small business must have an approved small business subcontracting plan before the contract can be awarded.

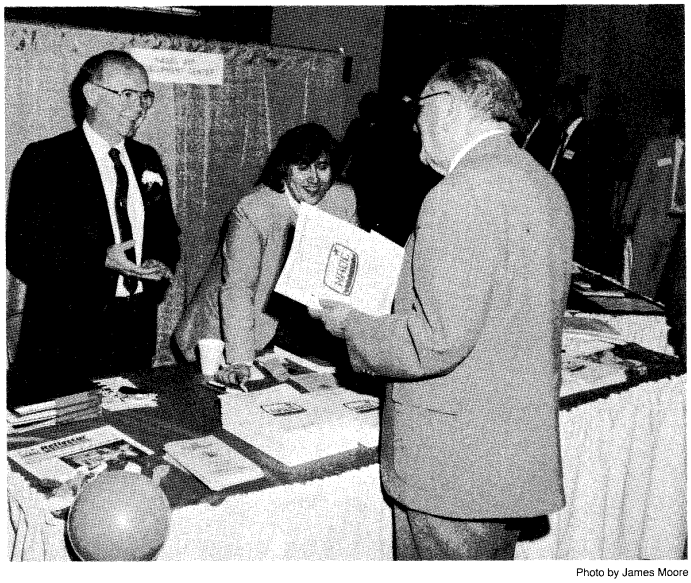

Photo by James Moore

John Scott and Diane Heal of NADC's Small Business Office interact with approximately 700 compaines during the Delaware Valley Second Annual Procurement Fair.

Photo by Clarence Watson

RADM REIDER READS NADC — ***VP Program Engineer Franz Bohn briefs RADM Albert Reider about one of the facility's many acoustic processors. Reiger, Philadelphia Naval Base Commander, visited the Center in March. The Admiral was briefed by CAPT Curtis Winters, Center Commander; Richard Mitchell and CDR Roger Hill and toured the P-3 Lab and Centrifuge before departing for NAS Willow Grove.***

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Public Affairs Officer and Editor ..... **James S. Kingston**
Associate Editor ..... **Mary Ann Brett**
Assistant Editor ..... **JO2 Todd Lufkin**

Varma completes executive training

By Mary Ann Brett

"I can do anything!" said Dr. Asha Varma demonstrating the attitude gained by her and her fellow participants in the "Women's Executive Leadership Program" (WELP) which she recently completed. "The entire experience was like a dream," she said, describing her selection and one year training which, she observed, passed so quickly. Varma is a Physical Scientist and currently Assistant to the Technology Base Manager, Code 01B.

The WELP is designed to prepare talented, professional women in the federal environment for management, an area lacking in adequate female representation. It provides training and developmental experiences to parallel the abilities and characteristics of a supervisor. Participants are exposed to a broad overview of careers and get the opportunity to closely observe managers as role models.

By a Special Act of Congress, the Office of Personnel Management was asked to create a program for federal women. "The program was actually charted by a young minority woman," said Varma. WELP is a modified version of a two-year Senior Executive Service training course. Because of the tremendous interest in the course, applicants are now limited to a current grade level of GS-11 or -12 at the time of application.

The program consists of 25 days formal classroom training conducted by the Office of Personnel Management plus rotational, self-development assignments. "The way you complete these assignments and the network of people with whom you choose to work is left up to you." said Varma.

As one of her assignments, Varma chose to work with Associate Technical Director Robert Becker for thirty days. "It was a valuable experience," she said. "I was Becker's shadow; I attended all of his meetings and provided a third person perspective of what transpired because an outside observer often has a very different interpretation of what's happening."

"No training ever promises a promotion," said Varma, "and this is no exception. But," she added, "statistics show a 95% success rate!" Indeed, that high a percentage of women who participate in this program have eventually realized a one-to-two grade promotion and did get absorbed into their organizations as managers and supervisors.

Varma strongly encourages interested, eligible women to apply for the Women's Executive Leadership Program. "If nothing else," Varma explained, "the visibility you acquire and the amount of confidence it inspires gives you a personal advantage. The members of my class changed before my eyes, within just a few months," She described her class as growing more mature and self-confident in everything from their style of dress to their manner of speaking.

Formerly Supervisor of Analytical Laboratories at the University of Pennsylvania, Varma has worked at NADC for five years. She is an accomplished technologist with an extensive list of credentials and more than forty publications to her credit including a "Handbook in Chemistry," an all-time best seller.

Varma was assigned to Code 01B upon completion of the program. Extremely thankful for her management's full support, encouragement and enthusiasm during her training, she hesitates to speculate about the future. "I do not make plans insofar as my personal future is concerned," she said. "I just blend in with events as time goes by, look forward to future challenges and get restless when they are too few."

Photo by J02 Todd Lufkin

Dr. Asha Varma displays two OPM certificates — one received upon completion of her executive training; the other for outstanding leadership, commitment and support to the program.

Varma chairs Federal Womens' Committee

By Mary Ann Brett

Dr. Asha Varma was recently named Federal Women's Program (FWP) Committee Chairperson. "I have seen the committee do an excellent job," she said. "and my aim is to keep it alive."

As a participant and observer of the FWP Committee activities for the last four years and past president of the "Federally Employed Women" group, Varma sees the lack of male participation in female programs as a major stumbling block. "I respect those men who attend most of our functions, but they are very few," she stated. "I'm aware that many men get teased about attending our programs and, at times, women feel more comfortable without them. "But," she added, "I think we both can gain by the presence of men at women's meetings. After all," she concluded, "they are involved in so many of the issues we discuss."

Varma intends to contact the committee's former presidents for the benefit of their experience and ask all volunteers for their help and support. "The committee's work looked like so much fun," said Varma, "I just want to have fun with them."

Schimsky drives hard bargain in software

By Mary Ann Brett

"Delays and failures in software have literally cost us millions!" emphasized David Schimsky describing the driving force behind NADC's first software briefing to industry. Schimsky who is Head of the Systems and Software Technology Department (SSTD), addressed more then 60 companies interested in knowing more about the Center's software requirements.

"We're trying to raise the level of response," said Schimsky, "And, it will take the best management techniques and sound engineering practices." Speaking with 26 years of experience in the software arena here at the Center, Schimsky explained that software developments have been historically and generally below potential, not just for NADC, but throughout the software community.

To help resolve this problem, his briefing addressed software engineering environments, software productivity, development practices, new techniques and the Center's software goals and visions. One major item covered was "contractor assessment methodology," a process developed by the Software Engineering Institute (SEI). Schimsky feels for the first time the SEI has constructed a "step-by-step road map" on how to better develop software. The Center has adopted this process and is testing it for SEI by applying it to recent and upcoming contracts.

Schimsky explained the process assesses the contractor's software development enabling us to score higher technical evaluations for those companies which would most lower the risk of failure. "We hope to convince contractors it's in their own best interests to improve," he said.

"Becoming more competitive and doing a better job up front would increase their chances of winning a contract," he added, pointing out that SSTD contracts nearly $35 million a year for software.

"The Center has internal goals and objectives," explained Schimsky, "and very strong feelings on the best way to proceed in the business of developing software. If contractors aren't aware of

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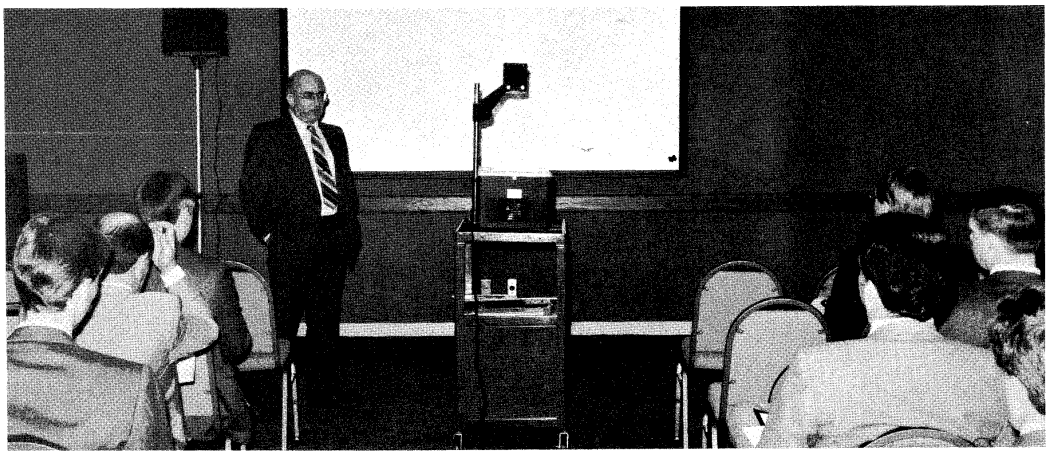


David Schimsky speaks to potential software contractors at the Holiday Inn, Trevose.

Photo by JO2 Todd Lufkin

This could be you!

Winters volunteers for centrifuge run

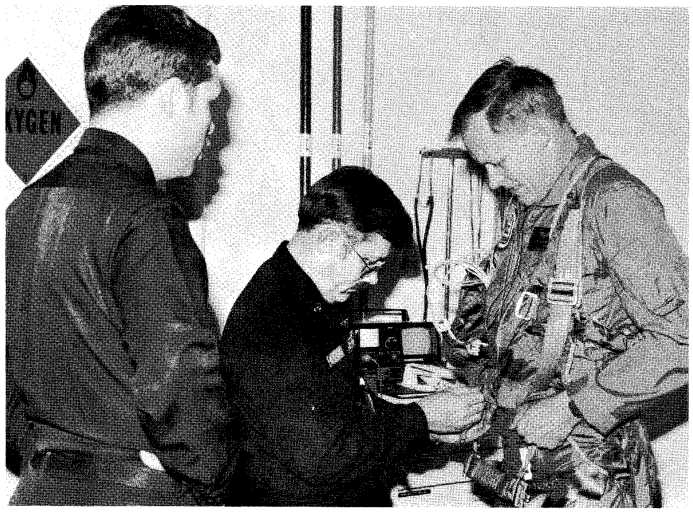
By Mary Ann Brett

Who said, "Never volunteer"? It wasn't Center Commander CAPT Curtis Winters. He recently volunteered and participated in his first familiarization ride in the Centrifuge.

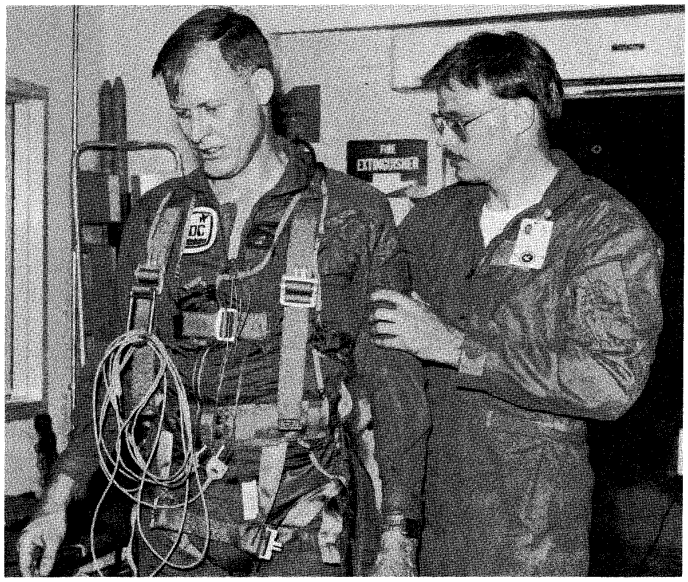
It is this adventuresome attitude that Biomedical Support Branch (BSB) members hope will spur other NADC personnel to volunteer as test subjects.

The familiarization ride is designed to expose potential test subjects to the unique acceleration environment experienced prior to their participation in actual research programs. Prior to the ride, any subject must undergo a complete Navy Flight Physical. Once the subject has passed the medical requirements and completed the first ride, he or she decides whether to participate further. If so, he or she will receive a more comprehensive physical and are then eligible to participate in reasearch programs in the Centrifuge as well as with the ejection tower and cold water chamber.

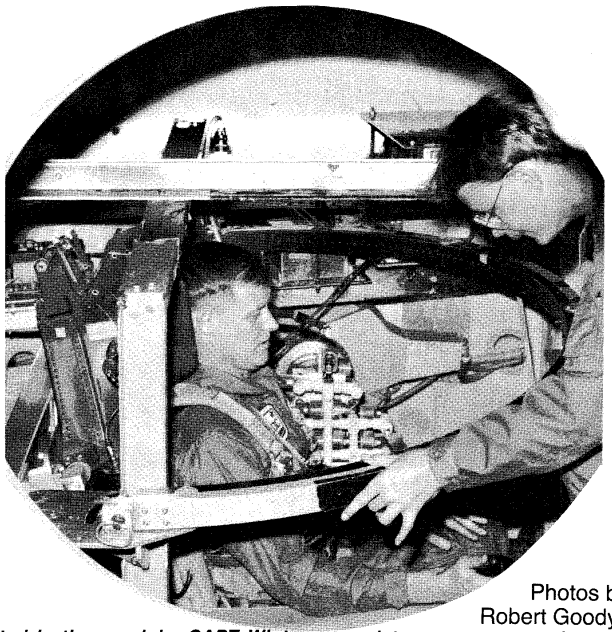
If you are interested in becoming a subject, contact the BSB on extension 1372.



Dr. Peter Letarte discusses the test run with CAPT Winters as PRC Michael Patterson fits the torso harness and G suit.

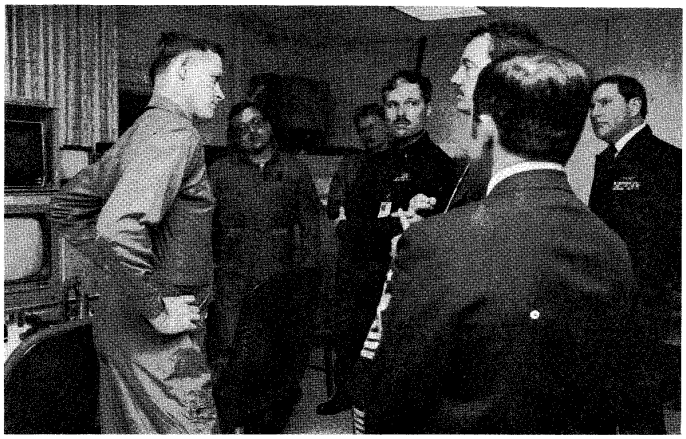


Assisted by HM3 Luke Maxwell, a slightly disheveled CAPT Winters exits the Centrifuge.



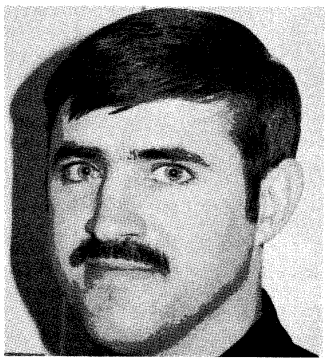
Photos by Robert Goodyear

Seated in the gondola, CAPT Winters completes pre-run procedures and equipment brief with Petty Officer Maxwell.



CAPT Winters discusses his experience during the post-run debrief with Dr. Brian Bennett.

PROFILE—*Murray returns for second hitch*



HMC Duane Murray

By J02 Todd Lufkin

In May 1983, Captain James Anderson was Center Commander, Captain James Sheehan Chief Staff Officer and Dino Mancinelli head of the Air Vehicle and Crew Systems Technology Department (Code 60). Duane Murray was a Hospitalman Corpsman First Class and leaving NADC after a five year tour.

In January 1988, Captain Curtis Winters is Center Commander, Captain Fred Wright is Chief Staff Officer and Doctor Donald McErlean is the head of Code 60. Duane Murray returns to NADC as a Hospitalman Corpsman Chief.

"With my specialty as an aviation physiology technician, there are only eight duty stations I can go to, seven of those being training commands," explained Murray dressed in a flight suit, "plus I had fond memories of my first tour of duty at NADC."

The 33-year-old Murray is impressed with Code 60's "significantly increased professionalism" and sees the centrifuge's capabilities as having so greatly expanded it is now designated as the Dynamic Flight Simulator (DFS).

He also feels the Center is "a lot busier and more active than it was five years ago" and points out that Warminster and Bucks County have shown "incredible growth since I left in 1983."

As senior corpsman in Code 60, Murray sees his biggest challenge as providing leadership and training for the junior corpsmen. "We don't deal with patients per se and it is very important to keep training current," he explained, "we can't forget we're in the Navy."

This native of Estherville, Iowa, felt no qualms in returning to the command as a chief petty officer. "Haven't you ever been somewhere and thought 'now

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Post Graduate Study awardees named

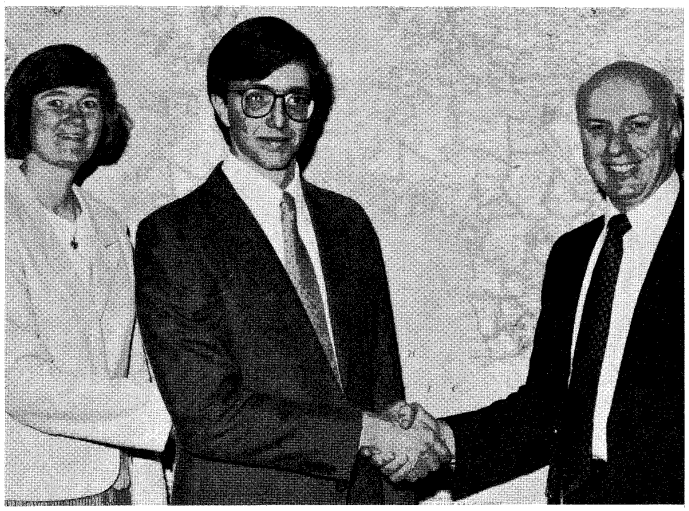


Photo by Clarence Watson

Nancy Harned, William Jemison with Thomas Castaldi, Head of the Mission and Avionics Technology Department.

Photo by Jon Jones

Renae Contarino, Dr. Don McErlean, Head of the Air Vehicle and Crew Systems Technology Department, John Boodey and Judy Koper.

By Edward Calvello and Mary Ann Brett

The Center will be sponsoring nine employees for the 1988-89 Graduate Study Award Program (GSAP).

The GSAP provides an opportunity for competitively selected Center employees to acquire critical, urgently required state-of-the-art knowledges and skills in areas essential to accomplishment of the Center's mission.

This academic year's selectees are John Boodey, Ranae Contarino, Peter Carroll, Glenn Fala, Nancy Harned, William Jemison, Christopher Kirk, Judith Koper, and Carmel Owens.

Kirk is a management analyst in the Financial Management and Planning Department and will study financial and business planning at Temple University. Kirk has also applied for the Secretary of the Navy Career Fellowship Program in Financial Management and is awaiting status of his application.

Boodey, Contarino, and **Koper** work in the Air Vehicle and Crew Systems Technology Department. Boodey, a materials engineer will study materials science and engineering at Lehigh University. Contarino, an electronics engineer (EE), will study biomedical engineering and science, emphasizing flight physiology, at Drexel Univeristy; Koper, an aerospace engineer, will undertake flight controls systems at Purdue University.

Carroll, Fala and **Owens** work in the Systems and Software Technology Department. Carroll, an EE will study systems design and computer engineering at Lehigh. Fala, also an EE, will pursue computer and information science concentrating on artificial intelligence, at the University of Massachusetts.

Harned and **Jemison,** EE's in the Mission and Avionics Technology Department, will study acoustics and sonar signal processing at Pennsylvania State University and electrical engineering at Drexel, respectively.

Normally, selectees are sponsored for up to one academic year of fulltime graduate level training with related authorized academic expenses paid, while receiving their full salary. Applicants must be permanent full-time employees and submit to a comprehensive application review/-selection process.

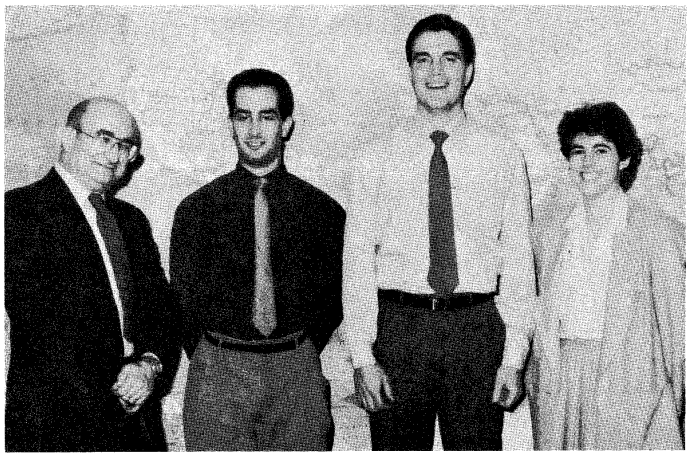


Photo by Clarence Watson

David Schimsky, Head of the Systems and Software Technology Department with Glenn Fala, Peter Carroll and Carmel Owens.

PROFILE—*Murray returns*

(Continued from page 4)

if I were in charge?' Well I got that opportunity to fulfill one of my dreams. As a Chief, I'm now in a position to enact change and make an impact." He is amused when people pass him in the hallways and look at him with the expression of "don't I know you from somewhere?" only to find out they do.

Murray joined the Navy because he decided there has to be more to see in the world than just the Midwest. "I was looking for something different and so I talked with the recruiter. I had worked for a local ambulance company, so I has been exposed to medicine." he stated, "being a Corpsman sounded interesting and so I joined for four years to see what it would be like. I enjoyed it then and still do 15 years later."

In his career Murray has been stationed at Great Lakes for Boot Camp and Corps School; Naval Hospital, Corpus Christi; Lakehust; Pensacola; Brooks Air Force Base. San Antonio; NADC; USS CONNOLLY (DD 979); Naval Hospital, Corpus Christi; and NADC.

While he was on the CONNOLLY, Murray served 18 months as the Command Career Counselor. When he transferred to Corpus Christi Murray was "offered" the job again. "It was very rewarding to work with juniors in developing a career path for them." he stated.

However, Chief Murray isn't the only one in his family associated with medicine. His wife of 13 years, Jeannie, is a registered nurse and worked at Warminster General Hospital when they were here the first time. So far none of their children (Jerry, 10; Jason, 8; Todd, 5; and Ryan, 5 months) show any inclination towards the field. However, he states that "Jerry is very interested in aviation, and would like to be a pilot."

Murray's plans for the future are set. "I want to finish my BS in Physiology (he lacks seven credit hours), update Code 6025's medical inventory and develop a more comprehensive divisional training program." he stated.

No sooner were these words uttered, then Chief Murray was beckoned to another DFS drill and became the embodiment of the Navy's slogan of 'pride and professionalism.'

Commander Salutes

LT Edward Spina (Code 096), **LCDR Neal Hesser** (Code 30), **LCDR Brian Gritte, AW1 Chris Rainwater, ATC Richard Sikorsky, AW1 Kenneth Carrigan** (Code 10), **LT Melvin Mason, AD1 Richard Rock, AE3 Anthony Tallie, AX3 John Bates, AD2 Gregory Duncans, AT2 James Nuyen, AO1 Paul Fries, AMH1 Robert Fordham, LCDR Walter Neboshynsky, AT2 Robert Richard, AMS2 Renaul Johnson, ATC Thomas Mathey, AO1 Antonio Lieggi, AD1 Ronald Whisonant, Daniel Probert** (Code 90), **CDR Richard Feierabend, Peter Bruno, John Albert, Leon Robinson, John Iannuzzi, Jaime Pupek, Janice Rudy, Scott Natter, Michael Wilson, Patricia Aspinall, Dr. Bruce Steinberg, Joseph Klicka, David Volak, John Samaras, Regina Luce, Eduardo Danganan, Rockne Anderson, Arthur Horbach, Gabriel Potocsky, Paul Haas, Michelle Grob, Sandra Oehmke, John Gambale, Robert Gindhart, Thomas Gabrielson** (Code 50): For outstanding support to the BROADBAND 87 Sea Test.

Alan Kaniss, Otis Johnson, Henry McCloskey, Michael Bell, Stephen Jerdan, John Vinck (Code 05): For outstanding support of Automatic Data Processing operations at NADC and the Naval Surface Weapons Center.

Thomas Hess (Code 60): For professionalism, outstanding ability, and dedication to the Joint Technical Coordinating Groups on Aircraft Survivability.

LCDR B. Gritte, LT R. Brennan (Code 10), **LT R. Erickson, Dr. J. Sheehy** (Code 60): For thorough briefings to the Canadian Director, Maritime Aviation.

Carl Reitz (Code 20): For performance in support of the Source Selection Evaluation Board and the Source Selection Advisory Council for the Remotely Piloted Vehicle Program.

Commander's Safety Award

Presented to

NADC

SAFETY AWARDS 1987

Commanders Awards—Financial Management & Planning Department 3 yrs. Civilian Personnel Department (2), Antisubmarine Warfare Systems Department (1), Tactical Air Systems Department (1).

Group Awards—TSD Electrical Shop, TSD Machine Shop #1, Quality Assurance, Aircraft Division, Power Plants Branch, Airframes Branch, Aviation Life Support Systems Branch, Egress/Environmental Systems Branch, Electronics Branch, Electric Branch, Ordnance Branch, Plane Handler Branch, Aviation Armament Division, Line Division, PW Rigging Branch, PW Service Branch, PW Transportation Division, Structural & Aircraft Fire Division, Ship Stores Branch, Fuel & Liquid Gases Branch, Storage Branch, Food Services Division, Aviation Support Division.

Supervisor's Awards—Vincent A. Morelli (6), yrs. Dominic E. Zaccaria (2), Thomas J. Morrison (1), Edward T. Engle (7), John R. Hannon (3), Earle L. Largent (8), Edward W. Linke (7), Cron P. Eckman (2), Donald H. Meadows (1), Charles E. Mayers (2), William J. Adams (7), Alfred W. Keiss (4), Carlos A. Sanchez (3), James D. Myers (3), Michael B. Gindele (2), AMCS Stanley Shelton (2), AMHC Alan Shepard (1), AME2 Brian Higgins (2), ATCS Wayne Slagle (1), AXC Ira Sparkman (1), AOC William Swilley (1), AD1 Edward Whalen (2), AKC Horatio Mercado (1), MSC Blas Ibasco (1).

Material Handling and Construction Equipment Operator's Awards—Dale R. Jackson 20 yrs., Lister Ransom (17), William J. Walto, Jr., (14), Junious Newman (11), Charlie F. Belcher (3), Nick Markwald (3), Casper A. Pepe (3), Thomas J. King (2), John J. McGee, Jr. (14), Kenneth R. Danser, Sr. (14), T. William Singleton (12), Lloyd Pinkett, Jr. (9), Edward J. Hill (6), Paul Newborn (3), Sherry M. Forbes, (2), Thomas E. Munyan (1), Eladio Colon (13).

Safe Driving Awards—Thomas R. Ryan 16 yrs., Calvin Harvey, Jr., (9), Paul E. Cronin (6), Arnold Gibson (5), Kinzel R. Edwards (4), Eugene E. Byers, Jr. (3), John Scott (3), Stephen G. Fisher (2), Joseph K. Perkins (2), Michael W. Hartman (1).

In recognition of their excellent record achieved in performing their duties without a lost-time mishap during the twelve consecutive month period.

Schimsky...Business

(Continued from page 3)

our thrusts and initiatives," he added, "how can we expect them to respond to our proposals in a way that would help us achieve these goals. This briefing was a formal, concerted effort to let them know."

"Audience reaction indicated the briefing was very well received," Schimsky said. "We'll see indications of success within the next three to six months when we begin to get responses to two or three of our larger contracts now in process."

The SSTD is responsible for the development of all the major software products in support on the Center's mission. "It's interesting," said Schimsky, "it's this very same organization of responsibilities which allowed us to conduct the briefing. Because the Center has elevated the business of software to the department level, we are able to control, specify, and guide all of the major software developments from one central management structure. That allowed us to conduct the briefing representing the entire Center and not just one project."

Schimsky feels NADC software/-industry briefings will be scheduled every year addressing new areas and providing updates on progress in old areas. "NADC's software image is shaped in large part by our contractors," concluded Schimsky. "For us to do better and project a strong software capability, requires them to do better, too."

ITDA—2nd generation

(Continued from page 1)

and summer. With the help of the BFSD systems engineers and the Systems and Software Technology Department, Fleet comments and recommendations for improvement were investigated and incorporated into the new iteration.

"As a result", said Leyland, "this second generation ITDA is more user friendly and better documented." He explained, "We've added screen prompts and highlighted special function keys, simplified the egress path when going from one function to another, refined the graphics and better illustrated the user guides."

"One facet of the package users especially like is the electronic warfare module." Leyland said. "The module provides information of the potential block out or 'masking' or land-based or airborne radars by mountains or other land masses and allows us to use that information to our best tactical advantage." In addition, if and when a battlegroup is exposed to reconnaissance or surveillance satellites, it gives the time of actual exposure. "That's important", explained Leyland, "because of the need to maintain covertness. If we know when our presence has been detected, we can react to minimize the effects."

The ITDA package has grown from nearly 300,000 to 6000,000 lines of code including data bases. It uses the HP-UNIX operating system with algoithms coded in either "C" or Fortran languages with hopes of going to Ada in FY89.

"By May ('88), said Leyland, "we expect a thorough, comprehensive evaluation from the Atlantic and Pacific Fleet. But, early indications are it will be favorable."

NADC is largest blood donor in Lower Bucks

NADC personnel are Lower Bucks County's bigest blood donors! The blood drive's fiscal year ends June 30. So far this fiscal year NADC has contributed 813 pints; 279 of those were donated during the March 88 drive.

Code 00: Winters, C; Code 01: Driscoll, J.; Martin, M; Code 02: Dougherty, S.; Fisher, S.; Flumara, S.; Kotary, C.; O'Neill, M.; Penge, M.; Roberts, R.; Rudolph, M.; Simon, C.; Van Luvanee, M.; White, J.; Code 03: Brownlee, R.; Decicco, M.; Devlin, M.; Higgins, M.; Keenan, G.; Pomrink, R.; Savage, L.; Skillens, B.; Code 04: Deleeuw, R.; Fields, K.; Fisher, A.; Fisher, M.; Fletcher, A.; Martinez, M.; Olmedo, V.; Pessano, J.; Sinnamon, E.; Vigelis, M.; Code 05: Dudley, M.; Lucus, E.; Malecki, M.; Oliver, J.; Worobe, E.; Code 06: Hendricks, R.; Pfeil, D.; Rice, V.; Code 09: Janes, R.; Sangmeister, E.; Code 10: Abramson, F.; Baker, D.; Benn, P.; Bowes, J.; Brookes, R.; Foerst, L.; Freeman, J.; Justus, K.; Lange, G.; Lubanski, R.; Torok, G.; Vanfossen, M.; Vollrath, L.; Wentz, W.; Williams, D.; Williams, F.' Code 20: Ackerman, R., Colombo, J.; Furmanski, D.; Schwartz, R.; Spector, A.; Code 30: Ballew, N.; Bryant, J.; Bumgardner, P.; Khawaja, S.; Moffitt, E.; Mutschler, D.; Nicolai, V.; Rhodeside, G.; Sawyer, D.; Sztubinski, D.; Yannuzzi, E.; Code 40: Bradley, W.; Gutzler, A.; Hasselbusch, W.; Heller, K.; Kile, M.; Klopfer, W.; Miller, F.; Nicolo, S.; Pessognelli, J.; Reis, N.; Schoppe, W.; Schweizer, C.; Scott, L.; Smith, L.; Tobin, M.; Weathers, S.; Code 50: Aspinall, P.; Bazow, S.; Beach, E.; Beans, E.; Campana, J.; Carroll, A.; Cloak, S.; Dedominicis, T.; Everett, W.; Faller, K.; Harris, J.; Hontz, R.; Irvin, J.; Keiser, D.; Levin, S.; Lipacis, M.; Lipski, W.; Matura, M.; Millier, D.; Moser, P.; Mulholland, F.; Plonski, F.; Rankin, M.; Rineer, F.; Roach, L.; Rosa, R.; Schuch, D.; Sniscak, J.; Tepper, J.; Termine, F.; Thompson, C.; Toner, J.; Vendetti, A.; Ulrich, P.; Wagner, M.; Waynick, A.; Wilks, J.; Yoshida, A.; Code 60: Agmew, D.; Alper, J.; Bebey, J.; Becker, W.; Bethke, J.; Biggs, L.; Bullard, K.; Burch, M.; Cannon, M.; Carper, N.; Cohen, D.; Crea, F.; Darrigo, D.; DiGirolamo, R.; Donnellan, M.; Dugan, C.; Emery, R.; Fazenbaker, D.; Foley, T.; Frost, H.; Gaetano, A.; Garber, R.; Greenhalgh, S.; Henderson, J.; Hess, T.; High, J.; Holmes, P.; Hughes, T.; Illmer, K.; Jacobs, L.; Kaufman, J.; Kelly, K.; Keyer, D.; Kuster, F.; Letcher, S.; Lu, L.; Mawhinney, W.; McEntire, B.; McGinley, K.; McGlynn, E.;Mergner, K.; Miller, C.; Moroney, W.; Mott, G.; Nosel. E.; Notaro, J.; Nuyen, V.; Poli, M.; Preissner, E.; Pulley, D.; Quartuccio, J.; Routzahn, R.; Ruzansky, M.; Shaffer, I.; Shender, B.; Springer, T.; Strizak, M.; Ta. L. Thomas, M.; Turzanski, R.; Ward, W.; Weller, G.; Werczynski, G.; Werner, W.; White, E.; Whitman, G.; Wills, K.; Code 70: Aquila, R.; Azarewics, J.; Bendzlowicz, R.; Bleiler, D.; Bunting, J.; Carroll, P.; Cavender, B.; Clay, J.; Daulerio, M.; Dupont, A.; Engle, M.; Glemser, R.; Halko, C.; Hall, S.; Holloway, S.; Huber, L.; Johnson, R.; Jusczak, M.; Kellersurman, H.; Lamb, J.; McEntire, K.; McGuire, M.; McHugh, T.; Meer, M.; Michalski, T.; Montrey, K.; Moroney, G.; Murnin, H.; Newbrough, P.; Nuss, W.; Piras, R.; Preston, C.; Rachiele, J.; Reich, L.; Robinson, J.; Robinson, S.; Santini, J.; Schmiedekamp, C.; Shaner, S.; Spiecker, J.; Stallworth, K.; Steinley, M.; Steinley, S.; Sterchak, S.; Stowall, F.; Strobel, D.; Supp, J.; Sutton, D.; Tessitore, T.; Whiteman, D.; Zwissler, R.; Code 81: Armstrong, J.; Berg, M.; Boyle, G.; Burian, C.; Devalle, J.; Gould, T.; Kiefer, D.; Koch, J.; Miller, L.; Moore, R.; O'Neill, M.; Rogalski, M.; Towarnicki, J.; Wiggs, W.; Williams, L; Code 83: Anthony, R.; Broomer, L; Brown, W.; George, B.; Harless, C.; McClintic, J.; McFetridge, R.; McKenna, W.; Mosakowski, A.; Peurifoy, V.; Quinn, K.; Soto, G.; Varner, D.; Zuccarelli, F.; Code 84: Ashley, C.; Collins, R.; Ganter, W.; Lipinski, M.; McKay, S.; Mitchell, N.; Nissley, N.; Palaia M.; Pauly, D.; Reed, R.; Ridpath, S.; Singleton, T.; Code 90: Myers, W.; Code 91: Byers, E.; Gibson, A.; Hartman, M.; Keiss, A.; Perkins, J.; Code 92: Fennell, T.; Kowalewski, H.; Rickmers, B.; Shelton, S.; Contractors: Amber, C.; Beatty, E.; Callahan, M.; Coco, A.; Curtis, D.; Dennis, B.; Disebastiano, A.; Falvey, M.; Fossile, D.; Gula, J.;Hild, G.; Kasper, E.; Kearney, J.; Kichula, L.; McTague, B.; McTague, J.; Pires, W.; Price, J.; Ritaldato, D.; Sanders, J.; Stump, T.

Photo by NADC Photo Lab

SURVIVOR CREDITS NADC — ***As reported in the December REFLECTOR, 2 Navy aircrewmen credited the NADC-developed Helicopter Emergency Egress Device (HEEDS) for their survival of an A-46 helicopter crash in the western Pacific. One of the survivors recently visited the Center to personally thank and brief the HEED's development team.***

Front row: George Gillespie, LT G. LaFave (surviving pilot), John Harding, Helen Hummel; Second row: Jocelyn Alston, Brandon Johnson, Maureen Reynolds, John Tye, William Justice; Third row: Stuart Hall and Frank Ciesielski (contractors), Robert Moy, Don Pisechko, Forrest Miller (contractors); Top row: Jeffrey Lewis, Paul Donaker, Adelaide Thompson, William Sadak, and Stan Cardwell. (Not pictured) William Zorkoswki, Doug Dawson, Rod Purcell and Richard Hall.

Leave—more than one way to take off

By Jim Kingston

When we talk of leave, we invariably think in terms of 'annual leave' or 'sick leave' and whether or not we have leave accrued. That's about it. In reality, there's a lot more to the leave than just annual or sick. There's leave without pay (LWOP), maternity leave, court leave (not for playing tennis), military leave, on-the-job injury leave, as well as excused absence and absence without leave (AWOL).

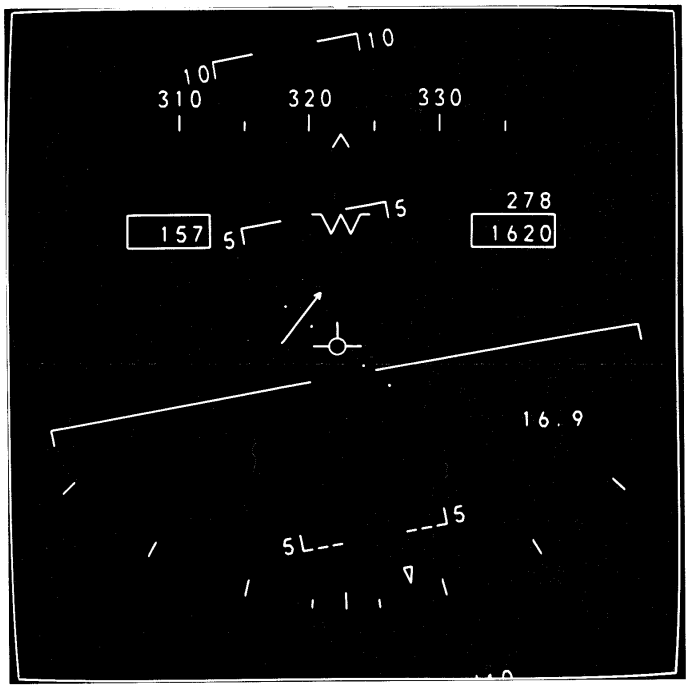
The principle purpose of annual leave is to allow us to take a vacation or to use when we have personal business or emergencies that can only be handled during normal work hours. Depending on your length of service you accrue either four, six, or eight hours annual leave each pay period up to a maximum of 240 hours. Year to year carry over of more than that may put you in a 'use-or-lose' category. Annual leave is requested through and approved by your first-line supervisor and is granted and taken in increments of one hour. In general, routine annual leave is fairly uncomplicated.

Sick leave is the second most frequently used means of approved time off with pay. Everyone accrues sick leave at the same rate of four hours per pay period and there is no limit on the number of hours that can be accrued and carried over from year to year. Its primary function is to provide for absense from work in case of illness, injury, or to receive medical care. Used wisely and properly, sick leave can serve you well (no pun intended). However, this form of leave has traditionally been the subject of abuse. An astute supervisor whose employee has a history of being sick on Fridays and/or Mondays may, justifiably, suspect sick leave abuse and require medical certification from such an employee. This practice ultimately hurts the employees himself.

A lesser known — and lesser used — leave form is leave without pay or LWOP. It is particularly well suited to those who have exhausted their annual leave or sick leave and still need additional time off. For example, you may wish to take an extended family vacation or a 30-day ocean cruise. However, having no accrued leave is not a prerequisite for seeking or using LWOP. Employees with annual and/or sick leave on the books can and may be granted LWOP although any earned compensatory (comp) time must be used first. It's important to note that unlike other forms of leave LWOP is not a right, but an alternative subject to supervisory approval.

(Continued on page 8)

Command Flight Path displayed at NADC



Conventional aircraft display with digital and analogue readouts.

(Continued from page 1)

end of the runway or aircraft carrier.

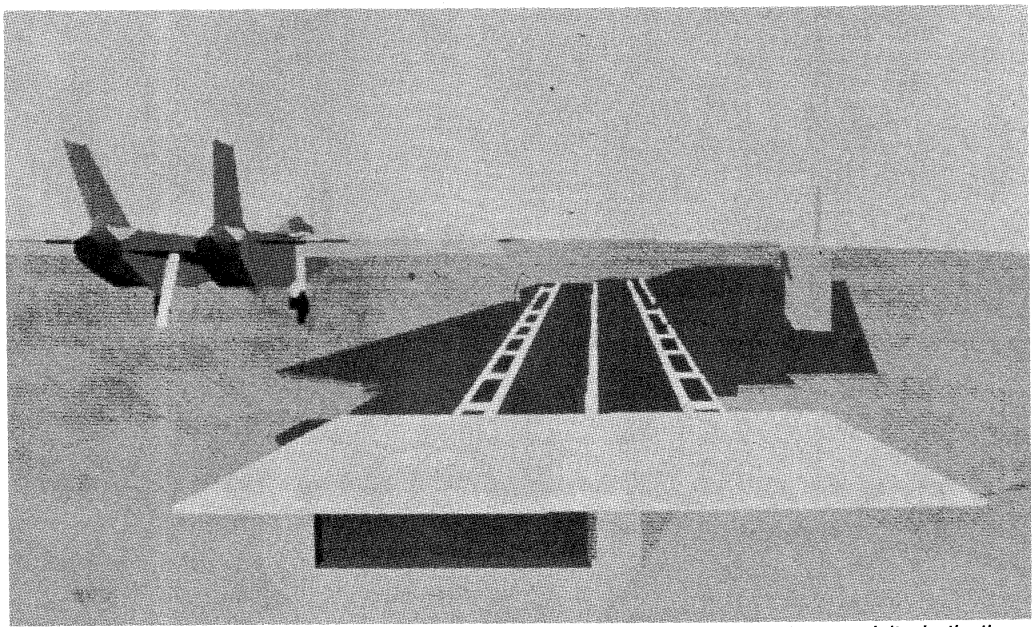
Through the years aircraft cockpits have dramatically increased in complexity and have become increasingly difficult for the pilot to integrate. Each bit of digital or analogue information must be integrated into a mental photograph in the pilot's imagination. The CFPD would virtually eliminate this particular effort.

"At preflight," said Filarsky, "the pilot would feed to the computer the information on his task, destination, and expected scenarios for the day. The computer then generated the path complete with latitude, longitude, altitude, speed, target, and topographics—all pictorially."

"If the pilot should deviate accidentally," Filarsky commented, "a new path puts him back on course. If it's intentional, the pilot just tells the computer where he wants to go and it will reconstruct the path to accommodate his request and then return him to the original course at completion."

The Command Flight Path Display has been flight tested on a Total Inflight Simulator (TIFS, an airplane which operates much like a car equipped for driver training), on on F-14 aircraft, in a helicopter simulator and is now being installed in NADC Crew Station Evaluation Facility. The display concept will soon be installed in the Dynamic Flight Simulator and in a NCH-53A helicopter.

Initial pilot reactions indicate the CFPD increases their effectiveness and efficiency. One of these pilots is LCDR Timothy Sestak, a helicopter pilot and Head of the Vertical Flight Program Office in the Anti-Submarine Warfare Systems Department. Sestak said, "It's definitely tomorrow's way of flying. Instead of having to integrate the information as it is now presented," he explained, " the pilot has only to differentiate—a much quicker and easier task.



Raster graphics-generated representation of the path an airplane or helicopter should fly to reach its destination.

Leisure travel office opens

By Jim Kingston

The Scheduled Airlines Travel Office (SATO) is now officially in business. Located in Building #3, first floor, opposite the official travel office, the SATO facility will be a full-service travel agency serving all the leisure time needs of NADC personnel.

The office will book reservations and issue tickets on all airlines, AMTRAK, Greyhound, and rental cars, as well as arranging vacation tours and cruises.

Cash, personal checks, and most major credit cards, such as American Express, VISA, and Master Card, will be accepted for payment.

Denise Kent manages the office which will be open Monday to Friday, 0800 to 1600. Kent has more than 9 year's experience in the travel business and has been associated with Talmage Tours, Liberty Travel, and Wings Airways. She can be reached on extension 2729 or from off Center at 956-0744.

In addition to our having on-Center travel services and good, group-rate tours and travel packages, NADC's Military Welfare & Recreation will benefit directly from use of the SATO's services.

Bowling League News

By Tom Reiter

The votes are in. Next season's league officers have been elected. By popular vote, our new President will be **Wes Gleason.** I'm sure it was just a coincidence that on the final night of voting, he dragged in and set-up behind his lanes, a keg and mugs for free refreshments. He said it was left over from his St. Patrick's party—good move Wes. **Carla Mackey** becomes our Vice-President. At last year's banquet, Carla was awarded the President's trophy for her spirit and sportsmanship; she's a credit to our league and an excellent choice. **Tom Reiter,** our President for past four seasons, ran and was elected for the vacant Treasurer position. The new **Donna Morgan** will be our Secretary. Donna knows her stuff and is looking forward to coping with the temperamental computer program that Sue Casagrand and Steve Jerdan have so masterfully pampered on their lunch breaks over the past two seasons. Executive Board members elected were **John Bowes** (Who Cares), **Lois Savage** (She Cares), and **Rick Yeager** (He Cares). Congratulations to all, it looks like we again have a strong administration.

Wednesday, March 30'th marked an explosive night for us with 200 games galore. The second game between Les Champignon and Who Cares ended with a 1102-1101 one pin victory for **John Bowes'** fat cat lineup. Johnny stayed home and sent out **Steve Fleischut 265/622, Cliff Tierney** 199/518, and **Steve Metcalf** 211/512, supported by **Barb Fleischut** and **Stephanie Shelmet.** Les Champignon's, with their killer husband and wife combo of **Klaus** 245/612, and **Anke** 202/553, **Illmer,** pushed them to the limit (one lousy pin) for one of the highest scoring matches this league has seen in several years. Besides Steve, Klaus, and Ankes' games, the night included **Wes Gleason's** 233/210/230/673 series, **Hank Lystad's** 258/244/661, **Jack Baron's** 236/580, and **Linda Stickney's** 214/563.

Thunderbird Street Lanes has been awarding bowling towels for games above **225** for men and **180** for women. Winners to date are:

Steve Fleischut
Mark Lind
Rick Yeager
John Vincent
Jeff Irvin
Mike Lizbinski
Wes Gleason
Leo Markushewski
Jim Michell
Mike D'Aulerio
Kevin Ryan
Ernie Wykes
Chuck Halko
Ed Reidinger
Jack Eyth
Steve Spadafora
Gene Toner
Jim Campana
Klaus Illmer
Mike Dent
Hank Lystad
Scott Kee
Jack Baron
Bonnie Liedy
Lorrie Dunn
Anke Illmer
Linda Stickney
Elaine Granieri
Denise Beck
Pat Tease
Lorraine Reidinger
Caroline Tierney
Franny McKee
Carla Crist
Donna Morgan
Mary Feeley
Lorraine Kittner
Eileen Cunnane
Lynn Fratrik
Kathy Barnes
Maria Cusanelli
Andrea Sicher
Nelda McMillian
Sharon Robinson
Marguerite Hoefling
Teresa Wells
Joanne Coughlan
Beverly Lazarus
Miriam Lentz

FAMILY DAY OPEN HOUSE

Naval Air Development Center
Saturday, May 21st, 1988
10:00 AM — 2:00 PM

NADC military, civilian and contract employees with their families are invited to visit worksites and laboratories at the Center.

More than 25 exhibits, displays, videos and demonstrations will be featured to entertain adults and children. Food and drink will be available in the Anchorage Cafeteria and the Crew's Rest Club.

Watch for more details in the LOG, on Center TV monitors and in the special edition of the next REFLECTOR.

Security Reminder

Documents containing distribution statements B, C, D, E, F, X, Privacy Act or proprietary information must be destroyed in a manner preventing disclosure of contents or reconstruction of the documents.

THEY MUST NOT BE DISCARDED AS TRASH.

Improved W & R golf outings for 1988

This year, the W&R golf outings schedule and format will be expanded and improved to accomodate the growing numbers of NADC golfers. A total of seven monthly outings are planned. The format for each outing will include prizes for both low gross and low net scores. All outings will feature closest-to-the-pin on all par three's, and a longest drive hole. A cumulative individual season competition, as well as optional team better-ball competition will also be featured. The season will end with a scramble tournament at the new Warminster Golf Course.

Entry fee (to cover prizes) is $2.00 per outing, per person, payable to any W&R Committeeperson prior to play. For further information contact any of the following: Rob Muller, x3932; Ken Miller, x1834; Leon Domzalski, x3254; Frank Sheedy, 675-6753; Bob Lehman, x1669; Curt Swatchick, x2589; Pete Brown, x7060; John Sniscak, x2482; or Dennis Cantley, 674-0200.

The tentative schedule remaining for '88 is as follows: 3 May, Twining Valley; 7 June, Twin Lakes; 14 July, Center Square; 9 August, Upper Perkiomen; 13 September, Limekiln; 4 October, Warminster. Outing details will be posted on a new W&R Golf Bulletin Board scheduled to be readly by April 1st.

If the SOC Fits

(Continued from page 2)

federal employees, although federal employees must be wary of just what they do on behalf of their spouses. We are not permitted to engage in active campaigning for partisan candidates, and can do no more on behalf of a spouse then we could for any other candidate.

4. May I, a registered Democrat, fill out the term of a recent resignee as township supervisor? The Board of Supervisors is asking for interested people to submit their names, after which it would conduct interviews and then select someone for the positon.

Yes, you may. The key here is that you are not running for election, but being appointed by the township board.

5. I would like to display a sign in my yard on behalf of a political candidate. May I?

Federal regulations provide that it is proper to wear or display political badges, buttons, or stickers, but are silent concerning the use of political signs. The Office of the Special Counsel has advised that such a display is permissible so long as it is a small yard sign, freely distributed by campaign headquarters.

LEAVE — more than one way

(Continued from page 7)

Military leave is used by those who are members of reserve components of the armed forces which includes Army and Air National Guard. Drilling reservists are required to perform two week's active duty each year and military leave permits them to do so without a loss of pay. The limit on military leave is 15 calendar days each year and includes the non-working days falling within the training period. Normally, that's the week-end in the middle of the two-weeks. Reservists called up for additional duty beyond the 15-day period, have to use either annual leave of LWOP.

For the definitive answer to all your leave questions, check with Civilian Personnel or NAVAIRDEVCENINST 12630.IJ.

Promotions

Richard Cline, Gary Delserro, Thomas Donnellan, Richard Eppright, Linda Fomalont, Margaret Furlong, Elaine Granieri, Arthur Gutzler, Kathleen Hanling, Marybeth Kenny, Daniel Mathews, Richard McNeil, Evan Nosel, Mark Salamon, Daniel Schmidt, Robert Smiler, Vicky Speakman, James Toll, Frank Wenograd, Steven Woods, Angelo Zuino.

Worth Repeating

"The world is moving so fast these days that the man who says it can't be done is generally interrupted by someone doing it."

— Elbert Hubbard, editor, publisher