The Reflector

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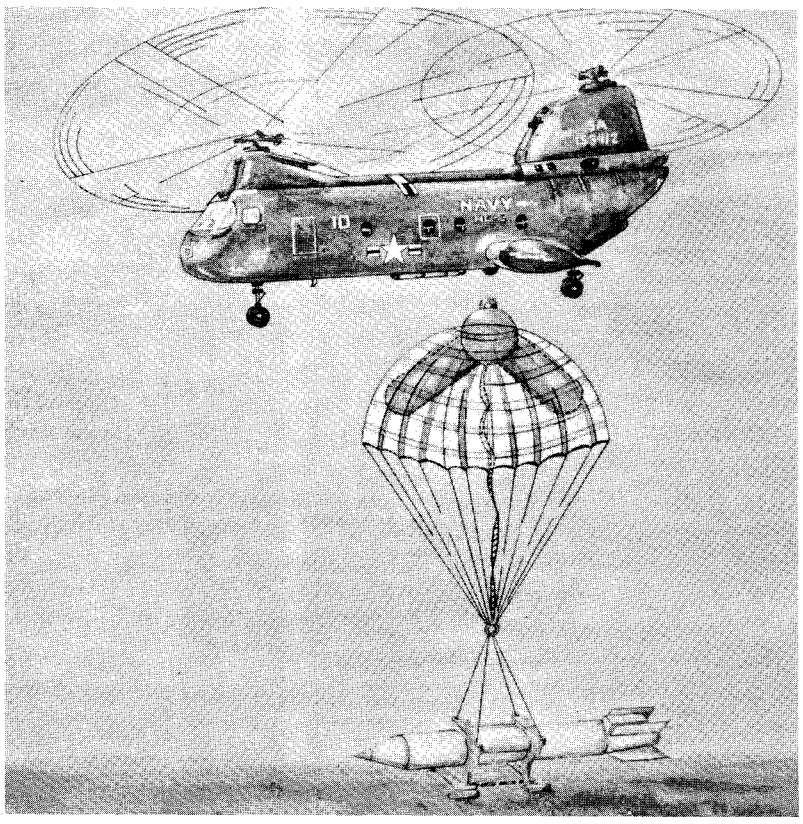

A drawing of the VERTREP system

VERTREP RAFT Testing Successfully Completed

NADC has successfully completed testing of a recovery system for high value cargo that may be jettisoned during transfer over the open seas, according to project engineer Michael Burch of the Aero Mechanical Branch (6013).

Called the Vertical Replenishment Retardation and Automatic Flotation (VERTREP RAFT) system, it is designed to limit damage to and aid in the recovery of high value cargo that may be lost during vertical replenishment.

Testing of the system was conducted last month with the assistance of the Pacific Missile Test Center in Point Mugu, California. Dummy cargo loads were dropped from a CH-46 helicopter, with the system working as it should, Burch said. Prior to this testing, static testing had been conducted at the Naval Air Engineering Center at Lakehurst and at the National Aeronautical and Space Administration center at Langley, Virginia.

With the successful completion of the flight testing, the project moves from the feasibility phase to the developmental phase. The next step is engineering a final system and putting it into the fleet.

Currently, the fleet has no provisions to limit damage or to provide for rapid recovery of externally carried cargo that is intentionally or inadvertently jettisoned during transport over the ocean.

This system is designed so that upon release, the VERTREP RAFT detaches from the helicopter and inflates within a

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White Replaces Williams as CNM

ADM Steven A. White succeeded ADM John G. Williams, Jr., as Chief of Naval Material on August 1.

White becomes the seventh Chief of Naval Material. As Chief of Naval Material, White will direct the world-wide activities of the Naval Material Command, an organization with some 200 installations and more than 220,000 military and civilian workers.

White was Commander Submarine Force, U.S. Atlantic Fleet, his sixth sea command, from 1980 until his selection for promotion and for his present assignment. His other assignments as a flag officer were as Commander Submarine Group TWO at New London, Connecticut; as Deputy Chief of Naval Material (Operations and Logistics); and as Assistant Deputy Chief of Naval Operations (Submarine Warfare). He was born in Los Angeles, California, on September 18, 1928.

After attending Occidental College from 1946-48, White transferred to the University of Southern California under the Naval ROTC program. There he received his bachelor's degree in Political Science, his master's in International Law and attended the USC School of Law. Commissioned in 1952, he served in the cruiser USS MANCHESTER before entering the submarine service in 1954.

He served two years as Engineer Officer of USS TANG and subsequently reported to USS NAUTILUS after completing Nuclear Power Training. He served in this ship during its 1957 Arctic explorations and in 1958 when NAUTILUS became the first ship ever to reach the North Pole.

In September 1960, White reported as Engineer Officer to the commissioning crew of USS ETHAN ALLEN, and served as its Executive Officer during six patrols. He was on board when ETHAN ALLEN conducted the only fully operational test ever made of a submarine launched strategic missile with warhead in 1962.

After duty as Force Nuclear Training Officer for the Atlantic Fleet Submarine Force, he commanded USS PARGO from 1966-69. PARGO received the Meritorious Unit Citation and the Navy Unit Commendation under his command.

From August 1969 to October 1970, Admiral White commanded Submarine Division One Hundred Two, and from February to May 1970 was additionally Commander Submarine Division One Hundred One. Following service as Assistant for Training and Personnel Matters in the Office of the Manager, Naval Reactors, Atomic Energy Commission, he commanded Submarine Squadron Sixteen in Rota, Spain, from June 1972 to July 1974. He was chosen for rear admiral during this assignment.

White replaces Williams, who served in the destroyer USS DUNCAN before completing Submarine School in 1949. For the four years following, Williams served in the submarines USS POMODON and USS CHIVO.

He was also first Assistant Deputy Chief of Naval Operations for Submarine Warfare; then Director, General Planning and Programming Division; and Director, Department of the Navy Program Information Center.

Promoted to Vice Admiral in January 1980, he became Deputy and Chief of Staff to the

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Security

Guarding NADC's Integrity

"We are all our brother's keepers." The quote is an old one but in this instance is from Robert Fisher, head of NADC's Security Division. Fisher referred to the quote as a way of describing an employee's responsibility toward physical and informational security. People at the Center should always be on the lookout for security violations, Fisher said. It's not only the job of the Security Division to see that badges are worn and government property is used properly and safeguarded. "It is everybody's responsibility," Fisher added.

The Security Division is charged with protecting the physical plant from the perimeter fence line to the locks on safes. To accomplish this job, there are 44 contract guards, 22 civil service guards plus supervisors. These people control access to the Center through the issuing of vehicle passes, control and distribution of keys, the issuing of badges and the control of government property leaving the Center. Other facets of physical security include the closed circuit television monitoring system and the various alarm systems that protect special areas.

The Command Investigator is charged with investigations of missing, lost or stolen material and equipment, vandalism and misconduct. These investigations involve incidents occur-

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Stampfl, Director of 20, Retires This Month

By Carolyn Riemer

Dr. Rudolf A. Stampfl, director of the Systems Directorate since 1979, is retiring from NADC this month after 10 years of service at the Center.

This senior executive service position will be announced competitively and will be advertised federal service-wide, Technical Director Robert Buffum said. The position should be filled permanently by November. It has not yet been determined who will fill the position in the interim, however.

In addition to serving as head of the Systems Directorate for four years, Stampfl also served as director of the Communication Navigation Technology Directorate for two years and as director of the Aero Electronics Technology Department for four years.

When a senior executive, such as Stampfl, retires, the impact is one that is felt by the entire Center, Buffum said.

Stampfl has been a strong supporter of the Center and its programs, Buffum said, and through his position as a nationally recognized member and elected officer of the Institute of Electrical and Electronic Engineers (IEEE), he has brought considerable outside recognition to the Center.

There were numerous project accomplishments during the time Stampfl headed the Systems Directorate. These accomplishments include: completion of the P-3C Update III technical evaluation, completion of an anti-submarine warfare master plan, a design for a reconnaissance version of the F/A-18 was performed and ac-

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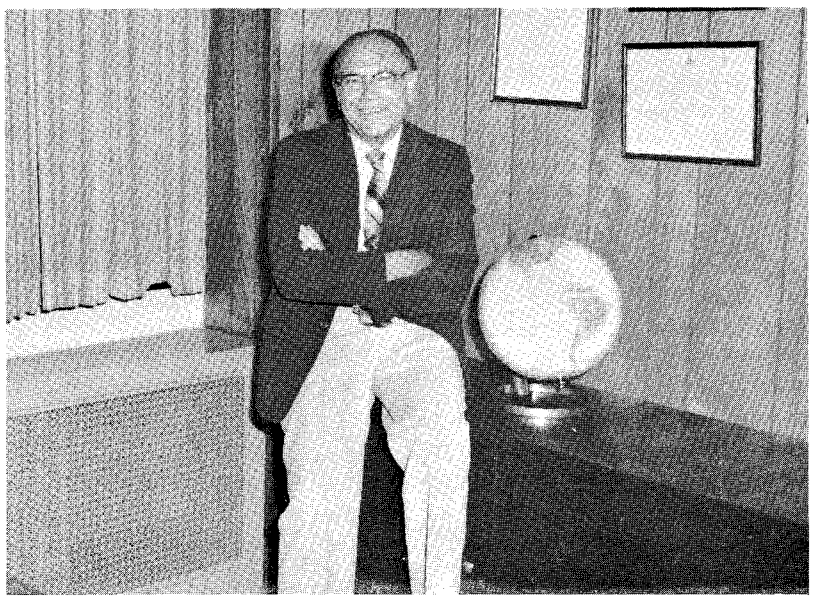


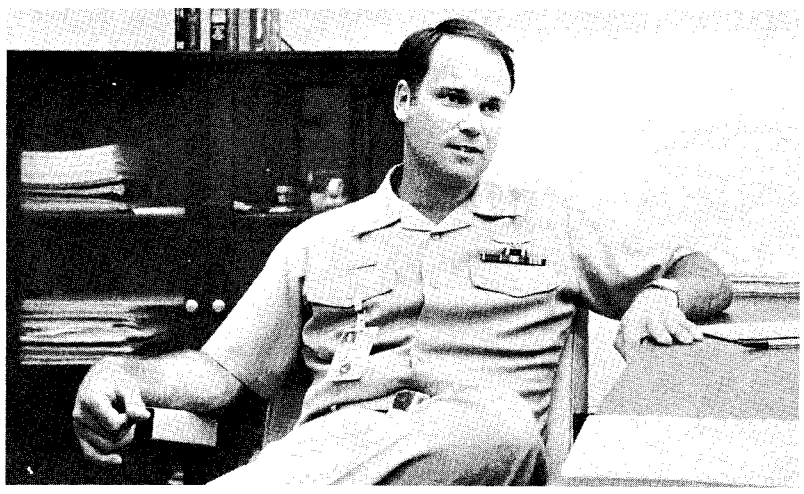
Dr. Rudolf Stampfl

Three Center Programs Recently Assigned New Directors

By Jeannie Beans

Although NADC's population is made up primarily of civilian employees, the military are certainly an important part of the Center's operation. Evidence of this is in the Command Projects Directorate which has a military officer as the director of each of their major programs. Three projects within the directorate have recently been assigned new directors.

LCDR Nick Brownsberger is the new director of the Acoustic Systems Program (1A). This program provides for the design, development, test and evaluation of a programmable acoustic processing system which is capable of processing present and future ASW sensors developed through the 1980's. The program also includes the development of many of the future generation sonobuoys.



LCDR Nick Brownsberger

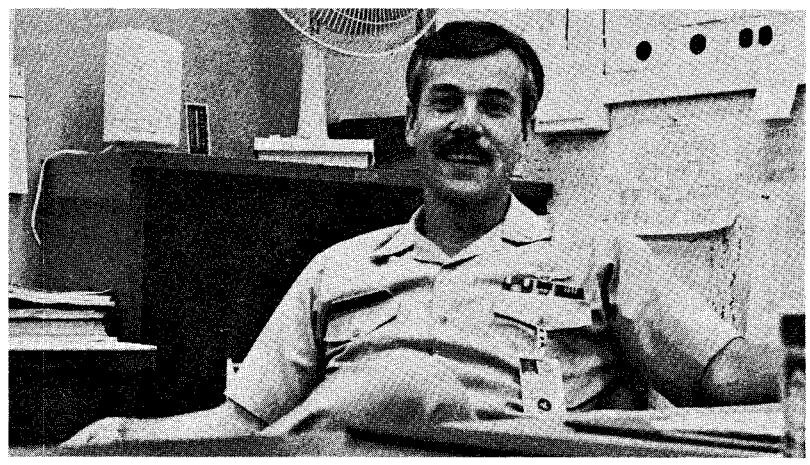
Brownsberger is from Orange Park, Florida and graduated from the Naval Academy in 1972 with his bachelor's in Aeronautical Engineering. His first tour of duty was aboard the destroyer USS Brownson. He then attended the Navy Flight School in Pensacola, Florida which was followed by a three year assignment in Patrol Squadron-16 in Jacksonville. His positions there were that of Aircraft Division Officer and Quality Assurance Officer.

In 1977 Brownsberger attended the Naval Postgraduate School where he received a master's degree with distinction in Aeronautical Engineering. He also was designated an Aeronautical Engineering Duty Officer while in Monterey. For the next 3 years Brownsberger was the S-3 Project Officer and Project Manager for the US-3 conversion at the Naval Air Rework Facility in Alameda, California.

Brownsberger then came to the Naval Air Development Center and served as the head of the Aircraft Department before he assumed responsibility for the Acoustic Systems Program. When asked about what he hopes to achieve, he commented that "one of my goals as program director is to provide meaningful leadership for the projects within the Acoustic Systems Program Office.

"I hope to provide a stabilizing influence as well as to coordinate the development of these new systems with their respective platforms."

The VP Program (1P) leads the Center's efforts to support the P-3C Fixed Wing/Land Based Patrol Aircraft. The program is responsible for the design, development, integration, testing and introduction to the fleet of a series of avionics and software improvements to the basic P-3C known as the UP-DATE series.



CDR Mike Milchanowski

NADC recently welcomed aboard CDR Mike Milchanowski as the new director of this program. He is a native of Johnson City, New York and began his naval career when he was graduated from the Naval Academy in 1969 with a Bachelor of Science in Naval Engineering.

His first tour of duty was for VP-8 in Brunswick, Maine. This was followed by his earning a master's degree in Aeronautical Engineering from the Naval Postgraduate School in Monterey. For the next three years Milchanowski was Hi-Energy Laser Officer for the Air Force Weapons Lab in Albuquerque, New Mexico.

Before coming to NADC as Program Director he was the Support Equipment R&D Director and Industrial Department Head at the Naval Air Engineering Center in Lakehurst, New Jersey. Also to his credit is a master's degree in Aeronautical Systems Engineering from the University of West Florida.

Of his new position Milchanowski said, "During my tour at the Center I intend to maintain and improve the VP Program's capability to lead in the direction of technical development, integration, test and support of the P-3C and its replacement weapon system into the 21st century."

CDR Dave Parry

CDR Dave Parry is the new director of the VS Program Office (1S). This program office acts as the single point of contact for all NADC involvement in the VS Weapon System development, testing and fleet software introduction and support. Currently this program is the S-3 Software Support Activity and the lead development activity for avionics improvements.

Parry is originally from Peckville, Pennsylvania and got his start in the Navy by enlisting in the Naval Reserve in March 1959. This was followed by his entering the Naval Academy and in 1964 he was graduated with a Bachelor's of Naval Science. He received his Naval Aviator Wings in 1966 and began his first tour of duty in Quonset Point, Rhode Island in VS-31.

He then went to VX-1, Key West where he was the S-2G Project Officer and the Assistant Project Officer for the S-3A and LAMPS Programs. Parry spent the next year as CVSG-56 ASW Officer aboard the USS Intrepid.

He was advisor to the Turkish Navy for two and a half years in Maritime Patrol Squadron 301 in Bandirma, Turkey. In 1975 Parry received an American University master's degree in Public Relations. The following two years were spent aboard the USS Nimitz as VS-24 S-3 Squadron Operations Officer. He also spent a year on staff in VS Wing 1, Cecil Field, Florida.

Directly before coming to NADC Parry was the Executive Officer at the Naval Air Propulsion Center in Trenton, New Jersey. Parry is pleased to be on the VS team. "The S-3 Program here has been almost exclusively software development up to just recently," he said. "Now it looks like we're moving into the world of systems hardware development as well. It's an exciting move for the S-3 team, and I'm glad to be a part of it.

"Development of the S-3 Communications Control Group, I'm sure, is just the first of many hardware projects that will result in this Center's providing the fleet an enhanced capability in all facets of battle group effectiveness."

Security

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ring on Center, including Navy Housing.

On the informational side of security administration programs, eight people are employed. They review material for public release, determine classification of information and when it can be downgraded or declassified. They provide guidance to contractors on the classification of their work and assist in the training of new employees on security procedures. Visitor control, foreign travel, clearances and security debriefs are also provided by the Security Division personnel.

There is an on-going program administered by the Security Division to help keep security fresh in the minds of NADC employees. Briefings, LOG notices and Security Notes are produced periodically for the purpose of increasing security awareness.

As a result of the recent "IG" inspection several changes in security procedures are becoming apparent. According to Chief Staff Officer, Captain James E. Sheehan, increased frequency of random vehicle searches, increased manning of gates and new badges are in the process of being instituted or are taking place now. Limiting access to "Shop Stores," remodeling the Main Lobby, changing the after hours traffic patterns in parking lot #2 and extensive modifications to the perimeter fence are other improvements that are being investigated. The stationing of additional perimeter guards around Center will help better control access to NADC. A civil service guard is now on duty in the main lobby to assist with visitor control during the morning. Additional security guards are positioned, one at the Credit Union and one at the crash gate, to help eliminate unauthorized access into the Center.

Sheehan stated that, "we are investigating 'state of the art' identification badge readers at all gates, entrances, conference rooms and shop stores." These readers would then allow only authorized employees, contractors and visitors access to the Center. The readers could be programmed to allow certain people in at certain times and could limit access on the basis of the level of clearance, i.e., secret, confidential, etc.

In keeping with Fisher's opening statement to help the other person in their security responsibility, we should all be on the lookout for security violations. Remember to wear your badge, lock that safe or door, close that gate, put away the classified documents and make sure you have a property pass for all government material. Security is indeed everyone's business.

Williams

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Commander in Chief, U.S. Pacific Fleet. In October of that year he returned to the Office of the Chief of Naval Operations as Deputy Chief of Naval Operations for Submarine Warfare. While in that assignment, he was chosen to become Chief of Naval Material and for promotion to Admiral.

The Reflector

Naval Air Development Center

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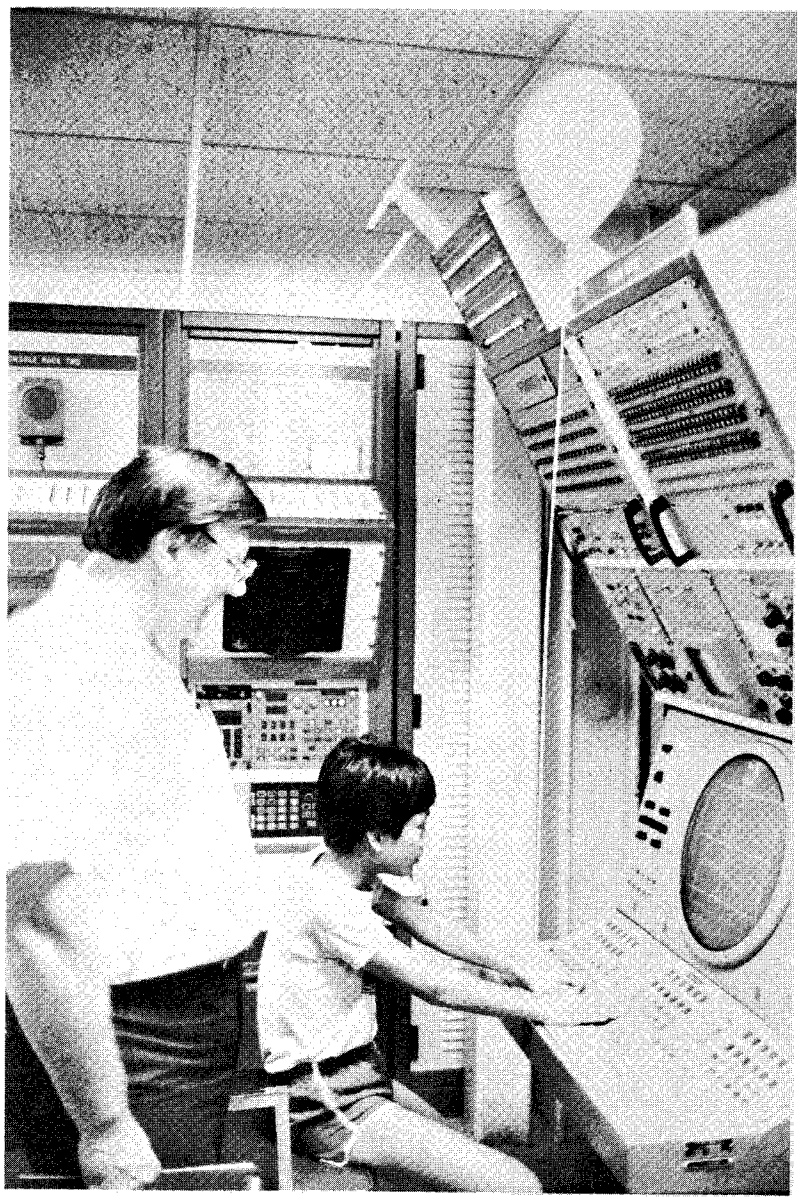
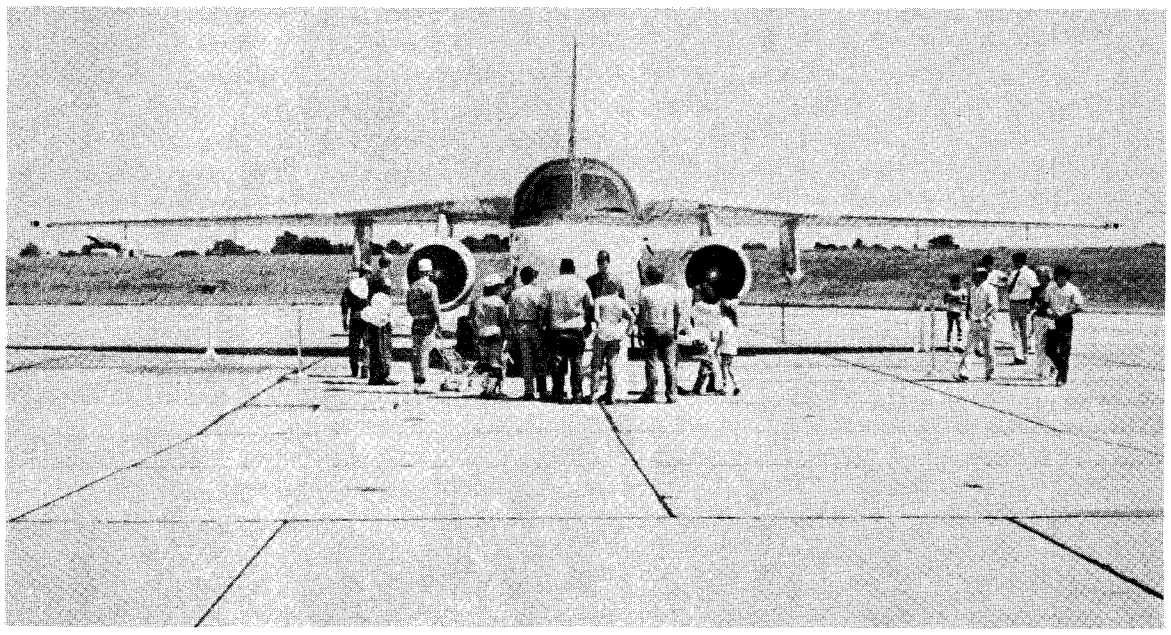
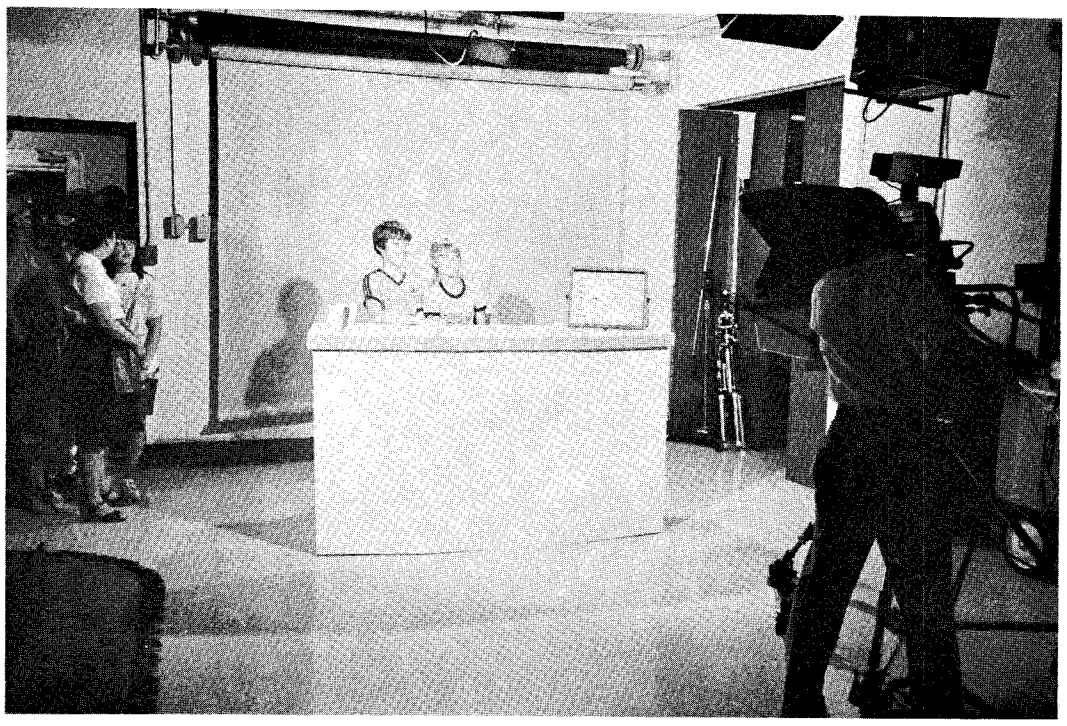
FAMILY DAY 1983

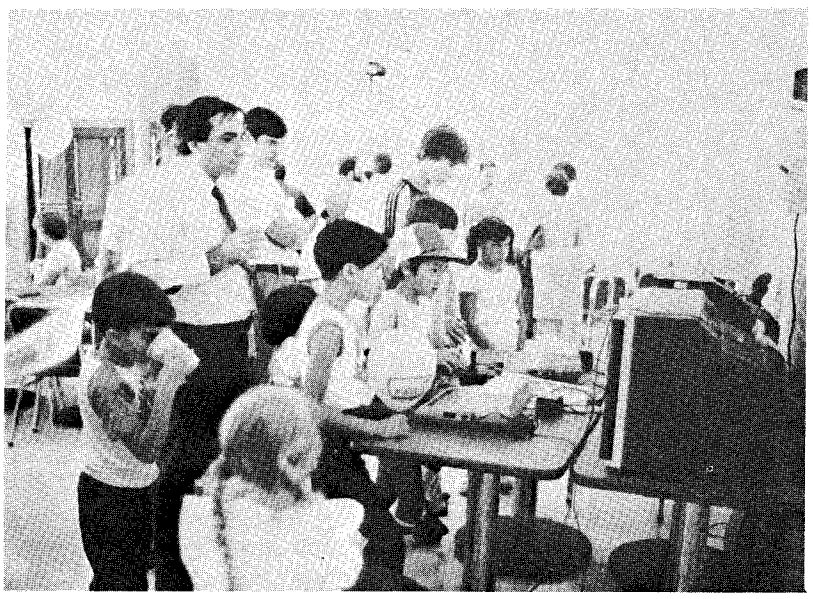




They came, they saw, they consumed. They were the families of NADC's employees who came to Center on the afternoon of 8 July for Family Day/Open House. Hundreds of children with balloons tethered in their hands, aunts, uncles and parents crowded the hallways, labs, offices and the cafeteria. It was time to acquaint family members with the work place and to let them know what we do for the taxpayers. Displays and demonstrations, films and slide shows, all held the families' interest.

There were life rafts to play in, centrifuge and ejection tower demonstrations to watch and computer club sponsored games to test the skills of video addicts. For 25 cents you could get a hotdog, a soda or waffles and ice cream. By all accounts NADC's Family Day was a success, the smiles told the whole story.





Employee Teaches Scouts About Safety and Survival

By Jeannie Beans

Annually for the past four years George Gillespie has combined his love for children and his pride in his work to the mutual benefit of both the Navy and the Boy Scouts of America. He does this by demonstrating safety/survival procedures and equipment to the scouts at the George Washington Scout Reservation day camp in Lambertville. This year he took Bill Zarkowski and four summer co-ops with him.

Gillespie said this is excellent training for the co-ops. Nancy Holden, Connie Newnham, Susan Gradous, and Dominic Arcidiacono received first-hand experience in public speaking and answering questions on survival equipment.

Gillespie and his group gave two demonstrations this year; one at the end of June and again at the end of July. He spoke to approximately 45 scouts, and underprivileged children from the Trenton area, ranging in age from 8 to 12.

"The kids enjoy it," Gillespie said, "it's good for them and keeps me in touch with people." Gillespie said that this gets him back to basics as he gears his presentations to the children's level. He also said that this is a good opportunity for the children to see that the safety/survival procedures they are learning in scouting are basically the same kinds of things that we are doing here at NADC.

Some of the items that he showed the children included: helicopter and fighter attack helmets, anti-exposure suits, life rafts, signaling items, life preservers, survival vests and kits, and chemical/biological protective masks.

"This is really rewarding," Gillespie said. "Sometimes I get feedback from children who have relatives and friends who are interested in or who work with various types of survival equipment.

"Years later I talk to children who remember my presentation as a very positive experience," Gillespie said.

NADC's guest speaker program is administered by the Public Affairs Office in cooperation with area schools and scouting programs. The goal of this program is to provide career guidance and information to children in their formative years and to create a positive impression of the Navy as a good employer and a good neighbor.

George Gillespie describes survival procedures and equipment to a group of Boy Scouts.

VERTREP Testing Successfully Completed

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75 foot free fall. A unique inflating balloon structure aids in the opening of a parachute and keeps the cargo close to the water's surface for easy recovery. The parachute limits the impact damage to the cargo.

Because the flotation device inflates only when the cargo separates from the aircraft, deployment of this device is seldom and requires a minimum of servicing by fleet personnel.

The VERTREP RAFT system, a project sponsored by Steve Hurst of NAVAIR 310C, is designed to recover and limit damage to cargo weighing from 300 to 3,000 pounds when it is jettisoned from an altitude of 75 feet to maximum altitude—while the helicopter is moving as fast as 100 knots.

Besides limiting damage and aiding in recovery, there are other advantages to the system. Certain types of cargo are more time consuming, thus more expensive, to transport internally; this system allows the external transport of high value cargo.

In addition, all types of ships can be serviced since no landing pad for the helicopter is required. Likewise, it eases transfer during rough seas, again, since no landing platform is required.

Use of this system requires little modification to those helicopters it is used with. It also has a minimal impact on the performance of the helicopter.

The system additionally has potential for technology transfer. The technology might be used in areas related to the delivering or dropping of emergency supplies, and the rescue and evacuation of personnel at sea.

The VERTREP RAFT was developed by the Aero Mechanical Branch, headed by Leo Markushewski, of the Aircraft and Crew Systems Technology Directorate. Besides Burch, Tor Jansen and William Wiseman participated in the development of the system. Two contractors, Air Cruisers Company and Boeing-Vertol were also involved in the development of the system.

Stampfl Retires From Systems Directorate

(continued from page 1)

cepted, and acquisition of the TACAMO/ECX project.

In addition, the directorate has helped revolutionize the Navy's approach to the cost of logistics, Stampfl said. A Naval Air logistics model has been proved and applied to logistics and budgetary planning.

From 1977-79, Stampfl headed the Communication Navigation Technology Directorate, and was responsible for a broad development program in air communication, command and control, and in air and ship navigation. Among the significant projects under his direction were the ring laser gyro, the electrostatically suspended gyro navigator and the Joint Tactical Information Distribution System.

As director of the Aero Electronics Technology Department from 1973-77, Stampfl was responsible for overseeing the research and development in the fields of electro-optics, communications, radar, underwater acoustics and information processing. This was during the turbulent years of the early microprocessor, he said.

After working in the federal civil service for over 30 years, Stampfl said he had no regrets in choosing a civil service career over a career in private industry.

"If young people asked me today, I'd recommend looking into the civil service thoroughly," he said.

"A technical career in the civil service is very unique in the U.S. because it gives you a wide range of opportunities and a variety of technical subjects and projects to work on . . . There are much narrower choices in private industry."

Stampfl, who received his bachelor's, master's and doctoral degrees in electronic engineering from the Institute of Technology in Vienna, Austria, said he had no specific plans for after his retirement from NADC, although he would like to continue to work in a suitable technical field.

Prior to working at NADC, Stampfl worked for several other federal agencies, including his longest time—13 years—with the National Aeronautics and Space Administration Goddard Space Flight Center and with the Army's Ft. Monmouth Signal Research and Development Laboratories.

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Commander Salutes Employees

Charles W. Haney, Michael E. Mocenter, Richard C. Gleich, Norwood J. Metcalf, and Donald R. Furmanski, all of SATD, for their presentations on reconnaissance photography given to Patrol Squadron-66.

Daniel S. McCauley, ACSTD, for his contributions to the Source Selection Evaluation Board for the Army's new Aircrew Integrated Helmet System.

LCDR Michael J. Duncan and Joseph P. Cody, PAO, both for their planning efforts for NADC's Family Day/Open House.

Structures and Aircraft Fire Division, Vincent Crusco, Rigging and Grounds Section, Security Division, Howard Security and the Electrical Test Equipment Branch, all for their outstanding performance during the Third Annual Flag Day Celebration and Fireworks Display.

HM1 Mark K. Ammerman, HM2 Jose R. Marrero and HM3 Donald K. McGee, ACSTD, all for their efforts in conducting the Unit Sweep Urinalysis.

Joseph Griffin and Vincent Crusco, both of ESG, AMCS Joseph Lamere, LCDR Paul Fredenthal, LCDR Steward Schreckengast, CDR Ronald Monkres, LCDR Burton Streicher, George Gianios, NPPSO, and Kenneth Clegg, ESG, all for their efforts during the recent prize fights held at NADC for the benefit of Navy Relief.

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NADC's Commander, Captain James B. Anderson, stated that the people who helped during the visit of the Skyship 500 were instrumental in kicking off a successful technology demonstration. A special thanks is extended to John Eney, program manager, and David Bailey, project engineer, for their efforts. The following people also deserve thanks for their efforts during the four day demonstration: Robert Fisher, John Kupetz, Sgt. Ed J. Long, Lois Kieserman, Joseph P. Cody, David B. Polish, William Myers, LT Norman Edwards, Jay Sarver, fire and crash personnel; also ADC Jerry Mc Swain, AD2 George M. Potter, AMH3 Stephan Lawson, AD2 Thomas E. Parkin, AD2 Curtis E. Miglionico, ADAN Richard T. Wittington, AMS2 William J. Reese, ATAN Vern C. Neal, John Linke and Donald Shaw.