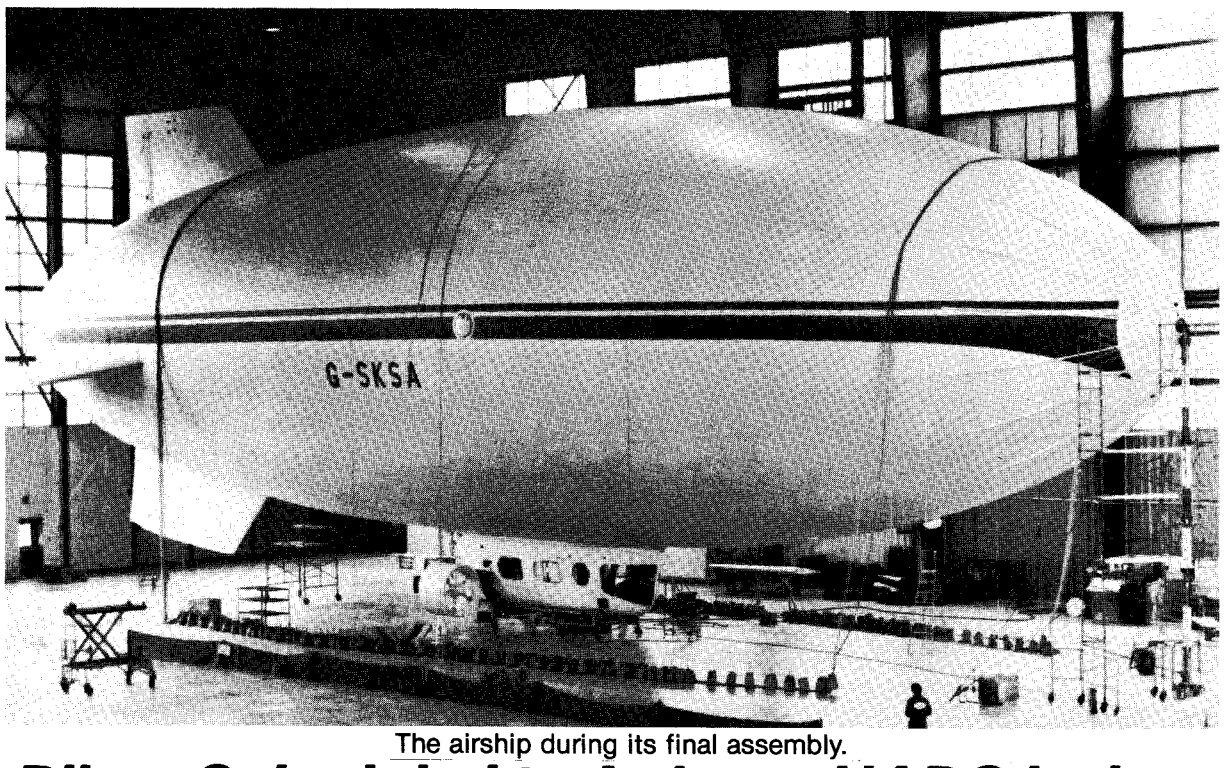
The Reflector

Volume 27, No. 5 | Naval Air Development Center, Warminster, PA | May, 1983



The airship during its final assembly.

Blimp Scheduled to Arrive at NADC in June

The first modern technology airship to fly in 23 years will be at the Naval Air Development Center in late June. The blimp built by Airship Industries Ltd., a British Company, is to be tested under contract by the US Navy. Interest in Lighter Than Air (LTA) technology has been renewed as a result of energy conservation. LTA craft offer lower energy consumption and significantly longer flight time than conventional aircraft.

Both the US Navy and Coast Guard are interested in airships for maritime patrol, search and rescue and geo-survey applications. The vehicle that will be tested, called the Skyship 500, is 164 feet long, 65.5 feet high, and is powered by two Porsche engines that move it along at about 64 knots. After demonstration flights at NADC, the Skyship 500 will fly to the Naval Air Test Center at Patuxent River, Maryland for further evaluation by the Navy, and then to Elizabeth City, North Carolina for exercises with the Coast Guard.

Boxing Bouts Set to Benefit Navy Relief

Professional boxing is coming to NADC. For the benefit of Navy Relief and Centennial Charity, seven bouts with a light heavyweight feature event will be held in hangar bay 1 building 4 on 10 June at 8:00.

The main event will feature a grudge match between Richie "The Bandit" Bennett of Darby, PA and Larry Davis of Elizabeth, NJ. This ten round bout is a return match between the two fighters. Bennett, 25-6-2, 18 KO's, will seek revenge against Davis, 8-4, 3 KO's after suffering a first round knockout in their last bout at the Claridge Hotel and Casino on 9 May.

This event will be the primary fund raiser for Navy Relief this year. Arrangements for the event are being made by an Atlantic City fight promotion firm, Joe Hand Promotions, who have made provisions to bring up from Atlantic City an excellent professional fight card along with a Casino announcer, professional ring and ring girls. Everything about this fight will be casino caliber, except the prices.

During that evening the drawing for the Navy Relief Raffle Grand Prize, a 1983 Chevette, will take place.

It promises to be an exciting night so get your tickets early. They are available from the Public Affairs Office at $12 each. Call X3067 for further details.

Center Announces Winner of Sailor of the Year Award

By Carolyn Riemer

AME2 John Harris has been named the Center's Sailor of the Year for 1982 for his work as a member of the Aviators Life Support Branch (8213).

In addition, the winner of the Sailor of the First Quarter for 1983 has also been announced. HM2 Jose Marrero, of the Aircraft and Crew Systems Technology Directorate, won this award for work as project coordinator for some of the Center's aviation bio-medical research programs.

The winners of the Sailor of the Year and Sailor of the Quarter awards are chosen by the Center's Chief Petty Officers from nominations submitted by the various division chiefs. The award requirements are set by NAVMAT, according to AFCM Boyd Stodolski, chairman of the Chief Petty Officers Association on Center.

The choice of Harris for the Sailor of the Year award was for his "pride, professionalism of work, adaptability and leadership among his peers," Stodolski said.

Harris, who is responsible for helping to maintain the survival and air conditioning equipment in NADC aircraft, was also commended in a letter from Center Commander CAPT James B. Anderson.

"Demonstrating superior technical competence, leadership and personal initiative, you exemplify the pride and professionalism of today's Navy," the letter stated. "You have proven to be a conscientious and dedicated individual, and a leader by example."

On winning the award, Harris said he was both surprised and glad about his selection.

Besides the selection of Harris, the Center's Chief Petty Officers also chose Marrero as the Sailor of the Quarter for the first three months of 1983.

Marrero is responsible for the scheduling for many of the aviation bio-medical research programs, a job that includes scheduling times program subjects are to participate in a project. It also includes tasks such as taking a subject's vital signs and insuring the subjects are dressed in proper gear.

Marrero was selected for the award because of his "outstanding professional performance and contributions" to ACSTD, according to the letter of commendation sent by Capt. Anderson.

"Your expertise, resourcefulness and devotion to duty have greatly contributed to many of the current aviation bio-medical research programs being conducted at the Center," the letter stated. ". . . you maintained the required flexibility and composure to ensure efficient use of time and personnel in extremely variable situations."

Marrero, too, said he was surprised and pleased about winning the award.

Just a reminder, NADC Family Day will be held 8 July. Bring in the family and show them where you work. The Center will be open to the families of employees and contractors with badges that require no escort from 1300 until 1600 that day.

Center Honors Five Employees for their Achievements

People are what NADC is all about and each year the best are honored with awards for outstanding contributions to their projects, leadership in scientific and engineering and support to the Center. This year five people were singled out for their performance.

LCDR David N. Seckinger and Franz Bohn shared the Project Leadership Award for their contributions to the P-3C UPDATE III Project. They both directed the design, development, integration and testing of both avionics and software for the next production P-3C system.

Maureen T. Marron received the Support Achievement Award for her work in developing NADC's Employee Assistance Program. She arranged for an outside agency to provide counseling/professional assistance to all Center employees. In addition, Marron contributed to the establishment and administration of realistic and objective performance assessment procedures.

For his research in the area of laser beam spreading, Dr. Lloyd C. Bobb was honored with the Scientific Achievement Award. Bobb's work has been recognized by the University of Pennsylvania, Princeton University, Massachusetts Institute of Technology and Johns Hopkins University.

Donato M. Russo received the Engineering Achievement Award for his contributions to acoustic signal processing. His work has resulted in the Advanced Signal Processor, AN/UYS-1, which will be installed in over 500 aircraft, ships and submarines.

Lou Daouphars was honored by the Navy for his 28 years of technical and professional competence. For his achievements the Navy Superior Civilian Service Award was given to him by CNM Admiral Williams.

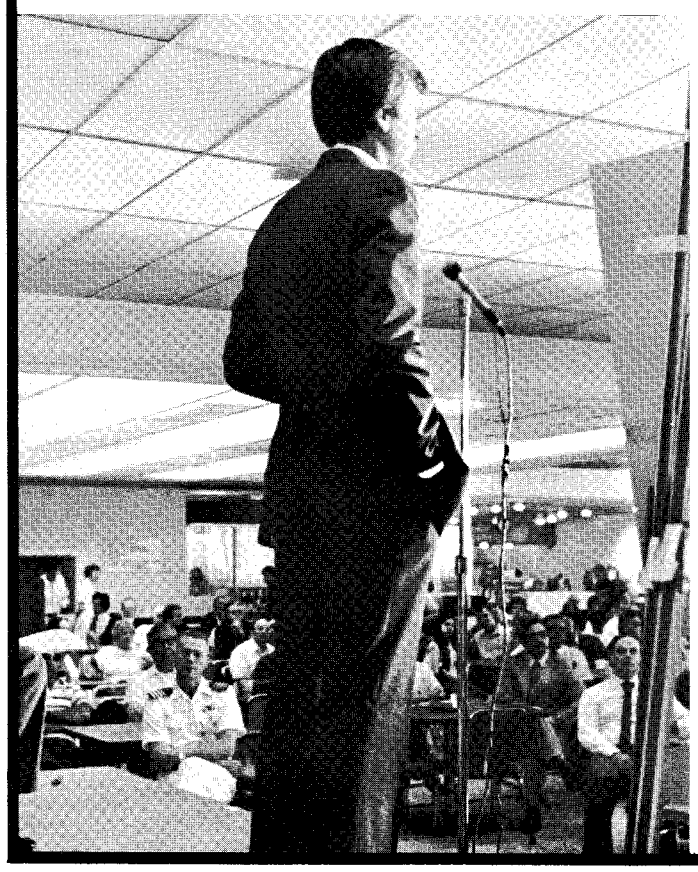
Director of Navy Laboratories Visits NADC

The Director of Navy Laboratories, Robert Hillyer, visited the Center recently for the purpose of briefing NADC's management on the progress of the DNL goals for Navy labs. In the year that Hillyer has been DNL he stated that "progress has been made in several areas."

On increasing the technology base, new ceilings have been set. NADC, for example, was allocated over 200 positions. In addition, Hillyer said that 21 new high grade positions were given to NADC as a result of justifications prepared by Center Management. Another one of Hillyer's goals is to assure that the eight Navy research and development centers maximize the use of their resources. To that end, agreements between the laboratories to clarify mission parameters have been finalized.

Hillyer fielded questions from division and branch heads. He was asked about what can be done to speed up the procurement process and a suggestion from the group involving the setting of procurement milestones interested Hillyer and he said he would take it back to Washington for review. He was questioned about how government managers are supposed to attract new hires in the current environment. Hillyer said that he views scientist and engineer salaries as fairly competitive when benefits such as educational opportunities and project responsibility are included. He added that the government must become more aggressive in recruiting young people.

Director of Navy Laboratories, Robert Hillyer addresses Center project managers and division heads.



Top: The Center was recently presented with a certificate by principal Kenneth Kastle of William Tennent High School for the Center's Stay-in-School program. Under this program, students are allowed to work 20 hours a week while enrolled in school and are allowed to work full-time during vacation periods. Currently 13 students are participating in the Stay-in-School Program. Eleven of the students attend Tennent. Two other students attend Bucks County Community College, and are also graduates of Tennent. Pictured (l to r): Thomas Brennan, Associate Technical Director; Gil Ridley, Deputy EEO Officer; Ron Young, Director of CPD; Marlene Grubb of Civilian Personnel; John Baginski, Cooperative Education Office of Tennent; Captain James Anderson, Center Commander; and Kenneth Kastle, principal of Tennent.

Left: Eighth District Congressman Peter Kostmayer talked to center employees about changes in the civil service system this month.

Parking One

To the Editor:

I am writing in response to your editorial on parking in the April *Reflector*. You have apparently not thought this through. You speak of the now "equitable situation" due to regulation and enforcement. Oh. . . Contraire! Pierre! Restricting contractors to parking in the back lot is blatant institutional discrimination! What's next, relegating contractors to the back of the cafeteria? Separate lavatories? Wouldn't these be bigger and better "victories?" The NADC administration officially promotes the theme of a harmonious "One Big Team" effort. Military, civilian and contractor, all pulling together for the common good. The whole situation brings to mind the anecdote about the drill sergeant lecturing to his troops. "We are all Marines. No black Marines. No white Marines. All of us are green Marines. Now let's fallout. You light green Marines proceed to the chow hall while you dark green Marines dig the latrine."

There are places here at NADC where contractors are not welcome or allowed even on government business, i.e., special programs, shop stores, purchasing. This year's Family Day poster invites military and civilian in 40 point type while a misleading "also permanent contractors" is there in 28 point.

If you are inviting people on board to work with you, equitable treatment would be expected, not turning us into adversaries to do battle with. The situation created by the base administration is bad enough without your editorial which was in rather bad taste.

Not Yet Vanquished
Stephen Grant Shipley

Parking Two

We now have the editor of the *Reflector* (NADC, Warminster, Pa. monthly newsletter) calling the new NADC parking regulation a "small victory" for Federal Employees. This is irresponsible journalism. This regulation requires that contractor personnel, working full-time at NADC, park in Parking Lot #2 which is about an 8 minute walk from their work stations.

Another "small victory" may be that contractors are not allowed in certain offices even though their job requires that they interface with that office. Those office personnel (Federal Employees) state that they are not allowed to talk to contractors (these cases may be isolated).

I guess that these examples are "small victories" to Federal Employees who state that with all the benefits they are losing this is some tangible gain. The victim of the gain is the contracting sector. A group with no representation at any personnel policy meetings and with no avenue of redress. The victory is over the defenseless.

Why do we have contractors? In 1979 the Office of Management and Budget (OMB) issued a circular (A-76), which states in part, "In a democratic free enterprise system, the Government should not compete with its citizens." This means that if the civilian sector can do the job as well and cheaper they will get the job. Along with this circular a study was conducted regarding relative cost to do a specific task. The cost from least to most expensive was contractor, military, Federal Employees. Why? The military and Federal Employees have benefits that are costed (prorated basis) for each job. These costs include medical benefits, overhead (facilities) and retirement. These costs are added to wages and material to estimate the cost of a job. This can, in many cases, make the government cost much higher than contractor cost.

Additionally, a part of the platform that the last two presidents ran on included a resolution to reduce the size of government. This issue helped to elect both of these presidents. They followed through on their promise—Federal Employee positions were reduced. However, this is a huge government with an enormous amount of work to perform. Contractors were hired to do some of these jobs. Sure, we have cut down on government size, but just as many people are working in jobs to support the government. They are not paid directly by the Federal Government. This approach may be fiscally sound; the jury is still out on that.

The entire point is, that contractors exist because the government says they will. Government agencies have the responsibility to employ contractors if they can perform the same task cheaper. Now a particular agency, NADC, will take it upon itself to gain "small victories" at the contractors' expense. An 8 minute walk to work is 16 minutes out of a 30 minute lunch.

Covert institutional discrimination is as much against the law as overt segregation. There are better ways to gain "small victories" than to make a particular segment of your work force pay for victories with losses.

Respectfully,
Barry Sanders

Parking Three

To the Editor:

I was somewhat surprised at your obvious lack of control over the recent April 1983 issue of the *Reflector*. May I remind you that, as editor, you are directly responsible for the contents of any unsigned editorials that appear in print under your supervision. I am referring, of course, to the Parking Praise article complete with its claims of "victory" and "equity."

As stated in its preamble, the *Reflector* is published with appropriated funds to promote the "morale and general welfare of all concerned." Well, I am concerned and my morale is not promoted in the least.

This article should have mentioned the total waste of time and therefore government tax dollars that is incurred daily as hundreds of contractor personnel are forced to park in blatantly remote locations for the mere convenience of the purported "victors."

I must ask you, who has declared a war? Is it a victory when a "Center Employee" may now get a prime parking space regardless of the time of arrival at work, even at the direct inconvenience to his fellow workers? During my past years as a user of the parking areas in question I never once had ANY difficulty finding a parking place in the first three rows when arriving before 7:30 AM. I would imagine that the current quest for "victories" would be better served by initiation of a better sense of teamwork and esprit-de-corps among all factions of the Center.

Robert P. McCaskey

Smoking

To the Editor:

Your reply to the letter in the last *Reflector* with regard to smoking read like a NAVAIRDEVCEN instruction and gave me the impression that I was reading a lot of words that completely bistepped any solution to the problem outlined by the writer and shared by a very large majority of people who work here at NAVAIRDEVCEN.

We need no balance between smokers and non-smokers because it's been proven that cigarette smoking causes cancer.

I sit in conferences with managers who light up even when there are signs posted and no one will say anything because of their positions. Supervisors don't want to, and shouldn't have to, be put in a position to take any one part on an issue such as health. If you sit in a doctor's office, there are always "no smoking" signs because they know it's important.

This Center should revise the instructions regarding smoking or perhaps have areas set aside for smoking if they want to, but individuals should not have to express their objections to a subject that is just as detrimental to the health of the work force of the Center as the recent issue of the potential hazard of contamination of water in the Warminster area.

The rights of a few at NAVAIRDEVCEN are being defended at the expense of many.

Sincerely,
Concerned Non-Smoker
Name withheld by request

Energy Tip

To the Editor:

Please consider recommending the following energy saving tips which appear to have been (and continue to be) overlooked:

1. close doors—especially doors that lead to the outside.
2. close both sets of double doors.

Thank you very much.

Sincerely,
Frank A. Corredine
Code 4032

As is common newspaper practice, editorials are written by the editor or the editorial staff. Since the *Reflector* has no editorial staff, the editor writes the editorials.

A meeting held with contract employees and CAPT James Anderson resulted in several suggestions to improve the parking problem. Some of those suggestions are now being implemented.

The Reflector

Naval Air Development Center

The *REFLECTOR* is published monthly by the Public Affairs Office to inform Center personnel about topics of interest, and to promote the morale and general welfare of all concerned.

Views and opinions expressed in this publication are not necessarily those of the Department of Defense.

It is printed commercially with appropriated funds in accordance with the provision of NAVPUBINST 5600.42 August 1979.

The *REFLECTOR* is a subscriber to the American Forces Press Services.

All correspondence should be addressed to Editor, Reflector, Code 091, Naval Air Development Center, Warminster, PA 18974 (441-2980).

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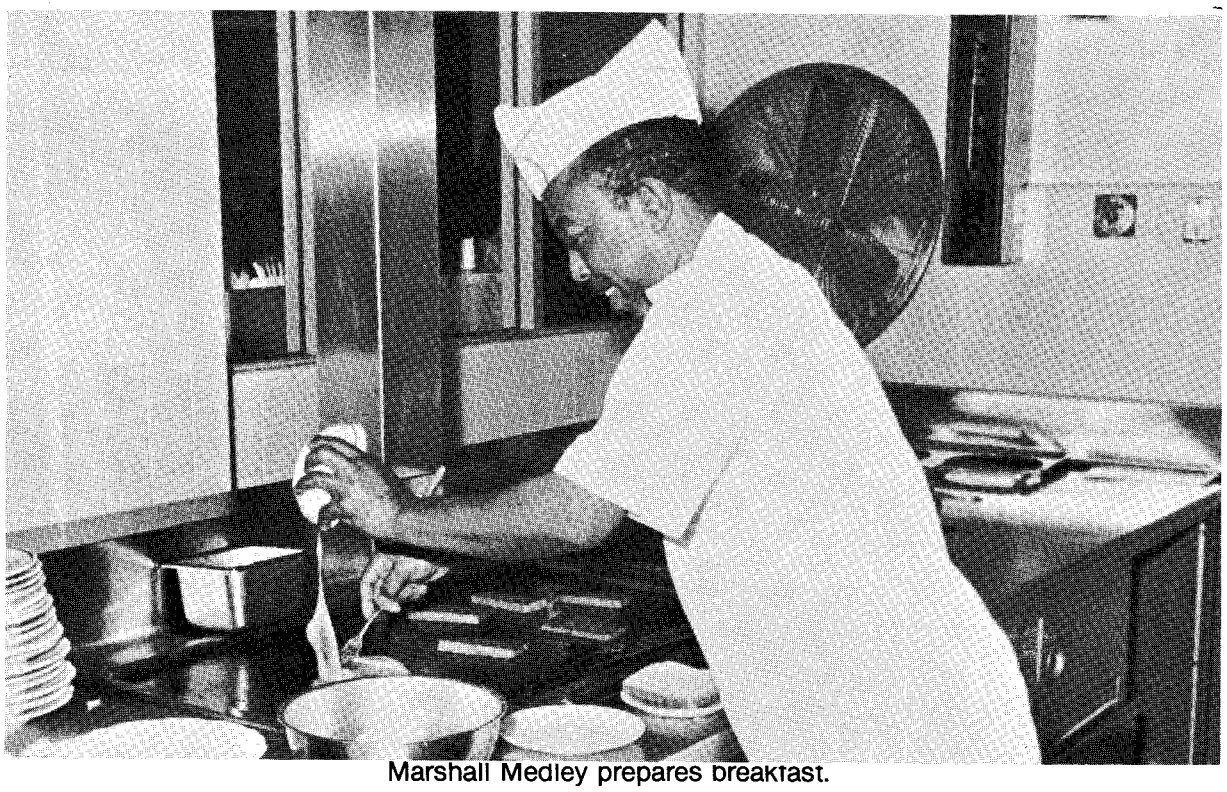


Marshall Medley prepares breakfast.

NADC Employees Served Breakfast With a Smile

By Jeannie Beans

After a long drive through morning traffic, you arrive at work, stumble sleepy and bleary-eyed into the cafeteria for something to get your day started. Not only do you get a nice fresh breakfast made quickly to order but you receive one of the warmest, cheeriest greetings you could hope to get before 8:30 a.m.

Recently, Marshall Medley was commended by the Food Services Board for his courteous service and pleasant personality. Many NADC employees have been so impressed by Medley that they felt compelled to let someone know.

The Public Affairs Staff visited Medley one morning to catch him in action. No matter how despondent one might be when entering the cafeteria, you cannot help having your spirits lifted with his greeting. Medley commented, "I have to treat the people of NADC right; I have to keep them happy."

Medley has been here for a year. Prior to working at NADC he was an Assistant Manager at Amstar Sugar Plant in Philadelphia. When we asked Bob Greene, the cafeteria manager, how he felt about Medley's letter of appreciation, he said, "Marshall is a very meaningful and assertive person. He is well liked, well mannered and Macke is pleased to have him as an employee. All the employees of the cafeteria wish Marshall congratulations!"

Medley feels obligated to bring the people down to the cafeteria with his manner so he can get them interested in giving their bodies some nourishment in the morning. He describes this as being "energy-wise."

NADC is lucky to have Medley working in the cafeteria. In today's world of shortfalls, shortcuts and good things short-lived, Medley's smile and friendly greeting go a long way.

John Marquez (seated on left) and Joe Marone (right) sign up for their 10 June bout to be fought at NADC. Looking on (l to r) are: Trainer Nick Scilovati; Steve Collins, Marone's manager; promoter Joe Hand; Warminster District Justice James Kelly; and Captain James Anderson, Center Commander.

Digital Display Technology Undergoing Modification

The NADC developed carrier based anti-submarine warfare module (CV-ASWM) is currently undergoing a modification to its display equipment. Tony D'Addezio, SCD, said the modification is a result of a two year effort to incorporate digital display technology in the CV-ASWM.

The new display system is an outgrowth of the "Q-21" family of displays. Designated AN UYQ-21, the system has color graphics, and the capacity to process 17,500 alphanumeric characters, 10,000 vectors, 500 conics (circles or ellipses) and 5,000 symbols per second.

D'Addezio explained that the system, built by Hughes, uses raster technology. Raster technology is the same type of system our home televisions use to display pictures. Images are formed by a series of dots on a horizontal line. This type of system gives the display all of its increased capabilities mentioned earlier. The system being used now on the Q-21 uses stroker technology which has limited graphics.

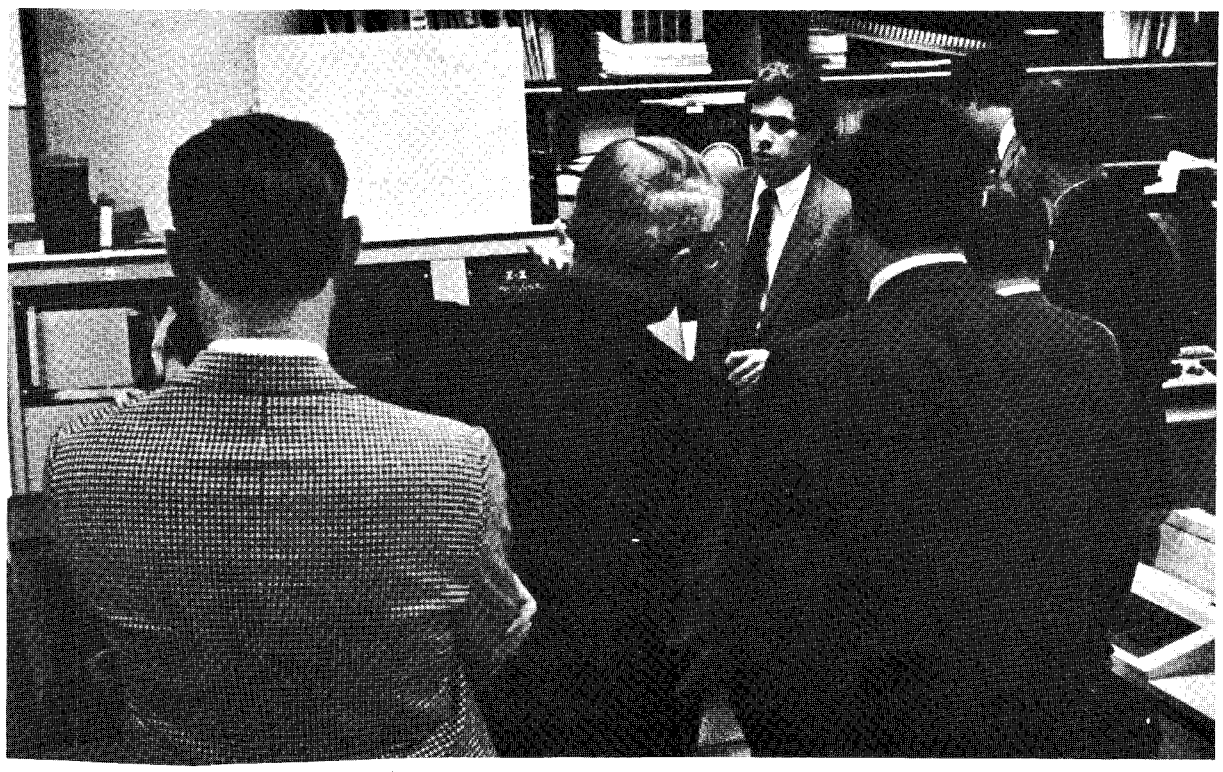
Delivery of the new display system is scheduled for January of 1985. It will be installed in NADC's CV-ASWM where software can be tested. Later CV-71 USS Roosevelt will be the first carrier to receive the display system. All other CV-ASWM's will be retrofitted with the system.

Computer Networking

Computerized Communication System to Interconnect Various Labs on Center

"The idea is to form a distributed network by interconnecting a number of diverse laboratories," explained John McFadden, SD. What he's talking about is a newly inaugurated computerized communications system. That system will give the Center the ability to build new concepts in aircraft systems using the many assets that already exist here. To get a picture of how the system works, you can imagine it as a set of building blocks. Each block is a different laboratory, for example the Basic Lab, CREST and Central Computer Center. For the blocks to be put together you need mortar. In this case the mortar is called a Network Adaptor Device (NAD). The NAD is like a minicomputer and it is designed to handle the flow of information between the separate laboratories. It acts as a translator, a memory storage device, a data routing system and an error checker. All the communications are currently handled over coaxial cable at a transmission speed of 50 mega bits per second; that's 50 million pieces of information per second.

The real advantage to the system is that new systems can be developed without procuring new hardware. Future plans call for the dynamic flight simulator and other technology labs to be tied in as the need arises.



John McFadden discusses the computerized communications system that will interconnect the various laboratories on Center with the Center Management Group.

Commander Salutes

Larry Buchsbaum and William A. Stranges, both of SD, for their presentation "The Selection of Microcomputers in Weapon Systems Cost Analysis" designated as the best presentation in the C-2 working group at the 50th Military Operations Research Society (MORS) symposium recently completed at the US Naval Academy.

Paul B. Aller, SD, Joyce Moore, Richard A. James and LCDR Charles L. Butler, all of DCP, for their support to NAVAIR by participating in a Program Management Assistance Group to study the avionics testing, installation and verification efforts at IBM.

Blaine Price, Comptroller, Thomas Willey, PAR, and Robert F. Swierczynski, ACSTD, all for their work on NADC's Corporate Plan.

Edward C. Beach, Edward H. Beals, Frank A. Corredine, Mary K. Daly, Vincent A. DeCristofaro, Steve J. Dunham, Steve P. Fleischut, Anthony Geneva, David J. Hancharik, John T. Handal, also John R. Kauker, Stephen Kochanski, Timothy J. Kowalczyk, Jules Kriegsman, Martin E. Leblang, Anthony Marino, Sidney A. Mittman, Frederick M. Pappalardi, Arthur P. Stevens, all for their work during sea trials on the USNS H. H. Hess (T-AGS-38).

Daniel Probert, PAR, for his assistance to the NAVAIR Sonobouy Logistics Working Group.

Jerold M. Magill, SD, for his presentation to NAVAIR titled "Anti-Air Warfare in Fleet Air Defense".

LT Alfred A. Manzi for his validation of S-3 FI 4.0.3 software for the Naval Weapons Evaluation Facility.

A01 Albert A. Castro, for his past performance as Ordnance Branch Supervisor and Loading Crew Chief of Patrol Squadron NINETEEN's Ordnance Shop.

Corvettes lined up at the Cavalcade of Corvettes, which was held 30 April and 1 May to benefit Navy Relief.

Cavalcade of Corvettes Held at NADC

Two warm sunny days brought thousands of car buffs to NADC for the Cavalcade of Corvettes. This was the second year that over 200 cars were on display for fans to drool over. Part of the admission price goes to Navy Relief. Last year over three thousand dollars was raised.

Corvette lovers from all over the East competed for trophies in stock, semi-custom and full-custom classes. Vendors were there to supply the real devotee with every nut, bolt, spring and clamp for their cars.

Special thanks go to the Aircraft Department, Public Works and Security for making the event possible.

Super Safety Skewers the Menacing Baron von Hazard One More Time

By Mike Masington

Baron Tod von Hazard, machiavellian master of menace, kicker of small dogs and children, and general all around, utility creep, was riding in his sleek, black (air-polluting) limousine, when he spotted Laslo Lumphcrantz preparing to build a wooden lawn shed in his back yard. Recognizing a golden opportunity when he saw one, von Hazard quickly donned one of his devious disguises and emerged as a "helpful" passerby. The unsuspecting Laslo gratefully accepted the offer of aid, and the pernicious peer was positively palpitating as he pondered all the potential pandemonium he planned to perform.

The nefarious nobleman began by showing Laslo the wrong way to lift a stack of 2 x 4's. This particular method was designed to inflict the maximum amount of pain and strain on the individual, and had been banned by the Geneva Convention. As the now herniated homeowner was attempting to straighten up, the Baron convinced him to change from his steel-toed work shoes into a more "comfortable" pair of sneakers. When the deludable Lumphcrantz went inside to change, the Baron used the time well to scatter scrap lumber, tools, and other tripping hazards around the work area. When Laslo returned, the Baron helped him lift six sheets of ½ inch plywood and ensured that he walk backwards as they carried the load across the yard. As planned, the bungling builder fell over a waiting sawhorse and had three inches of wood forcefully inserted into his mouth as he fell. Then the Baron, in a pure stroke of evil genius coupled with dazzling digital dexterity, dropped his end of the load allowing it to fall on Laslo's unprotected toes. As an added touch he then yelled, "Look out!"

After the screaming had stopped, von Hazard got Lumphcrantz to his battered feet, and helped him count his few remaining teeth. The next task involved cutting the plywood with a circular saw, and Laslo, understandably shaken by the preceding events, looked around for his safety goggles. "What," mocked the vicious von Hazard, "You're not at work now. Nobody wears safety equipment at home, it's just not needed."

It was then that a voice from behind them said, "Well Baron, up to your old tricks again, I see."

"Super Safety," gasped the heartsick von Hazard. "What are you doing here?"

"Just keeping tabs on you, old friend," replied the popular proponent of personal protecion. Turning his attention to the luckless Lumphcrantz, the hooded hazard hater said,

"Laslo, you've got to realize that safe work practices apply every bit as much at home as they do on the job. For example, never lift more than you can safely handle. When you lift, do so with your back straight and your knees bent. This puts the weight on the legs and helps prevent back injuries. Also, using personal protective gear such as steel-toed shoes and safety glasses for home projects is just good common sense. Over 62,000 people a year could avoid home incurred eye or foot injuries just by wearing proper safety equipment. Finally, just as on the job, your work area at home should be kept neat and orderly. Tools, equipment, etc., should be put where they won't become slip or trip hazards."

The look of sudden awareness on Lumphcrantz's face told the Baron he'd been foiled again. "Well Safety," sneered the still haughty von Hazard, as he leaned against one of the supports of the partially completed shed, "You may have won this round, but you haven't heard the last of me." Unfortunately for the Baron, Laslo's carpentry was as bad as his safety habits, and as he rested against the 2 x 4, it gave way, causing the entire structure to collapse on the hapless von Hazard.

As they surveyed the wreckage Laslo said sheepishly, "I guess I didn't build it very well."

"Nonsense," said the scion of safety, "Mr. Goodwrench couldn't have done a better job."

• •

"But Mr. Goodwrench is an auto mechanic," retorted the puzzled Lumphcrantz. "I know," replied Super, "I know."

The 'Voice' Records Narration for NADC

John Facenda recently recorded the voice over for the Center's new Command Presentation, which will premiere Family Day.

New Library Book Titles

Following is a partial list of books recently added to the Technical Information Branch. Visit or call your library at x2541 to inquire about these books.

• • •

MANAGERIAL SKILLS

The Art and Science of Negotiation
H. Raiffa BF637.N4R34 1982

Engineering Management
D. I. Cleland TA190.C58

In Search of Excellence: Lessons from America's Best-Run Companies
T. J. Peters HD70.U5P424 1982

Logistics Engineering and Management
B. S. Blanchard TA168.B57 1981

Managing Incompetence
W. P. Anthony HD58.9.A55

Models for Management: The Structure of Competence
HF5549.M62 1980

The One Minute Manager
K. H. Blanchard HD31.B527 1982

Winning by Negotiation
T. A. Warschaw BF637.N4W37

OFFICE AUTOMATION

Office Automation: A Survey of Tools and Techniques
D. Barcomb HF5548.2.B332

Office Automation, The Productivity Challenge
D. N. Chorafas HF5548.115.C46

Tutorial Office Automation Systems
HF5547.5.T87

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