

# Family Day sees smiles and full house



Photo by Drew Schmith

Nicholas D'Apuzzo, former Center Commander CAPT Clifford Rigsbee (retired) and present Center Commander CAPT Curtis Winters cut the ribbon to unveil the Brewster aircraft undergoing restoration at NADC. The aircraft is being restored by a group of volunteers led by D'Apuzzo.

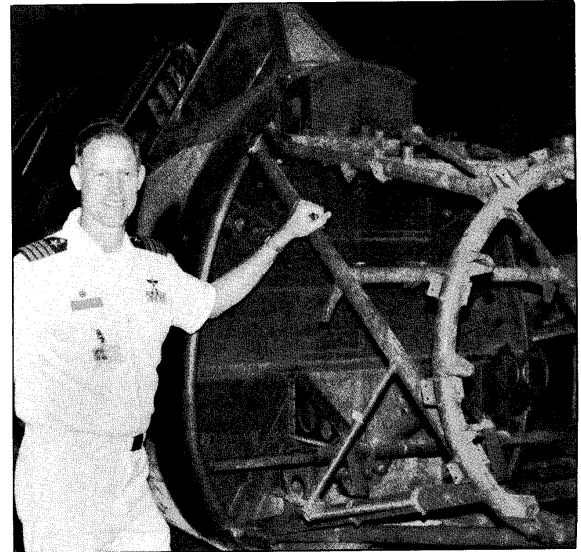


Photo by Drew Schmith

CAPT Curtis Winters admires the partially restored Brewster fuselage on display for Family Day.



Photo by Drew Schmith

LCDR Timothy Sestak, helicopter pilot, tours smiling visitors through a CH-53 helicopter.



Photo by Drew Schmith

Nearly 2,000 employees, family members, friends and contractors enjoyed the technical and aircraft displays throughout the day. Departing aircraft were a special treat.

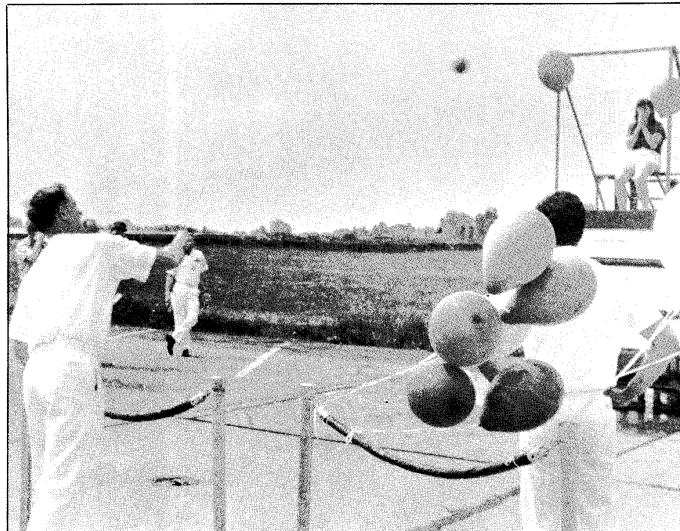


Photo by Drew Schmith

Is this anyway to treat an Ensign? CAPT Winters contributes to Navy Relief by attempting to dunk Ensign Kim Baker in the dunk tank. He was successful.

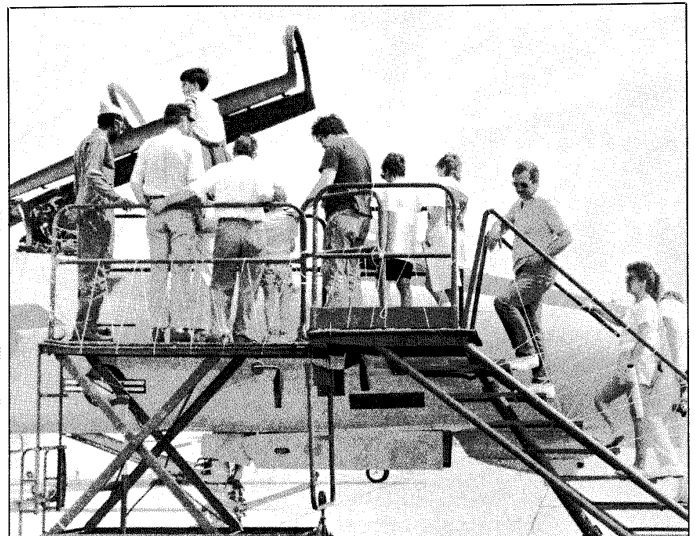


Photo by Drew Schmith

Youngsters and adults get up close to view the F-14 aircraft cockpit and talk with pilot CDR Winston Scott (far left). Scott is Deputy Head of the Tactical Air Systems Department.

# Wellness week: well attended and well done!

Even the least physical turned out to play in the Wellness Week activities coordinated by the Civilian Personnel Department's Neil Abramson and organized by various volunteers. A run, walk, 100 yard dash, bike race, volleyball and softball tournament fostered comradery, deep breathing and an increase in circulation. Guest speakers, blood pressure and cholesterol checks topped off the healthful week.

## Who they are; What they do

By JO2 Michael Delledonne

Aviation Antisubmarine Warfare Operator (AW) David Fridline wanted to fly. "I picked the AW rating because I wanted to fly and the rating guaranteed that I would."

Fridline, 23, a four year Navy veteran, described his job. "I am an acoustic operator on a P-3 aircraft. We hunt for submarines by taking different sounds and determining if it is in fact a submarine or something else."

Originally from Rochester, NY, Fridline graduated from Eastridge High School in 1983. After joining the Navy in 1985, he reported to NADC in February.

Though only here three months, Fridline noticed the differences between fleet life and NADC. "The stresses here are different than other duty stations I've been attached to. I think shore duty in general is different. It's a bit more relaxed."



AW David Fridline

## And the nominees are . . .

There are nearly one hundred honorary awards available throughout each year for which NADC's outstanding employees might qualify. However, unless deserving individuals are nominated, these awards will surely elude us. The nominations themselves are a way to recognize dedicated and diligent employees. Those awards accepting nominations through August 1, 1989 are:

- All Star Team Awards (Honorary)
- National Public Service Award (Honorary)
- Woman of the Year Award (Honorary)

For specific information about these or any awards, contact Bettie Simpson, Code 031, extension 3079.

One of the pleasant surprises of the Wellness Week Health Extravaganza was the amazingly competitive, single-elimination Softball Tournament which was held from 15-22 May 1989. The brainchild of Neil Abramson, Code 031, the tournament was organized by Jack Eyth, Code 60. All games were played at lunchtime with a format that was designed to take pitching out of the game and to enable a 7-inning game to be completed in less than 90 minutes. To accomplish this the rules included: 3-6 foot arc pitching, no walks, no umpires and a twenty-run rule in case of a runaway.

Nine teams entered the tournament each managed by a different department/division. Special thanks go to the team organizers: Security, Bruce Heath; Personnel, Dottie Kirkpatrick; CNTD Code 40, Dean Kimelhiem; Supply, Bob Cassagrand; Photo Lab, Cathy Burian; TACAIR, Code 20, Dorothy Gramlich; AVCSTD, Code 60, Mark Lilly; MATD, Code 50, John Andujar; and T&E, Code 90, LT John Hovland.

The Championship game featured an extremely close match-up between Supply and AVCSTD. The outcome went down to the last half of the seventh inning when Jack Eyth drove

home the winning run with a two-out single to gain a 4-3 victory for AVCSTD Supply's team captain, Bob Cassagrand, though noble in defeat, vowed to get revenge in next year's tournament.

The results of each game were:

Security 17	Code 20 7
Security 8	Code 60 Champs!
Personnel 5	Code 20 10
Supply 19	Code 90 BYE
Code 40 8	Code 90 12
Supply 19	Code 60 11
Supply 15	Code 60 BYE
Supply 3	Code 50 4
Photo Lab 1	Code 60 13
Code 20 BYE	Code 50 4



Volleyball champs: Jim Campana, Dawn Reiser, Larry Coar, Mike Lanier. Not shown: Mark Liparius, Chris Thompson, Paul Bier, Kevin Parson, John Whalen, Maria Cusanelli, Donna Morgan.



AVCSTD SOFTBALL TEAM CHAMPIONS

L-R: Jack Eyth, Steve Hynes, Sam Delservo, Scott Lassen, Steve Spadafora, Wendy Koenig, Carolyn Richards, Mark Lilly, Jeff Glatz, Jeff Thornton, Mike Searles.

Not Pictured: Dave Rose, Fred Kuster, Joe Bebey and Mary Conyers



Photo by Ensign Kim Baker

Bruce Heath of the Security Division takes a cut during Wellness Week softball competition.

## Naval War College comes to NADC

Continued from page 1

decision making ability. The role of the naval officer in today's fast-paced environment is a tough one, and it keeps getting tougher. A highly trained and educated officer has an edge over a potential enemy and can make better informed decisions in any given situation.

The Naval War College Nonresident Seminar Program offers the same three core courses (Strategy and Policy, National Security Decision

Making, and Joint Maritime Operations) taught in residence at Newport. Each course requires one academic year of 36 weekly evening seminar sessions to complete. Highly qualified professors, with support from lecturers from the Naval War College, lead the seminars.

The Naval War College will also offer seminars in Newport, RI; Norfolk, VA; Pensacola, FL; New Orleans, LA; Corpus Christi, TX; San Diego and San Francisco, CA; Seattle,

WA and greater Washington, DC areas this year. Students who cannot complete their studies in one area may continue in alternate locations or finish through correspondence study.

Students who complete the entire three course package will receive a Naval War College command and staff level diploma. In addition, many civilian colleges award graduate credits based on satisfactory completion of Naval War College courses.

# Center hosts AIAA

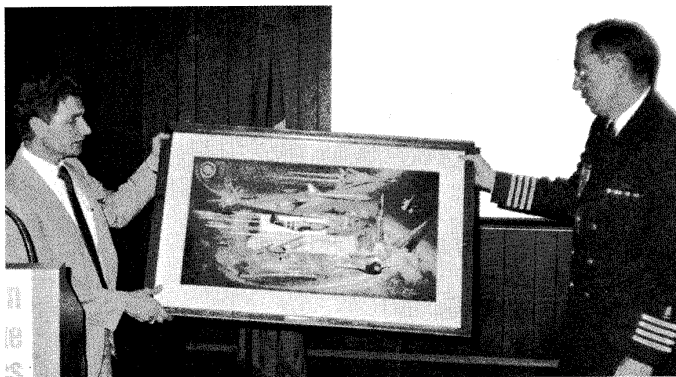
By Nicholas Onoroto

NADC and the Greater Philadelphia Section of the American Institute of Aeronautics and Astronautics (AIAA) hosted a technical luncheon at the Center on the V-22 Osprey. Bill Grauer, Section Vice Chairman and V-22 Project Engineer from Boeing Helicopter, Inc. captivated the audience with the history and technology behind the tiltrotor. Slides, test models, and actual film footage of the first successful V-22 flight on 19 March

1989 in Arlington, Texas were used to trace break throughs in the evolutionary aircraft.

The Center's Tactical Air Systems Department and Air Vehicle and Crew-Systems Technology Department are tasked by the Naval Air Systems Command to provide technical support for a number of areas including air system development, avionics, structures, crew systems, materials, and evaluation review of contractor designs.

The Center boasts over sixty active members of Greater Philadelphia's 600 AIAA members.



Nick Onoroto, AIAA Section Chairman and NADC employee, presents "The Evolution of Flight" to the Center, accepted by CAPT William Moroney. The original painting commissioned for the Institute is over ten feet tall and resides at AIAA's new \$5 million headquarters in Washington, D.C.

## Technical Highlights

### Successful Testing of LCSS

The baseline Low Cost Sonobuoy System (LCSS) program completed DT-IID testing. The performance of the deployed sonobuoys was satisfactory. Data obtained during these exercises will provide a basis for continued development of this type of sonobuoy. Enhanced designs are proposed for further development. The objective of this program is to provide an affordable passive broadband sonobuoy system capable of effective detection of current and future submarine threats.

### Acoustic Emission Monitoring System Tested

A portable Acoustic Emission monitoring system from the Royal Military College, Canada was installed and flown on an NADC A-7 aircraft. This system, which is designed to detect cracking of airframe components during flight, is being tested as part of a joint US-Canadian research project.

Initial flights on the A-7 aircraft were completed and the ability to produce controlled crack propagation in test specimens was demonstrated during specified high G maneuvers. Future flights will test the capability of the device more fully.

Additional test flights on a P-3 using this system and a more sophisticated NADC system are anticipated in June. If successful, this monitoring technique could produce large cost savings by reducing unnecessary disassembly of aircraft to inspect critical parts.

### Model 4.2 CV ASWM IOT&E on CVN-69

The CV-ASWM Model 4.2 System completed Interim Operational Test and Evaluation (OT-IIa) on board the USS DWIGHT D. EISENHOWER. This test demonstrated that the ASWM Model 4.2 system has the potential to be operationally suitable and operationally effective. OPTVEVFOR recommendation of Approval for Limited Fleet Introduction is expected.

### Final ATP SH-60F HSIF

Final acceptance testing was performed on the SH-60F Hardware Software Integration Facility (HSIF). The HSIF is a portable facility that

will be used to support both initial and life cycle software development for the SH-60F. The final report for the HSIF testing has been written and a recommendation for acceptance has been made to the Naval Air Systems Command.

### First P-3C CMOS Software Completed

The VP Program completed the final build of the K4.6 software for the P-3C Update III. This software package converts the CHEX software to operate on a modified (CMOS) CP-901 computer with 1 MB of CMOS used as main memory and a 3 MB Bubble Memory used for secondary storage. The K4.6.C software will undergo systems Quality Assurance testing (August 1989 completion) prior to a Fleet verification and validation. A demonstration of S4.6 System Test Program compatibility with the upgraded CP-901 is planned for September 1989.

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### Doppler Velocimeter System Installed

A proposal to provide a doppler water mass velocimeter system using NAVAIRDEVCCEN developed concepts was accepted and funding received from the Strategic Systems Project Office. The system will be installed on the SP-24 Navigation Test Vehicle USNS VANGUARD early in FY-90.

### UK Tours USNS MAURY

A briefing and tour of the new construction deep ocean survey ship, USNS MAURY, was given to representatives of the United Kingdom Hydrographic Office. The briefing highlighted the NAVAIRDEVCCEN developed SASS Phase IV bathymetric system which is being considered by the United Kingdom for use in conducting their ocean survey program.



AIAA Greater Philadelphia Executive Council members from NADC--Michele Finegan, membership, Steve Kern, young members, Nick Onoroto, and Bill Grauer, Vice Chairman, Boeing Helicopter, pose with the V-22 5% scale spin model. The model was tested at Boeing to determine the aircraft's spin characteristics prior to first flight. (Not pictured - Julieta Booz, Honors and Awards Chairperson.)

## NADC in the NEWS

The big news is...



News items about NADC appear frequently in the *Intelligencer/Record*, *Bucks County Courier Times*, *Today's Spirit*, and the regional edition of the *Philadelphia Inquirer*. However, more often news items about the Center are regularly found in trade publications such as *Aviation Week* and *Space Technology*, *Naval Aviation News*, *Defense News*, *Aerospace Daily* and the like.

As a means of assuring that NADC is, indeed, in the news, we will be listing here the kinds of news we have released and some of those publications where stories appeared.

The most recent news clippings include:

- The Philadelphia Inquirer, Apr 13, 1989, "Making science come alive for high school students"
- Today's Spirit, Apr 19, 1989, "NADC exceeds Navy goals"
- Bucks County Courier Times, Apr 21, 1989, "Bucks man wins world renowned MIT fellowship"
- The Philadelphia Inquirer, Apr 23, 1989, "NADC tops goals for contracts to small businesses"
- Defense News, May 8, 1989, "First fluid flight control system flown in formation"
- The Intelligencer/Record, May 10, 1989, "NADC honors Sailor"
- The Philadelphia Inquirer, May 14, 1989, "Heads above the crowd"
- Naval Aviation News, May-June 1989, "P-3 Testbed Aircraft"



## Rain delays playoff speculation



### Hole in one

Fighting overcast skies and intermittent rain at the Bucks County Country Club, AWC D. Myllenbeck Code 101X, Bob Palmby and Harry Pochik of Pacer arrived at the Par 3 170 yard sixth. Myllenbeck, with honors, selected a 7 iron and drove the ball which landed within 5 inches of the cup and rolled in. Myllenbeck finished the round with a low gross 86.

### Ski club plans new season trips

By Jim Macaulay

The NADC Ski Club was started in 1975 by a small group of friends who simply liked to ski together. The little club grew rapidly as more and more people realized the fun and benefits associated with group trips. The membership now approaches 200, and the dues are nominal.

What kind of people join the club? It's hard to characterize the typical member because his background is as diverse as NADC's employment profile, and then some! They are engineers, secretaries, spouses and friends, but all people who love to ski, and love the company of other skiers.

The main purpose of the club is to run ski trips. The standards are simply a good compromise between economy and comfort. Most trips use privately rented condominiums, because great comfort comes at a very reasonable price that way. And the limit is usually two to a room: no

By Jack Eyth

By this time in a normal softball season, teams are already jockeying for playoff positions. But the excessive rainouts experienced this year leave the ultimate outcome very much in doubt. While some teams, like the Guzzlers, have already played 9 games (with 5 left), teams like the Rebels have played as few as 3 games. As a result, the early trends and final standings are hard to predict.

One team which continues to shine regardless of the weather is the Intimidators. True to their name, they have managed to conquer all of their opponents and are still leading the league with a 7-0 record. Although few of their victories have been blowouts, they have won every close

one behind the pitching of Ken Bebbe (3.83 ERA) and a balanced hitting attack (11 hitters over .500). Other teams with winning records are the Rebels, Misfits, Eighth Inning, Granfallon, Renegades, Bandits and Herassers. Of this group, the 'Falloon has shown the most resilience. Though their roster was seemingly decimated by off-season player retirements, they continue to field an impressive line-up. Combining tight defense with the veteran pitching of Steve Torok, they are holding their own with a 5-2 record.

Late word from the Eighth Inning has Fred Kuster hanging up his spikes for good after receiving a knee injury in another league. If this is true, our league will be losing a fierce competitor and true leader. One team that is already going out with a "bang", the infamous Guzzlers, promises that the best is yet to come! Team co-manager John "Rock" Markow says that although the fan turnout has not been as large as expected, (averaging 2.5 per game plus an occasional dog), the team's hijinks are really starting to heat up as the regular season winds down and the team looks forward to the playoffs. It's this reporter's hope that the Guzzlers are watching the playoffs

from the field, and not from the stands.

The league standings as of 2 June 1989 are:

Intimidators	7-0
Rebels	3-0
Misfits	5-1
Eighth Inning	5-1
Granfallon	5-2
Renegades	4-2
Bandits	3-2
Herassers	3-2
Rumblers	4-4
Bearcats	3-3
Guzzlers	4-5
Dynatigers	1-4
Orange Crush	0-6
Phantoms	0-7
Life Supporters	0-8



"packing them in"!

The destinations are chosen carefully to provide good skiing for everyone. World class resorts such as Aspen and Vail, as well as smaller places like Lake Placid, are the typical fare.

What about the up-coming season? It may seem a bit early to worry about next Winter, but (believe it or not) many resorts are almost fully booked already! So a little band of hard workers has been meeting twice a month to plan the 89-90 season. And here are the results (so far):

A four day weekend in Colorado, a three day weekend in the East, a full week in Telluride, Colorado, and possibly a late season Western weekend, depending on demand.

Look for more information on these resorts in next month's Reflector. In the meantime, if you have any questions or suggestions, please contact Diane Heal at 441-7132.

### Boomer finally falls

By Pete Brown

50 W+R golfers competed in the rain for the 3rd time in a row during June's outing held at Fox Hollow Golf Club. Curt "Crusher" Swatchick out-distanced "Boomer Perry" for the longest drive, a wind-aided 327 yards on the 18th hole! Low net honors went to B. Finch and R. Reichert (63's), M. Drager (64), R. Jenkins (69), T. Madera and G. Boyle (71's). Low gross awards went to P. Brown (74), J. Sniscak (79), R. Miller (80) and "Crusher" Swatchick (80). Twenty-six

better-ball teams scrambled for "net" birdies, with B Whiteman and P. Brown winning with a 59. M. Drager and T. Karr tied with R. Jenkins and T. Calkins for 2nd place 60's.

Closest-to-the-pin awards went to C. Swatchick, #2, (12 ft.); B. Costanzo, #5, (5 ft. 9 in.); J. Sniscak, #7, (2 1/2 ft.); J. Vincent, #10, (3 ft.); B. Daymon, #12, (14 ft. 8 in.); and C. Dwtchick (again) on #17, (20 ft.).

See you in July at Warminster's 5 Ponds! (P.S. "Crusher" is selling his clubs for something to turn his game around!!)

## Mixed Bowling League News

By Tom Reiter

Our annual awards banquet was held on June 16th, and as usual we had a rocking good time. In addition to fine wine, food, and music, the following bowlers from both of our Divisions were recognized with an appropriate award. Names with an asterisk next to them had already received a higher award.

#### LEAGUE CHAMPIONS GUTTER DUSTERS

Wes Gleason (Captain)  
Ann Fowler  
Mary Vaughn  
Bruce Vaughn  
Aaron Davidson

Pam Kinsky  
Jack Kinsky  
Kathi Call  
Chris Zaccaria  
Dom Zaccaria  
Bill Flannery

#### DIVISION A CHAMPIONS RED WINDS

Tom Reiter (Captain)  
Ernie Wykes  
Mike Dent  
Bob Andrews  
Miriam Lentz  
Elaine Granieri  
Claire Bayer  
Debbie Erney

#### HIGH AVERAGE

Mike Dent 187  
Linda Stickney 163  
Wes Gleason 182  
Denise Beck 156

#### HIGH SERIES

\*Mike Dent 665  
Al Knobloch 616  
\*Linda Stickney 587  
Elaine Granieri 560

\*Wes Gleason 671  
Mark Lind 618  
Mary Feeley 559

#### HIGH SERIES WITH HANDICAP

Dave Oliver 710  
\*Linda Stickney 677  
Caroline Tierney 672

Aaron Burstein 726  
\*Mary Feeley 709  
Mary Williamson 695

#### HIGH SINGLE

\*Mike Dent 247  
Dick Coughlan 230  
\*Linda Stickney 226  
Lorraine Reidinger 218

Wes Gleason 262  
Steve Jerdan 231  
Mary Vaughn 225

#### HIGH SINGLE WITH HANDICAP

\*Dave Oliver 273  
Al Goldstein 268  
Vicky Schwartz 266

\*Aaron Burstein 291  
Tony Wolk 274  
\*Mary Feeley 266  
Eileen Bradley 265

#### MOST IMPROVED AVERAGE

Bob Connison +11  
Vicky Schwartz +14  
Ed Beach +12  
Steve Jerdan +12  
Janice Hinchliffe +9

#### SPECIAL RECOGNITION AWARD

Jim Campana 276