



# Reflector

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Volume 34 Number 6

NAVAL AIR DEVELOPMENT CENTER, WARMINSTER, PA.

June 1989

## Center takes lead with 1st workshop

Another first in the Navy. A workshop on Weapons Internal Carriage and Separation (WIC&S) sponsored by the Air Vehicle and Crew Systems Technology Department was held at NADC for two days. Seventy-five leading researchers and engineers in the WIC&S field attended the two-day sessions.

With increasing emphasis on stealth technology, the ability to carry weapons internally is becoming a prerequisite in new and upgraded aircraft design. Through wind tunnel test and computational fluid dynamics analysis, researchers hope to achieve safe and accurate weapon separation from a bay by predicting the aerodynamic and aeroacoustics parameters. Internal weapon carriage will increase aircraft survivability, reduce observability and optimize aircraft performance.

The workshop was structured to enhance information exchange among industry, government and university personnel in a relaxed and informal manner. The two previous workshops were sponsored by the Air Force in 1986 and 1988. By sponsoring the Workshop, NADC gains visibility in the field of weapon integration.

Continued on page 3

## War College courses to be held

The Naval War College will hold courses at NADC for the coming academic year which begins in September 1989. This special no-cost-to-the-student program responds to the Chief of Naval Operations' desire to increase the Naval War College attendance and foster strategic thought among naval officers. The program is open to all military officers (O-3 and senior) and to civil servants (GS-11 and above). The enrollment process has begun and will continue until 28 July. Applications are available from John Markow (Code 032), extension 1026. The Naval War College selects applicants on a competitive basis and because of limited class capacity it is important to apply early.

Non-resident study enhances an officer's professional knowledge and  
Continued on page 6

## NADC takes SPAWAR EEO award



Photo by NADC Photo Lab

EEO office personnel receive congratulations and SPAWAR EEO award from Center Commander CAPT C.J. Winters. Pictured Joanne Owen, Lynne Edwards, Robin Halperin, Lois Savage, Deputy EEO Officer Kathy Gause and CAPT Winters.

NADC recently received the Space and Naval Warfare Systems Command Equal Employment Opportunity Award for FY 1988. The Center was selected for this award based on its innovative accomplishments in: the Historically Black (and Hispanic) College/University Program; community outreach programs focused on developing minorities' and handicapped individuals' interest in pursuing engineering and scientific careers; career development programs for women; success in informally resolving complaints; and increasing the representation of minorities, females and handicapped individuals in the work force.

## Thumbs up for Family Day!

By Mary Ann Brett

By virtually all measures, the NADC Family Day Open House on May 20th was a resounding success. Nearly 2000 employees, family members, friends and contractors visited the Center. The day officially began with a ribbon cutting ceremony which unveiled the partially restored Brewster Buccaneer aircraft being reassembled at NADC by volunteers. Technical displays, vintage and present day aircraft including tours through a P-3 aircraft and a CH-53 helicopter and a look inside the F-14 aircraft cockpit held the attention of all.

Departing aircraft created a delightful sight for aviation enthusiasts of all ages.

See additional photos on page 5

*Five year old Christopher Smith, an aspiring Navy Flight Surgeon, gives a 'thumbs up' for Family Day at NADC. His father Allen Smith a lieutenant in the Naval Reserve worked for a time on restoring the Brewster Buccaneer here at the Center.*

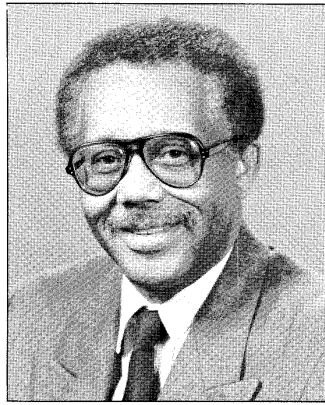


Photo by LT Allen Smith III, USNR

# Command Corner



**Captain Curtis J. Winters**  
Center Commander



**Guy C. Dilworth, Jr.**  
Technical Director

## Commander Salutes

**Frank Allen, Robert Geyer** (Code 30): For significant technical contributions during development of Carrier Battle Force Anti-Submarine Warfare Architectures.

**William Mulley, Charles Koch** (Code 70): For contributions at the 7th meeting of Air Standardization Coordinating Committee Working Party 50, Avionics Systems Architecture held in Ottawa, Canada.

**John Scott** (Code 09): For supporting the needs of the ORFI Systems, Inc.

**Sidney McCleary, Edward Whalon** (Code 50): For contributions to the Electronic Warfare Architecture Working Group and

**Richard Gleich** (Code 50): For Advanced Tactical Airborne Reconnaissance System support.

**Susan Poretta** (Code 60): For administrative support to the Medium Range Unmanned Air Vehicle project.

**Jonathan Harding** (Code 60): For contributing time to the Prime's Saturday Tutorial and Enrichment Program.

**Paul Bumgardner** (Code 30): For support in developing the Team "C" Master Plan for Command, Control Communications and Intelligence (C3I).

**William Ailes, William Birmingham, Alan Blumenthal, Stephen Campana, Gregory Catrambone, Gerald Ferguson, Kenneth Foulke, Arthur Krol, Ronald Kushnier, Ralph Lachenmaier, Joseph Laska, John Lee, Sidney McCleary, Paul Prichard, Warren Rosen** (Code 50): For outstanding assistance to the development and engineering of our new technology aircraft, the A-12, a success.

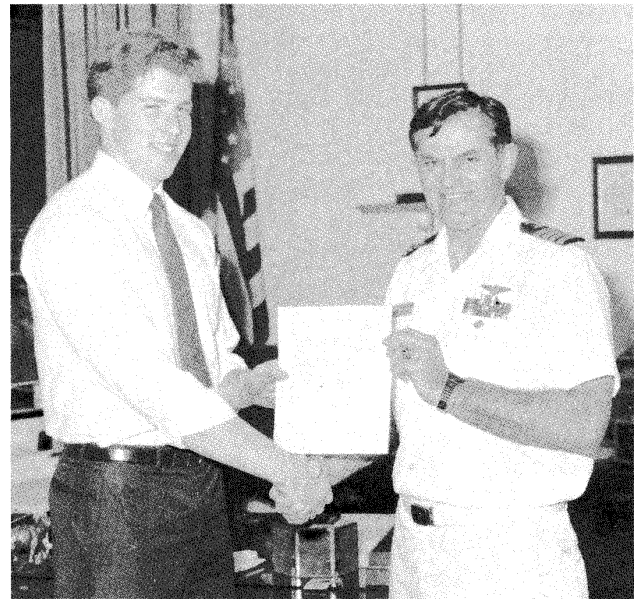


Photo by J. Jones

## Graduate study awarded

**Scott Livezey** of the Fixed Wing Carrier Based ASW Programs Division was selected to participate in the Center's Graduate Study Award Program for the 89-90 academic year. Livezey, who has worked at the Center for 2 years, will attend the University of Virginia in Charlottesville. Pursuing studies in Electrical Engineering, Livezey will apply his studies to mission software systems on the CV-ASWM project.

## Letter to the Editor

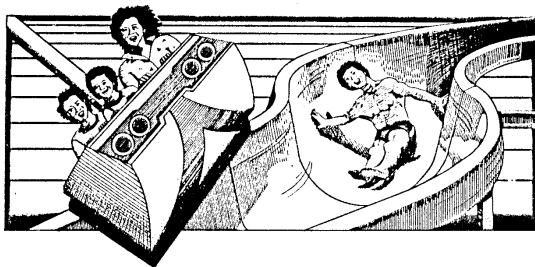
**From: The Driver**  
**To: The Editor**

As a singer of some unknown note, I want to recognize a couple of unsung heroes. Once upon a time, in the kingdom of Pennsylvania, a Navy van was transporting a number of people to a Wellness Work Seminar in the Poconos, a resort area of some renown. This van was piloted by a highly competent individual, which was fortunate for the passengers, because a tire blew, calling on all the skill the pilot could muster. After bringing the van to a stop, there were three passengers, who without a word being said, started changing the now obsolete tire. Manning the van lifting device, a veritable jack of all trades, was C.J. Winters, CAPT, USN,

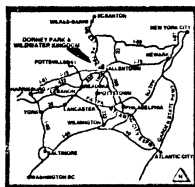
otherwise known as Skipper, and a team of two tigers attacking the lug bolts, W.F. Moroney, CAPT, USN, otherwise known as Doctor Bill, and P. Ayoub, otherwise unknown. Let me tell you, the lugs flew and before you could say Wellness Work Seminar and Neil Abramson, the tire was changed and we were once again on our way to a great learning experience.

These three unsung heroes of the road, CAPT Winters, CAPT Moroney and Peter Ayoub should be recognized for their muscular accomplishments above and beyond the call of duty. What with specialization, the Driver, being the van driver, stood by and watched the feverish activity. Well done men!

**The Driver**



## Don't Miss the Annual Outing



Coming soon . . . Dorney Park . . . NADC's Civilian W&R is again sponsoring a day of fun, sun, and prizes at Dorney Park and Wildwater Kingdom on 15 July. Tickets go on sale on 3 July at the W&R Office located across from the Credit Union. Cost of tickets: Adults \$14.; children 3-6 yrs./senior citizens 61-over \$9.00; children 2 and under free. Price includes both parks and food.

## Planned your vacation yet?

To help with all of your personal travel arrangements, call SATO Travel, ext. 2729, Mon. thru Fri., 8 AM to 4 PM.



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**Assistant Editor** ..... JO2 Michael DelleDonne  
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# Walters named new Mission Avionics deputy



LCDR Douglas Walters

By JO2 Michael DelleDonne

The Mission Avionics Technology Department (MATD) recently named LCDR Douglas P. Walters Deputy of MATD relieving Commander Richard C. Feierabend.

Walters, who recently transferred from the Warfare Systems Analysis Department, is looking forward to the challenge. "I'm excited about the opportunity," said Walters. "My background has always been in the Antisubmarine Warfare (AWS) field. I've been on ships that dealt with the ASW threat for three years. Now I

deal with the threat as a P-3 NFO. It's just a great situation because I'll be on the ground floor in research and development."

Though this is his first tour at NADC, Walters has dealt with the Center off and on since 1980. "I come here every so often to talk about development or software," he said. "There are a number of people in this

department that I have worked with in the past."

Walters, 37, from nearby Bethlehem, PA, has enjoyed his year at NADC. "It's a good opportunity working with civilians again; I enjoy the interaction. The fact that I'm close to home makes it even better. Of course, I enjoy the flying; it's a great deal."

## First-of-a-kind workshop held at NADC

Continued from page 1

Dr. Donald McErlean, Head of the Air Vehicle and Crew Systems Technology Department, was the key note speaker and gave a technology overview on Weapons Internal Carriage and Separation. McErlean concluded his speech by stressing NADC's ongoing efforts in this technology area, including developing a flying cavity test bed validating the NADC developed method for cavity flowfield predictions; validating the NADC developed tow target trajectory program by flight tests, and

continuing in the development of analytic methods for predicting store trajectories.

The twenty papers presented covered all aspects of WIC&S technology including wind tunnel test results of stores separation, aeroacoustic effect in cavity, Navier Stokes solutions to store separation problems, Influence Function Method applications and Advanced Integrated Armament Systems. The Workshop was organized by Dr. David Chen and Robert Turzanski of the Aero Engineering Division and Dr. Alex Cenko of the Aero Analysis Division.

## Financial managers meet

As the result of a request initiated by the Naval Air Development Center, Rear Admiral Stephen F. Loftus, Comptroller of the Navy, Office of Budget and Reports, Washington, D.C., addressed the Federal Financial Management Conference in Atlantic City, N.J. on 11 May 1989. The purpose of the conference was to provide financial managers (approximately 100 attendees) from Federal activities in the Philadelphia, New York-New Jersey, and Boston

areas with current information on a wide range of financial issues including current and upcoming initiatives. Rear Admiral Stephen F. Loftus spoke on "Navy Budget Realities 1990 through 1991." Budget restraints and belt tightening were conveyed during his presentation with no "real" budget growth anticipated during this period. The Center provided photographic coverage of the conference including the Admiral's visit on 11 May 1989.



Rear Admiral Loftus and James White, Deputy of the Financial Management and Planning Department take a break from the harsh budget realities covered during the Federal Financial Management Conference.

## Agnew takes annual BEACON volunteer award



Dennis Agnew (right) accepts Carnwath Award from District Justice Donald Nasshorn.

Dennis Agnew of the Materials Application Branch, Air Vehicle and Crew Systems Technology Department received the Samuel W. Carnwath Memorial award for the outstanding volunteer worker who wishes to continue his education in alcohol studies. District Justice Donald Nasshorn, Chairman of the Awards Committee presented the award to Agnew at the annual Bucks County Council on Alcoholism dinner in Langhorne.

## If the SOC fits

By Robert Janes

In March's column, I wrote about the latest government Standards of Conduct (SOC) statute, the Procurement Integrity Amendments to the Federal Procurement Policy Act. Since that column there have been some developments regarding this statute. For one thing, Congress acted to extend the law's effective date by two months, so it now stands to go into effect on 16 July 1989. In addition, regulations have been issued which help to explain and amplify this new law.

As we previously reported, much of the law simply restates things which were already prohibited. Thus, a Federal employee involved in an ongoing procurement may not: (i) discuss future employment with a competing contractor; (ii) solicit or accept gratuities from a competing contractor, or (iii) disclose any proprietary or source selection information regarding the procurement to anyone who does not have a need to know.

In addition, the law contains some brand new provisions. One of these is a post-employment restriction forbidding anyone who was involved personally and substantially in a procurement from working on that

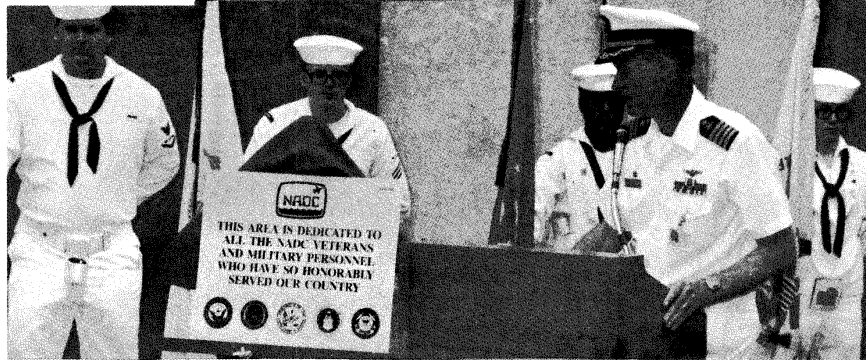
contract for the awardee during the next two years. This restriction will affect people far beyond our Contracts Division, for the regulations make clear that helping to define requirements, developing specifications or Statements of Work, performing technical evaluations, etc., are all activities bringing one within the scope of the statute. This particular restriction applies only to people leaving the government after the law's effective date of 16 July 1989.

Another change wrought by the act is the need to obtain certifications before the award of any affected contract. As of 16 July, no contract exceeding \$100,000 may be awarded until the Contracting Officer first obtains a certification from the contractor and from all involved government personnel that they are aware of nothing that occurred regarding the proposed contract that would violate the statute. We foresee the possibility of some delays in contract awards while contractors provide these certifications. In addition, the law requires us to provide training to our own employees so to educate them regarding its provisions. If you have any questions regarding the provisions of this statute, please feel free to contact us in the Office of Counsel on extension 3000.

# Veterans' Courtyard dedicated for Memorial Day

Culminating a 2-year effort by the NADC Veterans Committee, the Center's courtyard area was dedicated on May 26 to NADC veterans and military personnel.

Employees and local township officials including Representative Peter Kostmayer participated in the ceremony. An invocation, the playing of taps and a 21 gun salute completed the event.



Photos by  
NADC  
Photo Lab



## TRIBUTE to Personnel of the USS IOWA

"I had sailed with them and had crawled around their turret, shaken their greasy hands, felt the strong, sure grip that only a gunner's mate can give, seen the ready grin on their faces, and watched the steady and rough way they went about their work. They were good sailors . . . their deaths were a jolting reminder of the dangers faced by those who freely make their choice and serve at sea."

Secretary of the Navy, William L. Ball III relating an experience from a visit to the USS IOWA before the turret explosion.

(Submitted by Frank Drummond)

## Security reminder

**HOUSEKEEPING HINTS**—Keep material off the top of security containers, desk tops, shelves, etc. When there is an accumulation of papers, books, magazines, i.e., classified material could easily be mixed in and overlooked when securing.

### Somebody Goofed!



SECURITY VIOLATIONS DON'T JUST HAPPEN  
...SOMEONE CAUSES THEM!

## Energy efficiency on the rise

By Michael Blank, P.E.

Naval Air Development Center's total energy usage consists of averages of 84 percent electricity, 12 percent fuel oil, 3 percent natural gas and 1 percent propane gas.

Electrical use is heaviest in the late summer due to air conditioning. Fuel oil use is heaviest December through March due to the heating season.

As little as a 1 percent reduction in total Center energy consumption for only one month is enough for two years of heating, cooling and cooking for an average residential home of 1,728 square feet.

Sixty-five percent of single homes built in 1970 were for speculative sale. The builders were not concerned with energy cost. They did not worry about insulation, lighting and water heating systems or efficient heating and cooling units.

According to the Report of the Energy Project at the Harvard

Business School: "The American people are becoming more interested in and responsive to energy efficiency than in the past. Increasing efficiency in existing and new buildings results not just from one set of decisions or from overall fix, but from an interplay of factors - prices, incentives, regulation, research and development, changing techniques and methods of preparation, and changing human attitudes."

In order for an energy savings we must retrofit existing buildings or upgrade a complex system by improving all components of systems including the following:

### BUILDING ENVELOPE SYSTEM

- Caulk and weatherstrip complete building
- Install storm or thermal doors.
- Install storm or thermal windows.
- Install ceiling insulation and attic vents.

### HEATING AND AIR CONDITIONING SYSTEM

- Install clock set back thermostat
- Tune or adjust heating system
- Seal and insulate pipes and ducts
- Replace inefficient heater
- Install high efficiency air conditioner

### LIGHTING SYSTEM

### WATER HEATING SYSTEMS AND APPLIANCES.

### \* ENERGY "HOT LINE" ENERGY "HOT LINE"\*

1. Any energy violations during work hours (0730 1600) have to be reported to the Public Works reception desk (code 834) on x2700.
2. After hours (1600 0730) energy violations are to be reported to the Security dispatcher on x2097.