



- Non-smoker fuming
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\$13.7M approved for new aircraft technologies laboratory

By Mary Ann Brett

The Center's proposed Aircraft Technologies Laboratory is nearing reality with the recent approval of \$13.7 million for its construction in 1991.

According to the Air Vehicle and Crew Systems Technology Department the planned 65,000 sq. foot building will house extensive new facilities for continuing and expanding research and development in areas critical for the success of Naval aviation in future warfare scenarios.

These areas include composite materials for use in lightweight highly maneuverable aircraft; Rapid Solidification Technology powder metallurgy for low cost complex shapes and exotic alloys; high temperature jet engine turbine blade materials, coatings and composites; materials for corrosion protection of aircraft structures and avionics; lightweight hydraulic power systems; and, new adhesives, sealants, and lubricants for Naval aircraft.

"NADC leads the way in materials and structures technologies for aircraft," said Dr. John DeLuccia, head of the Aerospace Materials Division, "the new laboratory will be the keystone in maintaining our technological edge as we enter the 21st century."



Site of planned Aircraft Technologies Laboratory at NADC

Base closure commission excludes NADC

By Jim Kingston

For weeks prior to the public release of the base closure list, hardly a day went by without a call to our "Grapevine" hotline asking, "Is NADC on the list?" "When is the Center closing?" Well, the NADC hotline phone doesn't ring much any more . . . now that the big question has been answered — finally. The answer is: "None of the above!"

On Thursday, 29 December, live on C-SPAN and CNN, the Defense Secretary's Commission on Base Realignment and Closure made its report public. The report's findings and recommendations affect 145 DoD installations — but *not* the Naval Air Development Center.

After a collective sigh of relief, we can now march on safe in the knowledge that at least the politically motivated base closure lists on which we appeared are gone. However, on the cautionary side, a couple of final

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Aluminum alloys symposium makes industry allies

By Mary Ann Brett

The goals of the first Navy-sponsored aluminum-alloy symposium held by NADC recently were optimizing the uses and properties of aluminum alloys while potentially saving the government hundreds of thousands of dollars. The symposium, held at the Sheraton Valley Forge attracted nearly 100 key researchers from industry, academia and the military services.

Dr. William Frazier, a materials engineer in the Advanced Metallics and Ceramics Branch of the Air Vehicle and Crew Systems Technology Department, along with co-workers Mary Donnelan, Dr. Evi Lee and Dr. Jeff Waldman, orchestrated the three session meeting which addressed high temperature aluminum alloys, aluminum lithium alloys and metal matrix composites.

Frazier explained the advantages that could result from optimum use of these alloys. He said, "Aluminum lithium has the potential to increase stiffness by 10% in presently used alloys while also reducing weight by

10%. High temperature alloys, some developed here at the Center, could increase usable temperatures by 150° Centigrade. High mach vehicles able to use aluminum (which has a density of 2.7) instead of titanium (density 4.5) could realize significant weight savings."

Many favorable comments were exchanged in both directions, agreed the symposium coordinators. Said one,

"we learned what capabilities are available off-Center and they are now aware of what we do and what we need."

"For the first time," said Frazier, "attendees were able to hold in-depth discussions on specific critical issues and hear the Naval aircraft community's needs, concerns, desires and goals in this new and emerging technology area."

Small business goals exceeded

By Jim Kingston

NADC has exceeded its small business contracting goals by a significant margin for the fiscal year ended September 30th.

According to John D. Scott, Deputy for Small Business, against a total direct purchasing authorization of \$186 million, the Center directed 44% or \$82 million to small businesses. Our overall small business goal was 39%.

In a further breakdown of these

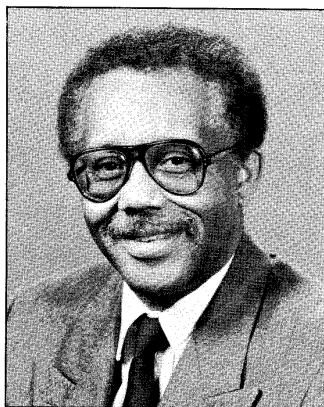
goals, Disadvantaged/Minority businesses were budgeted for 7.7% and received 9.7% or \$18 million. Women-owned businesses were targeted to receive \$1.5 million and ended up with nearly \$2 million.

This is the third time NADC has exceeded its small business goals. Earlier this year, the Center received the Secretary of the Navy "Omnibus Award" for Small and Disadvantaged Business Utilization in recognition of its 1987 achievements.

Command Corner



Captain Curtis J. Winters
Center Commander



Guy C. Dilworth, Jr.
Technical Director

To all hands:

HIGH VISIBILITY, LONG-TERM, OFF-CENTER MANAGEMENT/EXECUTIVE DEVELOPMENT PROGRAMS

The continued development and growth of our technical and support personnel are human resources goals consistent with both employee and organizational objectives.

With this in mind and to assist in career development planning, below are listed those key off-Center, long-term (4 months or longer) career enhancement and development opportunities we believe should be undertaken by future leaders of this Center. The list is not all inclusive and we realize that individual aspirations and/or organizational necessities may suggest additional developmental opportunities.

We are committed to improving our

long-term development and reentry program. Both the Civilian Personnel Department and the Warfare Systems Analysis Department are currently developing initiatives which will enhance the opportunities available.

Individuals interested in taking advantage of the numerous career development opportunities available are encouraged to discuss their career development plans with their management chain. Detailed information regarding the specifics of each of the opportunities may be obtained from John Markow of the Employee Development Division who can be reached on extension 1026.

To all hands:

POLICY ON PREVENTION OF SEXUAL HARASSMENT

We are committed to ensuring that all employees, (particularly managers, supervisors and team leaders), know and understand their responsibilities in recognizing and preventing sexual harassment in the work environment. The Department of the Navy (DON) defines sexual harassment as a form of sex discrimination involving unwelcomed sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when: (a) submission to or rejection of such conduct is made either explicitly or implicitly a term or condition of a person's job, pay, or career; or (b) submission to or rejection of such conduct by a person is used as a basis for career or employment decisions affecting that person; or (c) such conduct interferes with an individual's performance or creates an intimidating, hostile, or offensive environment.

Sexual harassment in any form will not be tolerated at the Naval Air Development Center or in any of its work-related environments, such as temporary duty stations. Specifically, no person shall threaten or insinuate, either explicitly or implicitly, any behavior as defined above. Other sexually harassing conduct in the workplace by supervisors or nonsupervisors is also prohibited, e.g.,

offensive sexual flirtations, advances, propositions; continual or repeated verbal abuse of a sexual nature; graphic or verbal commentaries about an individual's body; sexually degrading words to describe an individual; and displaying sexually suggestive objects or pictures in the workplace.

An equitable work environment for all is necessary to maintain morale and ensure teamwork and professionalism. The responsibility to create a productive working atmosphere free from sexual harassment and to protect the rights of DON employees, both civilian and military, is a top priority issue. Conduct violating this policy will result in disciplinary action up to and including removal.

It is the responsibility of every supervisor and manager to inform their employees, and those dealing with Center employees, of this policy and to ensure that any instance of sexual harassment is dealt with in a prompt, remedial manner. Employees subjected to acts of sexual harassment should inform their supervisor or contact the Equal Employment Opportunity (EEO) Office, on extension 3061. The EEO Office is available for further guidance and training.

PROGRAM	NOMINATION DEADLINE	START/END DATES
Naval Scientist Training & Exchange Program (NSTEP)	Varies	Varies
National War College	5 Jan	Aug - Jun
Industrial College of the Armed Forces	5 Jan	Aug - Jun
Naval Postgraduate School	15 Jan	Oct - Sep
Graduate Study Award Program	15 Jan	Sep - Jun
Naval Science Assistance Program (NSAP)	Feb	Aug - Feb (18 mos)
Naval War College	1 Feb	Aug - Jun
Defense Systems Mgt College	15 Mar 15 Sept 15 Dec	Jul - Dec Jan - May Apr - Sep
Princeton Mid-Career Fellows Program	1 Apr	Sep - Jun
Fleet Assistants	Apr	Apr - Mar
Harvard Business School	15 Jul 15 Oct	Sep - Dec Jan - Apr
PhD Fellowship Program	1 Dec	Sep - Varies
Sloan Fellows Program — MIT	1 Dec	Jun - May

GUY C. DILWORTH
Technical Director

C. J. WINTERS
Commander

Letter to the Editor

DESIGNATED SMOKING AREAS

"Since the announcement of designated smoking areas, I have noticed an increased discomfort due to smoking. This discomfort is largely due to the fact that smoking is limited to corridors and therefore has become more concentrated in public areas.

"The location where my complaint is the largest is outside the auditorium. I was under the impression that smoking areas would be limited to back corridors, not main hallways. Since I suffer an allergy to tobacco, I truly resent the fact that an area I must pass through to get from my office on the

second floor of building 2 to anywhere else on base is designated as a smoking area.

"Another problem that has occurred since this new policy has been in effect is there is no enforcement of the designated areas. Some smokers have assumed the right to smoke in any corridor, whether it has been designated as a smoking location or not. More of these smokers also insist on walking with a lit cigarette, and on crushing the butt of the cigarette onto

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Commander, NADC	CAPT Curtis J. Winters
Technical Director	Guy C. Dilworth, Jr.
Public Affairs Officer	James S. Kingston
Editor	Mary Ann Brett

Technology:

Base of the future; future of the base

By Mary Ann Brett

More than a year ago, the Technology Base Office (TBO), Code 01B, was established at NADC. Let's take a look at how this office fits into the fabric of the Center.

The TBO consists of the Technology Base Manager (TBM), Dr. Arno K. Witt, and a staff of four. Witt, a former Manager of the Electro Optical Development Division, has been at the Center since 1963 and has received a B.A. and Masters degree in Physics from the University of Pennsylvania and a Ph.D. in Physics from Drexel University.

Our Technical Director (TD) Guy Dilworth, describes the TBM as "my V.P. for technology matters." Witt describes himself as responsible for liaison with the Office of the Chief of Naval Research and the Systems Commands (SYSCOMS) technology managers as well as a member of the consortium of Navy laboratory technology base managers. Witt considers his Center role a rather delicate one. Although responsible for 6.1, 6.2 and 6.3A programs from the Center's perspective, he has little direct control or management of individual projects.

"... we must support innovative ideas ..."

"My primary goal," says Witt, "is to strengthen our technology base as related to our mission areas and Center thrusts. To do this in today's economic environment we must support innovative ideas, leverage our own and industry's technology efforts, and ensure successful transitions within our technology base. This office must create a balance of our technology base resources to meet those Center thrusts."

Witt has more direct control over several programs which can support the technology base. The largest of these is the Center's IR/IED Program. Approximately \$4M dollars are received annually by NADC from

OCNR to be used at the discretion of the TD for Independent Research and Independent Exploratory Development projects.

The Industry IR&D Program, through the Department of Defense, is provided billions of dollars to perform research and development projects of their own choosing. The TBM is employing new techniques which will make it easier for the Center to participate in this program.

Center monies are made available for up to 15 Summer Faculty Fellows to visit the Center and perform research for 10 weeks during their summer break. Close attention will be paid to match these efforts to needs.

Dr. Asha Varma, as Witt's assistant, is involved in all aspects of the Office. She plays a major part in the management of the IR/IED Program. A prolific author with several reference books to her credit, Varma came to NADC in 1983 and was the Team Group Leader for Research in the Materials Production Branch of Code 606. She received her undergraduate and Masters degrees from Bareilly College, and her Doctorate from Banaras Hindu University, Varanasi, India.

Jerry Polin, in managing the IR&D Program is a principal interface with our industrial technology base counterparts. Before becoming part of the TBO, Polin's principal effort at NADC evolved around his human factors expertise in Code 60. He has undergraduate degrees in Aero Engineering and Psychology from Princeton and New York Universities respectively, and a Masters in Educational Psychology and an M.B.A. from Temple University.

Michael C. Kreuter has a Bachelor's degree in Electronic-Physics from LaSalle University and has varied experience at NADC since coming from General Electric, Reentry Systems Department in 1967. Kreuter is responsible for interfacing the Block Programs (which encompass the majority of development work accomplished at the Center) with the other technological efforts of the Center. According to Witt, Kreuter brings a wealth of systems knowledge to this position. His knowledge of the Block Programs is an important input



Photo by Clarence Watson

The Technology Base Office personnel, Code 01B, gather for a staff meeting. L to R: Dr. Asha Varma, Jerry Polin, Rita Breitenbach, Dr. Arno Witt, Michael Kreuter and Carol Van Wyk.

"... applied technical expertise ... gives our products the value added."

for the TBM.

Carol Van Wyk has been at NADC for three years, originally part of the Planning Assessment Resources organization. Her undergraduate degree from Hope College, Michigan, is in Biology with a Chemistry minor. She has a Masters degree in Teaching from Temple University and her last position outside was that of the Chairperson of the Science Department at the Hatboro-Horsham school. Carol is responsible for all the Center's programs involving academia.

Witt feels "This Center's make-up has always been application oriented. It is this applied technical expertise at all levels of the technological hierarchy (research through production) which gives our products the 'value added' and distinguishes us from the SYSCOMS' role. I don't believe our applications thrust should change," he said. "We have that proper mix of pure research and application engineering and the imbedding of our research within our application engineering
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Technical Highlights

Automated Weather Observing System

During December, an engineering site survey of the Naval Station, Guantanamo Bay Cuba was conducted. This was the last of 65 site surveys conducted by this Center over the last 15 months for the purpose of defining the requirements for an Automated Weather Observing System (AOS). AOS will modernize and automate surface weather observations at Navy and Marine Corp air stations to improve the safety of flight operations.

High PRF Adaptive Interference Cancellation

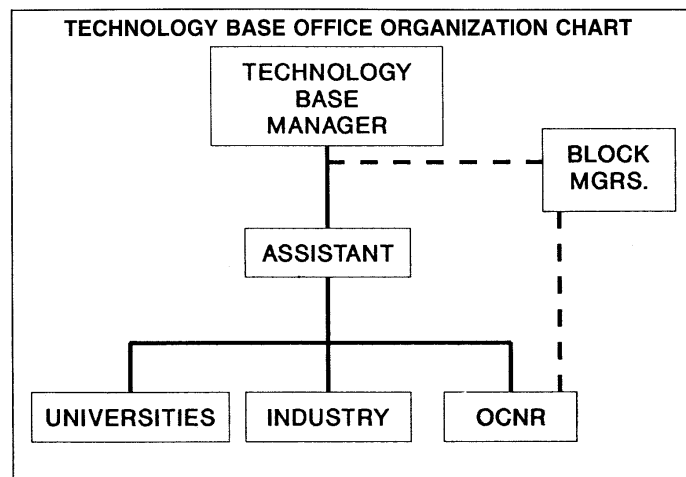
Navy airborne early warning (AEW) radar systems traditionally have operated at low pulse repetition frequency (PRF); however, future systems will operate at high PRF. Implementing a sidelobe canceller in high PRF radars is complicated by the increased clutter return at all ranges compared to low PRF radars. A technique to cancel jamming interference in the sidelobes of high PRF radar systems is being tested in the high PRF adaptive interference cancellation project. A demonstration system is being built for the HARPSS high PRF AEW radar system. In

December 1988, NADC implemented a digital synchronous demodulation system (I and Q detector) in hardware. This system provides state of the art performance (.1 degrees of quadrature match) which is required in order to cancel the jamming energy.

Centrifuge Modifications Proposed

The Aero Structures Division has developed a finite element model of the Center's centrifuge arm structure using the Graphical Interaction Finite Element Total System (GIFTS) to ensure continued safe operation (i.e., the arm structure has a long history of weld cracks) and to evaluate contractor proposed structural modifications which are intended to eliminate undesirable dynamic motions experienced during centrifuge simulations. Initial static and dynamic analyses were completed and results verified by conventional National Aeronautics and Space Administration Structural Analysis (NASTRAN) analyses. A longer term goal is to have an accurate model of the centrifuge such that structural deflections can be accounted for in the development of the simulations.

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'Twas the season at NADC



Photo by Margaret Vigelis

Above: Anxiously waiting children finally get to greet Santa as he arrives at NADC to distribute gifts.

Right: The NADC Choral Group conducted by Helen Keller-Surman provided musical entertainment.



Photo by Margaret Vigelis

By Margaret Vigelis

The Naval Air Development Center's civilian Welfare and Recreation Association (W&R) hosted its annual Orphans Christmas Party on Saturday, 17 December, 10:00 am to noon in the Center's cafeteria. This event has been a tradition here at NADC for the past 35 years.

More than 100 children, toddlers to teens, from Bethanna and Christ Home located in Southampton and Warminster, respectively, enjoyed pizza, soda, ice cream, and entertainment highlighted by a visit from Santa who arrived on an NADC fire truck.

To start the festivities, a play was presented by ten students from Council Rock High School Drama Club Director's Class followed by carols sung by NADC's own Choral Group, then the Center's Commander and his wife, CAPT and Mrs. Curtis J. Winters, introduced the main attraction, Santa Claus, who presented a gift to each child.

W&R contacts Bethanna and Christ Home in early November, providing them with Sears Wish Books (Sears Catalogs) to give to the children to pick out a toy or clothing they would like for Christmas — up to \$20. Then Santa's W&R elves buy the gifts selected, wrap and tag each one, and make sure each child gets what he or she wished for.

From \$2500 to \$3000 is donated by the Welfare and Recreation Association, from funds contributed by employees through our membership drive, film sales, ice cream sales, etc., to cover the cost of this worthwhile event.



Photo by Jim Kingston

The traditional Toys for Tots campaign, sponsored by the U.S. Marine Corps once again produced barrels full of toys for needy children in the area. Here, NADC's Marine Liaison Officer Major Barry Hansen (left) and CAPT Steve Taylor, USMC, Toys for Tots coordinator for Montgomery and Bucks Counties are among the first to place a toy in this year's barrel.



Photo by Jim Kingston

Other holiday activities included the NADC Officers' Wives Club annual Christmas Bake sale. The homemade cakes, cookies and confections didn't last long but proceeds will long benefit the various charities to which the OWC contributes.

EEO is for everyone

“PEOPLE” is the aim

American Forces Information Services

Some 122 representatives from 37 states, the Virgin Islands and the military services gathered in Atlanta last July to plan for the fourth national holiday honoring Martin Luther King Jr.'s birthday. His widow, Coretta Scott King, challenged them to use the holiday to bring more "meaning and substance to the elimination of poverty, racism and violence worldwide."

King's birthday anniversary is celebrated on the third Monday of January each year. This year's DoD worldwide observance ran from Jan. 6 through Jan. 16, to coincide with the dates of the national tribute.

This year's theme is: "Living the Dream: Let Freedom Ring! (for universal peace with justice, human rights, social and economic progress for all peoples through Kingian non-violence.)"

The 'Living the Dream' theme will be emphasized in the secretary of defense's letter to the services worldwide. "The service secretaries are encouraged to participate in such a way that it will translate down to the installations."

Holiday observances around the world included such activities as a fashion show, golf tournament, dance and luncheon in Japan; a prayer breakfast, fashion show and disco dance in Korea; a tree planting, plays, skits, gospel choir concerts, youth activities, Department of Defense Dependent Schools activities and a marathon in Europe; and a prayer breakfast, fashion show, essay contest and youth activities. Here at the Center, a videotape entitled "An Amazing Grace" was shown in the auditorium for Center employees.

The holiday commission asked that

celebrations be aimed at "people to work with people to help people." Some social problems they intend to focus on include substance abuse, teen-age pregnancy, school dropouts and pushouts, homelessness, hunger and illiteracy.

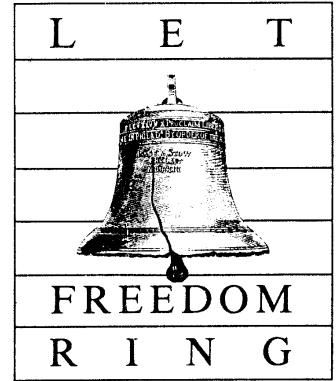
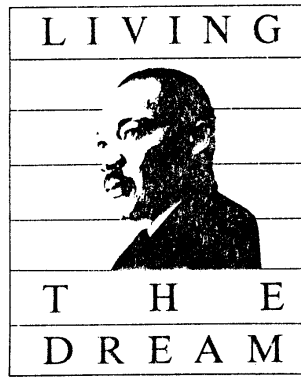
Activities should "touch the lives of those in need, including children at risk, senior citizens, the handicapped, persons suffering from injustice, victims of discrimination and the disenfranchised," according to the Martin Luther King Jr. Heritage Action Projects.

Atlanta, King's birthplace and the site of the Martin Luther King Jr. Center for Nonviolent Social Change Inc., is the centerpiece of the annual observance. Special activities are focused on the nation's capital.

San Francisco is being considered as the site of the American segment of the international observance. San Antonio has been recommended to become the regional center for the annual Southwest observance.

Philadelphia was the centerpiece for the bell-ringing ceremony. When the Liberty Bell tolled there at 12:30 EST on Monday, Jan. 16, 1989, it signaled the pealing of replica Liberty Bells throughout the nation and around the world. The bells called for the holiday to be a day of universal peace without acts of violence or war.

In Washington, the national holiday events took place on Monday, Jan. 9, 1989. The observance included a presidential proclamation ceremony at the White House, a peace and justice service in the Rotunda at the U.S. Capitol in cooperation with national peace organizations and the Vietnam Veterans Association, a diplomatic reception at the State Department and a musical tribute to King, at the Kennedy Center Concert Hall.



Meet the challenge:

New EEO counselors needed

From the DEEO Office

Are you an objective employee who likes challenging assignments and who is personally committed to the promotion of equal employment opportunity?

The EEO Officer is now recruiting for EEO Counselors. All full-time permanent employees are eligible who have their supervisor's approval (takes about 5% of your work time).

The major duties of EEO Counselors are to gather the facts of a complaint and to prepare a report based on this information. A complaint may be filed when any employee or applicant for employment perceives that they have been discriminated against based on their race, religion, color, national origin, age, sex (including sexual harassment), handicap (mental or physical), or reprisal for prior EEO complaint involvement.

Counselor's will be selected based on skills in: analyzing and interpreting facts, identifying problems, reporting findings, writing and speaking

effectively, and meeting important deadlines.

One EEO Counselor, Jeff Davidson, Code 101, Electronics Engineer, Ext. 1201, spoke about Counseling, "I have found that being an EEO Counselor is a very interesting and stimulating job. It's a change from the technical engineering world. Typically, a person feels they have been discriminated against on their job, usually by a supervisor, and it's my job to try to bridge the gap between these two people and hopefully resolve the problem issues. It's a challenging job trying to solve problems between people."

Other EEO Counselors include Hazel Andrews, X2373, Code 8423; Ira Bellew, X1175, Code 5051; Carla Crist, X3921, Code 0214; Thomas Herbert, X1460, Code 1042; Chris Kirk, X1092, Code 02B; and Robert Moore, X1859, Code 8122.

Closing date is January 31, 1989. Call the EEO Office, X3061/2 or any Counselor (pictured on bulletin boards across the Center) for more information.

Fear: not a good reason

By Mary Ann Brett

The American Red Cross Society will once again pay its quarterly visit to NADC on March 1 and 2, 1989.

In the past, hundreds of Center employees and contractors have donated during each visit.

Each donor has his/her own reason(s) for giving blood, and there are many valid reasons for not donating. But, if your reason for not donating is fear of the unknown, perhaps this information will make the process a little more familiar.

According to the American Forces Information Service, before you can give blood, you will be medically screened and must pass a comprehensive evaluation. Not everyone who wants to give blood can, and there's always a need for donors to fill the annual demand of more than 12 million units of blood.

There are four types of blood: Group O is the universal blood type and is always needed. Group A is the next most common. Group B is somewhat rare, followed by Group AB — a

valuable blood type for obtaining plasma.

If you pass the test, your local medical people will be glad to take a pint.

Donor selection criteria have been created to protect the donor, the blood supply and the blood recipient.

Who can donate? Most adults (aged 17 to 65) in good health. Donors should weigh at least 110 pounds; smaller people can, however, give a proportionately smaller quantity.

How often can you donate? Bi-monthly—you should normally wait at least eight weeks between donations.

If you qualify this far, the next step is a simple medical exam:

- **Blood sample**—taken from your finger or earlobe to determine the red blood cell volume.
- **Pulse**—should be between 50 and 100 beats per minute; less is acceptable for athletes and people who are physically fit.
- **Blood pressure**—should be no higher than 180 over 100.
- **Temperature**—should not be

higher than 99.5 degrees Fahrenheit (37.5 degrees Celsius).

If those four areas are in good shape, the next step is to provide a detailed medical history and current state of health.

Have you ever:

- coughed up or vomited blood?
- had tuberculosis, kidney or liver disease, heart trouble, Rheumatic heart disease or asthma, lung or stomach disease, cancer, diabetes, ulcers, lymph gland disease, leukemia or infectious mononucleosis?
- experienced chest pain or shortness of breath?
- had convulsions or fainting spells or previous blood donor reactions?
- had hepatitis, yellow jaundice or a positive laboratory test for hepatitis?
- injected any type of drug into your veins or skin?
- been treated for syphilis or had another sexually transmitted disease?
- been rejected as a blood donor?
- been notified that a patient who received your donated blood had hepatitis?

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Pay days to change this summer

By Mary Ann Brett

According to a recent Navy message, Navy civilian paydays will be standardized this summer.

Currently, paydays for Navy civilians vary from the first Thursday to second Thursday following the pay period. Under the civilian pay policy change detailed in ALNAV 176/88, paydays for Navy civilians will be held eleven days, or the second Wednesday.

This policy change is effective July 12, 1989 and applies to Navy civilians, except military sealift command civilian mariners, who are paid semi-monthly. This policy change does not apply to non-appropriated fund employees. For more information, see your local pay clerk.

We will publicize the method of implementing this change as it becomes available.

Fleet science advisors needed

By Robert Zaleski

The Navy Science Assistance Program (NSAP) will begin to recruit for FY-90 Science Advisor (SCIAD) vacancies in February.

The NSAP is a fleet-support organization established to provide assistance to numbered fleets; type commands; fleet commanders-in-chief; and the fleet Marine forces, U.S. Marine Corps. Designed primarily to solve immediate operational problems, NSAP draws its SCIAD's from the Navy laboratories and RDT&E centers.

Aimed primarily at GM-14 scientists and engineers, the successful candidate receives a temporary GM-15 and a one-year tour of duty to an operational site.

The positions have an optional one-year extension. Tentative operational sites for the FY-90 field team include COMSECONDFLT, Norfolk, VA; COMTHIRDFLT, Ford Island, HI; COMSEVENTHFLT, Yokosuka, Japan; and COMNAVSURFLANT, Norfolk, VA. Deployment will be in August 1989.

At this time, it is anticipated that the positions will be recruited as Permanent Change of Station moves. The NSAP Director is currently requesting a waiver from the limitation of TDY travel (which is 12 months).

The NSAP Coordinator for NADC is Robert Zaleski of the Fleet Interface Office (Code 30D), extension 3104.

Letters to the Editor

Continued from page 2

the floors. This has increased the hazard to our health, not decreased it.

"At other government installations and major airframe companies, smoking is restricted to the outdoors. If this is too extreme for the smokers, then I propose that ONE area in each building be designated for smoking. This area should be enclosed so non-smokers do not have to suffer from the smoke. I feel that this is an arrangement that would satisfy all parties.

"At the very least, please change the policy immediately so smoking in the

hallway and bathrooms is prohibited, and leave it to each office to decide on their own policy. I respect a persons right to smoke, as long as that right does not infringe on my right to breathe fresh air and to be allergy free."

Janet L. Wild

Commander Salutes

Robert Berry, Harry Deal, Maxwell Zelikoff (Code 00), **Edward Peterson** (Code 04), **Robert Finkelman** (Code 05): For volunteer participation in the Introduction to Navy Internal Review training program.

Timothy Springer (Code 60): For support to the Habitability and Ancillary Systems Section at the Naval Air Systems Command.

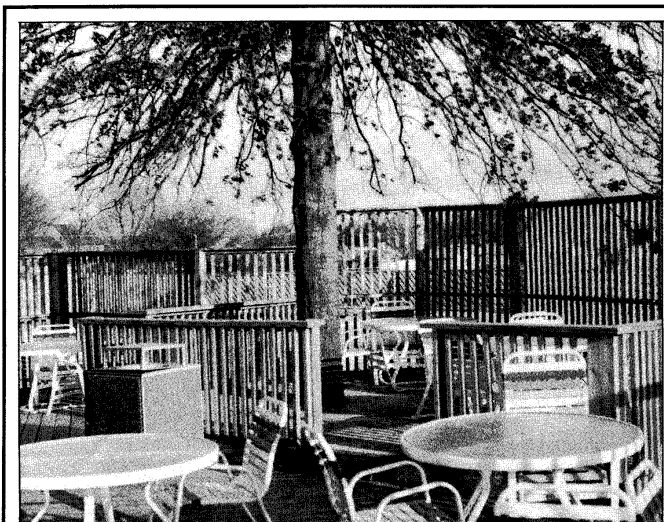
LT Richard Erickson, Suzanne Reeps (Code 60): For exceptional knowledge and professionalism resulting in the nomination for the 1987 Outstanding Naval Aerospace Physiologist and the 1987 Special Award in Aviation Physiology, respectively.

Richard Chern, John Markow (Code 03): For valuable assistance to the 79th U.S. Army Reserve Command during a recent training session at NADC.

James Henderson, Harvey Clarke (Code 60): For participation in this year's National Disaster Medical System exercise.

Steven McComas (Code 10): For valuable support to the Naval Air Systems Command on the 3-3 aircraft weapon system.

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A breath of springtime — This site might be unfamiliar to you but, believe it or not, it is a new addition to the Center at the Crews' Rest Club. Thanks to volunteers participating in a self-help project for the Recreational Services Division, more than 100 people can be accommodated on this spacious deck that extends across the rear of the Club and faces the pool. Think spring!

OOPS — In Frank Drummonds' Letter to the Editor printed in the December 1988 REFLECTOR, both references to Indefinite "Quality" Contracts should have read "Quantity".

NADC eludes base closing list

Continued from page 1

comments in the Commission's report do affect us: one that "Military laboratories should be more carefully scrutinized..." and a recommendation that a task force should "... review ongoing activities and the relationship between in-house versus contract work."

Congressman Les Aspin, Chairman of the House Armed Services Committee, held a press conference following the release of the report. He

commented that if any criticism could be made of the recommendations it would be that the Committee's actions were too modest. Aspin also noted that some of the lesser activities on the list were "givens" that really did not require committee action for closure. He pointed out that of all the services, the Air Force took the greatest hits with five major air bases slated for closure. The Congressman also noted that, in effect, this list will give a reprieve of 10 years to many DoD installations. Responding to a

question, Aspin agreed that bases could continue to be recommended for closure by the Secretary of Defense, but that such recommendations must accompany the annual Defense budget when it is submitted for approval.

Defense Secretary Carlucci has already given his stamp of approval to the report which now goes to Congress for its yea or nay. However, it is strongly expected that Congress, too, will approve it.

Home humidification help heat, health

By Dr. Michael Blank

According to Webster's Dictionary "Relative humidity is the ratio of the amount of water vapor actually present in the air to the greatest amount possible at the same temperature." When you heat your home, a variety of problems can be caused by a low relative humidity.

You'll feel warmer at lower temperatures, so you can dial down your thermostat and *save energy* without sacrificing comfort. In addition

doctors have pinpointed excessive dryness as the cause for nose, throat and other physical aggravations. In cases where dryness is diagnosed as the cause of these aggravations, doctors prescribe whole-house humidifications.

Please note that condensation of water on the inside windows in the form of fogging or frost is usually an indication of too-high relative humidities. Be sure to keep the fireplace dampers closed when not in use. They provide an excellent escape route for heat, as well as humidity.

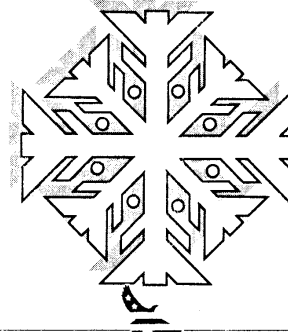
Security Reminder

GOVERNMENT PROPERTY— Personnel who have signed for custody of Government Property are responsible for the maintenance, safekeeping, and accountability of the property. When property is discovered missing, lost, or stolen, the custodian

will attempt to locate the property through adjacent areas and inquiry among co-workers. If items cannot be located within one (1) hour, the IMPR (Internal Missing Property Report) Coordinator must be notified. NAVAIRDEVENINST 5500.4A applies.

HOW DO U.S. SAVINGS BONDS RESEMBLE SNOWFLAKES?

Answer: When purchased regularly, through your payroll savings plan at work, they just keep piling up. Save something each payday and before you realize it you will have a significant fund put away for a child's education, retirement, or a very special vacation. Bonds pay competitive interest rates, have tax advantages, and are safe. Ask about them where you work. Start yourself a blizzard.



U.S. SAVINGS BONDS

Technology: base of the future

Continued from page 3

gives focus toward satisfying Navy needs. If we must augment our research we can do it through academia and other means available to us."

Although in a management position, Witt considers himself a "hands on" scientist who is definitely on the side of the scientist and engineer and tries to interact with them personally. "If we are to strengthen our technology base, which I feel is the corner stone of the Center," says Witt, "then we have to apply common sense in spite of all the bureaucratic regulations and other hindrances to getting the job done. We must minimize the micromanagement of our scientists and engineers and allow them as much freedom as possible to be innovative even if mistakes are made."

Witt recognizes that technology is of no value unless it finds its way into the fleet. "The transition of technology is the end goal of this office," he

"... transition of technology is (our) end goal ..."

emphasized. "I am not only concerned with smoother transitions within the tech base but also in the final application.

"Another goal of mine is to improve the interaction of the Center principals. Our mission is supported by a tripod made up of the ASW and TACAIR Departments along with our Technology Base. The Warfare Systems and Analysis Department provides stability to that tripod and insures the proper perspective between technology push and technology pull. The relatively new instruction (NAVAIRDEVCEININST 5200.14 of 9 March 1988) subject should go a long

way to improving the interactions of these four groups."

Also, concluded Witt, we must make sponsors more aware of our capabilities and our best scientists and engineers should be known to them on a first name basis. This Office can help publicize, but it can't make those personal visits which do the most communicating in our abilities and accomplishments."

Witt feels these goals are important not only to him but to the entire Center. He pointed out, "While Technology is the base of the future, it could also be the future of the base."

Psychologist to speak on families

By Mary Ann Brett

Dr. Matti Gershenfeld, nationally known Psychologist, will address NADC employees in the Center auditorium on Thursday, February 16th. At 11:00 a.m. she will speak on "Living with a Teenager: It isn't easy" and at noon, on "Building Family Strength."

Gershenfeld, author of eleven books in her field, was invited to NADC by the Center Career Readiness (CORE) group which has recently been expanded to include management, administrative and clerical series.

Gershenfeld received her Doctorate from Temple University and did post doctoral work at the University of Pennsylvania Medical School, in Psychiatry in the Division of Family Study. She is an Adjunct Professor at Temple U. and Graduate Faculty member at Pennsylvania State University - Ogotz.

Commander Salutes

Continued from page 6

Henry Lystad (Code 60): For outstanding support to Source Selection Evaluation Board as a member of the Long Range Air ASW Capability Aircraft Technical team.

Russell Rud (Code 50): For completion of the Sea Star Development Program Options Paper (DOP).

Micaela DiPasquo (Code 10): For outstanding support of the Naval Air Systems Command TACAMO E-6A Program.

Kenneth Petri (Code 50): For briefing members of the Swedish Defense Research Establishment.

Juliette Booz and Marshall Hynes (Code 60): For assisting the Naval Air Systems Command in evaluating the Long Range Air ASW Capable Aircraft competitive proposals.

Daniel Probert (Code 90): For superb support to the Alternate Site Study Committee for Underwater Explosion Testing.

John Johns (Code 60): For assistance to the Marine Corps in planning, organizing and implementing an ambitious tactical research project.

Joseph Zanine (Code 60): For assistance to the Naval Technical Intelligence Center on an engineering software package to assess propulsion system installation effects.

Kathleen Stempeck (Code 20): For initiative in suggesting the Federal Women's Program have the League of Women Voters register Center employees for the Presidential election.

Thomas Karr (Code 80): For significant contribution as a Procurement Management Review

team member at the Naval Training Systems Center in Orlando.

Carla Mackey (Code 30): For support to a Naval Postgraduate School student on his thesis, "Hypersonic Vehicles in the Outer Air Battle".

Dr. Gloria Chisum, LCDR Ron Smith, LT Rick Erickson, Phyllis Morway, Dr. James Sheehy (Code 60): For outstanding efforts in establishing the "Lasers in Military Operations: Technical Data Indoctrination Package" for the Naval Air Systems Command.

Michael Hess and Harvey Sokoloff (Code 50): For technical support in establishing the Non-Acquisition Program Definition Document for Surveillance Infrared Search and Track Advanced Technology Demonstration.

AW1 Kenneth Carrigan (Code 10): For dedication in supporting the Naval Air Technical Services Facility's automatic distribution of the P-3C Update III Channel Expansion Software Reference Manual and In-Flight Handbooks to the Fleet.

If the SOC fits

By Robert Janes

The penalties for violations of the Navy's Standards of Conduct (SOC) can be severe, as witness a recent decision by the U.S. Court of Appeals for the Federal Circuit. That decision affirmed the removal of a government employee from his job because of his acceptance of a gratuity from a defense contractor.

The employee involved, who served as a COTR on a Navy contract, accepted a \$200 gift from the company whose contract he was monitoring. The employee contended that he had solicited the money from another company, which he had not realized was associated with the contractor involved. He also maintained that he would not derive any personal benefit from the gift, which was intended to be used as a contribution to a little league baseball team.

The court was unpersuaded by these arguments and affirmed the Navy's firing of the man, finding that the employee's conduct had cast doubt on his ability to exercise impartial judgement in the performance of his duties. The court explained that "since the government has a compelling duty to avoid conflicts of interest and to maintain the integrity of the federal service", the removal was proper.

While this case involved a rather obvious impropriety, we should all bear in mind that the acceptance of any sort of gift or favor from a DoD contractor is a violation of the SOC, which can subject us to administrative (and, where warranted, even criminal) penalties.

Don't fret; give blood

Continued from page 5

Have you had:

- a blood or plasma transfusion in the past six months?
 - a tooth pulled or other dental surgery in the past three days?
 - rabies inoculations in the past year?
 - Hepatitis Immune Globulin serum in the past nine months?
 - a small pox vaccination or other major disease immunizations in the past two weeks?
 - German measles vaccination in the past two months?
 - Malaria or taken antimalarial drugs in the past three years?
 - surgery or a serious illness in the past six months?
 - a tattoo, ears pierced or acupuncture treatments in the past six months?
 - a recent unexplained weight loss of 10 pounds or more?
- Have you:
- been immunized to human cell/red blood cell antigens Rh factor?

- donated plasma in the past 48 hours?
 - been exposed to hepatitis in the past six months?
 - taken any habit-forming or hallucinogenic drug within the past 48 hours?
 - taken aspirin compounds within the past five days?
 - been institutionalized during the past six months?
- Do you have:
- a cold, flu, sore throat or any type of illness now?
 - skin infections? Frequent boils?
 - abnormal bleeding tendencies?
- Are you:
- under a doctor's care now?
 - pregnant or have been in the past six weeks?
 - in a high risk group for AIDS?

If you passed this medical evaluation, congratulations. You can now become one of the 12 million Americans who participate in the largest form of voluntarism.

Rate Information

Current rate information on U.S. Savings Bonds is available by calling the U.S. Savings Bonds Division toll-free line,

1-800-US BONDS.

Winter Fitness

Shopping malls can double as excellent winter exercise rinks for avid walkers. But be sure to wear comfortable shoes.

Technical Highlights

Continued from page 3

First NADC S-3B Software Released for TECHEVAL

The Fixed Wing Carrier-Based Program completed a test, analysis, fix and IV&V period for S-3B 4.2.1 software on-schedule and released this package to the Naval Air Test Center for TECHEVAL start. The B4.2.1 software is a merger of Tactical Mission Program (Lockheed product) and System Test Program (NADC product) and is the first Navy S-3B software with NADC as the system software support activity. This S-3B software provides increased operational capability in the areas of communications and acoustics and greatly increased program stability.

VP ASWOC FTAS Upgrade Completes OPEVAL

The Fast Time Analyzer System (FTAS) — VP version — completed OT-IID OPEVAL in the ASW Operational Center (ASWOC) at Brunswick, ME. The former OPEVAL report is due out in late February 1989. This follows successful development (DT-IID) testing in September 1988. The FTAS Upgrade expands Vernier capability, increases the number of available channels, improves display capability and provides better supportability (via commonality with CV-ASWM) and improved reliability (by use of MIL-STD components).

ERAPS

Acoustic tests of the ERAPS projector were conducted at the Center's Open Water Facility. These tests were conducted to compare the projector performance with the

specification and to validate measurements made by the contractor. Pressure tests of various ceramic hydrophone materials were also conducted to evaluate several candidates for the receiving array. Testing procedures were established for safety certification of the high power lithium battery design.

Airborne Low Frequency Sonar

Baseline performance testing of the third Airborne Low-Frequency Sonar (ALFS) advance development model (ADM) candidate produced by HUGHES and THOMSON-SINTRA was conducted at Lakes Castillon and Chaudanne in France. The ALFS is a dipping sonar scheduled as a pre-planned improvement to the SH-60F helicopter. Mechanical tests at Lake Catillon included: raise and lower speeds, auxiliary raise modes, bottom sensor actuation, automatic slowdown, emergency stop and array folding. The following sonar acoustic properties were exercised at Lake Chaudanne: source level, pulse shape, beampatterns, vertical rejection, stave sensitivity, transmitter endurance and underwater communications.

AEGIS NCTR Experiment

The destruction of a commercial airliner by a U.S. ship in July 1988 facilitated the Naval Sea Systems Command to establish a rapid response program to address the need for Non-Cooperative Target Recognition (NCTR) capability for the AEGIS class combatants. A national search took place to identify a technology and system capable of meeting the AEGIS NCTR requirements. The Advanced

Radar Target Identification System (ARTIS), developed by the NADC, was selected as the only viable candidate. In early December NADC engineers successfully completed phase 1 of the rapid response program, by demonstrating NCTR on the USS San Jacinto. Controlled test aircraft and

targets of opportunity were successfully identified non-cooperatively using radar signal modulation analysis for the first time on an AEGIS radar system. NADC will be responsible for the Phase 2 rapid procurement effort to provide NCTR on 10 AEGIS ships at an estimated \$35,000,000.



Mixed League Bowling News

By Tom Reiter

Our First Half ended on January 4th. The following leaders are to be congratulated:

FIRST HALF CHAMPIONS

A Division - Red Winos	B Division - Gutter Dusters
Tom Reiter (c)	Wes Gleason (c)
Ernie Wykes	Bill Flannery
Mike Dent	Aaron Davidson
Bob Andrews	Jack Kinsky
Miriam Lentz	Dom Zaccaria
Elaine Granieri	Bruce Vaughn
Claire Bayer	Mary Vaughn
	Pam Kinsky
	Kathi Call
	Chris Zaccaria

HIGH AVERAGE

Mike Dent	184
Linda Stickney	164

HIGH SERIES

Mike Dent	645
Linda Stickney	587

HIGH SERIES WITH HANDICAP

Dave Oliver	710
Linda Stickney	677

HIGH SINGLE

Mike Dent	247
Linda Stickney	226

HIGH SINGLE WITH HANDICAP

Jim Campana	283
Vicky Schwartz	266

HIGH AVERAGE

Wes Gleason	183
Denise Beck	152

HIGH SERIES

Wes Gleason	671
Mary Feely	559

HIGH SERIES WITH HANDICAP

Aaron Burstein	726
Mary Feely	709

HIGH SINGLE

Wes Gleason	262
Mary Vaughn	225

HIGH SINGLE WITH HANDICAP

Aaron Burstein	291
Mary Feely	266

— Contest —

Cash for Naval aviation photos

The Association of Naval Aviation and its magazine, *Wings of Gold*, in conjunction with *Naval Aviation News* magazine, is sponsoring an annual photo contest, beginning in January 1989. There will be six bimonthly winners and end-of-the-year first, second and third place winners. The contest is intended to capture on film the exciting world of Naval Aviation, its airplanes, ships and people in the Navy, Marine Corps and Coast Guard. Winners will be announced with their photos in *Naval Aviation News* and *Wings of Gold*. Everyone is eligible except the staffs of the Association of Naval Aviation and *Naval Aviation News*. The ONLY requirement is that the subject matter must pertain to Naval Aviation. Submissions can be in black and white, or color, slides or prints of any dimension. Cash awards consist of: bimonthly, \$100.00; annual: first place, \$500.00; second, \$350.00; third, \$250.00.

Deadlines for submissions for the bimonthly awards are set to coincide with publication dates of *Naval*

Aviation News and are the 1st of February, April, June, August, October and December. The deadline for the annual awards is December 1. Please be sure to include a complete name and address with each entry.

Bimonthly winners will be selected by the staffs of *Wings of Gold* and *Naval Aviation News*. All photos submitted throughout the contest period, whether or not they were bimonthly winners, will be considered for the annual awards by an expanded panel of judges which will include recognized out-of-house experts in the photography field. This will insure that EVERY ENTRY will get a fresh look. All submissions become the property of the Association of Naval Aviation. Mail properly released photographs to:

Association of Naval Aviation
Photo Contest
5205 Leesburg Pike, Suite 200
Falls Church, VA 22041

For additional information contact the Public Affairs Office, extension 3067.



NADC takes the trophy — The NADC football team took first place in the Naval Air Station Willow Grove's Intramural Football League. Standing with first place trophy is CAPT J.R. Shapard, Commanding Officer, NAS Willow Grove and some of NADC's football players: AW1 Richard Hooper, ATC Paul Butler and Command Master Chief Nelson Williams.