NADC Reflector

Volume 32 Number 6 NAVAL AIR DEVELOPMENT CENTER, WARMINSTER, PA. June 1987

In This Issue:

DeLuccia decorated
Technology Transfer
Family Housing Office
Sports
Change of Command
Stay "Dry," Not High

First Lady of Computers

Hopper at NADC for Human Resources Week

Rear Admiral Grace Hopper, USN (Retired)

Computer whiz and veritable legend, retired Rear Admiral Grace Hopper will be the Guest of Honor and speaker at NADC for Human Resources Day on July 8th.

Grace Brewster Murray was born on December 9, 1906 in New York, New York. She claims as her second hometown, Wolfeboro, New Hampshire, to which she first traveled in the summer of 1907. She attended Vassar College, graduating in 1928, with Phi Beta Kappa and a Vassar College Fellowship. She attended Yale University, where she received the degrees of MA in 1930, and PhD in 1934, together with election to Sigma Xi and two Sterling Scholarships.

She returned to Vassar as an Assistant in Mathematics in 1931, becoming ultimately an Associate Professor. During this time, she received a Vassar Faculty Fellowship and studied at New York University (1941-42).

In December 1943, she entered the United States Naval Reserve. Upon graduation, she was commissioned Lieutenant (JG) and ordered to the Bureau of Ordnance Computation Project at Harvard. Here, she learned to program the first large-scale digital computer, Mark I. In 1946, she resigned from her leave-of-absence from Vassar and joined the Harvard Faculty as a Research Fellow in Engineering Sciences and Applied Physics at the Computation Laboratory where work continued on the Mark II and Mark III computers for the Navy. In 1946, she received the Naval Ordnance Development Award.

In 1949, she joined as Senior Mathematician, the Eckert-Mauchly Computer Corporation in Philadelphia, then building the UNIVAC I, the first commercial large-scale electronic computer. She remained with the company, now Sperry Corporation, as a Senior Programmer. She was later appointed Systems Engineer, Director of Automatic Programming in 1952 when she published the first paper on compilers. In 1964, she became Staff Scientist, Systems Programming. She retired from the UNIVAC Division of the Sperry Rand Corporation in December 1971, while on military leave.

(continued on page 4)

Loyal to the *CORPS*

by Jim Kingston

No, we don't mean the Marines. This CORPS is an acronym for "*C*omputer *R*esources *P*rocurement *S*ystem" and it simplifies, speeds up, reduces cost, and all-around does good things to make your procurement of computer resources quick and easy.

According to Dr. Ed Feinberg, NADC's ADP Official, "CORPS will save the Center thousands of clerical, engineering, and management manhours each year in preparing and reviewing procurement requests for computer resources."

The instructions and ADP-related supporting documentation fill a huge loose-leaf binder to overflowing. These were implemented by a largely manual process. Often, missing data required requests had to be routed back to the originator. Changes were difficult to keep up with because of SECNAV data processing regulations. What could or should take about 3-4 days often wound up taking 3-4 months!

Enter, CORPS! The new system requires one form which is computer-generated and virtually "walks" the preparer through step-by-step, asking pertinent questions regarding the equipment or service to be procured. When all questions are answered, a summary is printed out. If the system detects any problems with the request, the summary sheet tells the originator to contact the ADP official . . . it's virtually fool-proof! The requestor reviews the summary and if everything is correct, signs and dates it. His or her signature serves as a certification of the accuracy of the request. The identification number on the summary is noted on the Purchase Request (PR) and the two documents get stapled together and go for departmental approval. The department approving official need only review the summary sheet and sign off on the PR.

With CORPS, a summary which used to take hours—even days—to prepare can be completed and printed by anyone in five to ten minutes. No clerical support is required, no pouring over detailed instructions, directives, or complex forms.

Since Dr. Feinberg is the ADP Official who reviews all procurement requests, using CORPS simplifies and speeds up his review process. With the system, he can review and process many times the number of requests as was possible under the old system. The significance becomes apparent when you realize there are more than 1800 ADP requests made each year. Jeff Saks, who worked with Feinberg in developing CORPS shares the responsibility for reviewing these requests. Joan Garafalo handles preview and postreview processing of the procurring requests.

During review of procurement requests by the ADP official, the CORPS summary is removed from the PR and becomes an enclosure to the ADP review memo. This eliminates the need to repeat details of the procurement in the ADP memo and allows the use of a preprinted form ADP memo. Prior to the advent of CORPS, individually tailored ADP memos were prepared, often requiring several days. Now, the ADP memo is completed in minutes, at the

(continued on page 8)

Photo by JO2 Todd Lufkin

***UNDER SECY SPEAKS TO AFCEA**—Dr. Ronald L. Kerber, Deputy Under Secretary of Defense for Research and Advanced Technology, addresses members of the Armed Forces Communications and Electronics Association (AFCEA) at their annual luncheon held in NADC's dining room late in May.*

FOURTH OF JULY MESSAGE FROM THE PRESIDENT

On July 4th, Americans everywhere gather to celebrate the birth of our Nation. We commemorate the achievements of the Founders who built the Republic; we reaffirm our dedication to liberty; and we pause in pride and gratitude to remember the service and sacrifice of those who made us and keep us the land of the free and the home of the brave—the men and women of our Armed Forces.

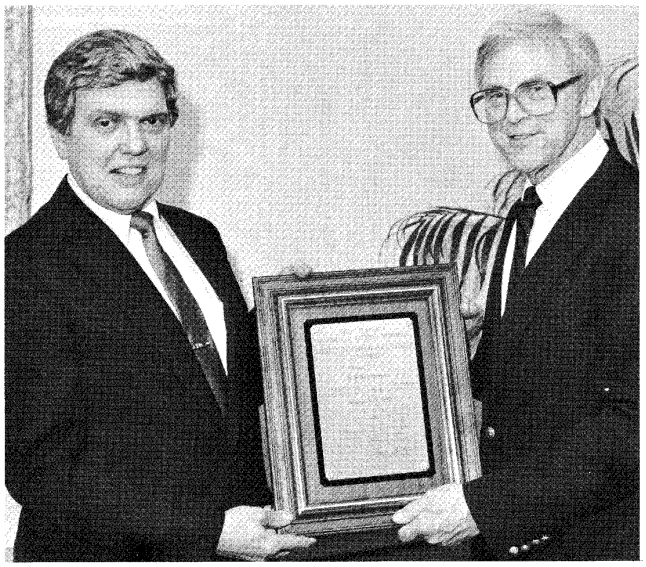
Independence Day 1987 is special, because this year we mark the Bicentennial of the Constitution, the anchor of the freedom and independence cherished by all Americans. The magnificent document the Founding Fathers hammered out two centuries ago remains as relevant and timely as the day the final draft was signed. But, as the members of the Army, Navy, Air Force, Marine Corps, and Coast Guard well know, the freedoms it embodies have been safeguarded at great price.

Throughout our history, millions of Americans have made tremendous sacrifices—many giving up their lives—in defense of a common vision of a Nation governed of the people, by the people, and for the people. Today this legacy continues in the dedicated professionalism of you—our service men and women at home and in outposts around the globe. Long after this year's Independence Day parades are over, long after the last skyrocket explodes in the night sky, the American people will continue to look to you to guard their hard-won independence. As your Commander in Chief, I am proud to send a special salute to all of you who wear our Nation's uniform so proudly. Your commitment to our country's defense means that we will always have cause to celebrate freedom, on the Fourth of July and every day.

God bless you, and God bless America.

Ronald Reagan

Ronald Reagan



***Drexel decorates DeLuccia**—John DeLuccia (left), supervisor of the Aerospace Materials Division, accepts the "Distinguished Alumnus Award" from Harry Rogers, acting head of Drexel University's Materials Engineering Department. DeLuccia recently received the award for his outstanding contributions to education and corrosion of materials research. He received his Bachelor's Degree from Drexel in 1961 and teaches there part time.*

Commander Salutes

Judy Koper, Lauretta Wormser, Nancy Lindsey, Susan Tiley, Daniel McCauley, Gregory Sweriduk, Wendy Lin, Mary O'Dowd (Code 60); **Lisa Johnson, Helen Ling, Sheila McGuire, Ruth Pickering** and **Patricia Beach** (Code 70): For participating in the Archbishop Wood High School for Girls math and science presentation at NADC.

If the SOC Fits

by Robert Janes

In April's Standards of Conduct (SOC) column, I wrote about the passage of a new law restricting the post-employment activities of certain DoD employees. We have now received the DoD regulations which implement this statute, and in this month's column I will provide some additional information about it.

At the outset, I note that the April column was incorrect in one respect. I erred in stating that the law applies only to civilians at or above the GS–13 level and officers at or above the 0–4 pay grade. This is correct insofar as officers are concerned, but the regulations make clear that the statute encompasses all civilians at or above **the minimum rate of pay** for a GS–13. Thus, the law also applies to those GS–12 or WG/WS employees who are at a high enough step that their pay exceeds the GS–13 minimum.

The law applies to any employee who spends the majority of his working days during the two years before he leaves DoD in either of the following capacities:

a. Performing a procurement function relating to a DoD contract at a site or plant of a major defense contractor; or

b. Performing a procurement function relating to a major defense system and, in the performance of that function, participating on any occasion personally and substantially in a manner involving decision-making responsibilities with respect to a contract for that system through contact with a major defense contractor.

As you can see from the above language, which is taken pretty much verbatim from the regulations, this statute can prove quite confusing. Some of the key phrases here are defined in the regulations as follows:

Major defense contractor—one who received over $10 million in defense contracts during the prior fiscal year.

Major defense system—Generally, this includes those systems with expected overall RDT&E expenditures exceeding $75 million or expected total procurement expenditures exceeding $300 million.

Majority of working days—The important thing here is that the actual time spent is immaterial. It is the number of working days that counts. Thus, if an employee spends just one minute a day performing the requisite procurement functions, on more than 50% of his working days during the last two years of Government service, he fulfills this aspect of the law.

Procurement function—This is defined broadly, and includes **any function relating to** (a) the negotiation, award administration, or approval of a contract; (b) the selection of a contractor; (c) the approval of a change in a contract; (d) the performance of quality assurance, operational and developmental testing, the approval of payment, or auditing under a contract; or (e) the management of a procurement program.

An employee covered by this new law is prohibited from working for the contractor involved during the two year period after he leaves DoD. The penalties for violation of the law can range as high as $250,000 for the employee and $500,000 for the contractor. Thus, although the law would not apply to many NADC employees, if you are one of those to whom it would apply, the consequences of violating it are extremely harsh.

One key feature of this statute is that it specifically provides that an employee may obtain a written legal opinion concerning the law's applicability to a proposed new job. The statute and regulations can be confusing, and I urge any of you who have questions concerning your coverage under this law to see me for such a written opinion. In light of the potential penalties, it would be foolish not to get such an opinion beforehand if there exists any reasonable question concerning the law's applicability. Indeed, it appears that many large businesses will require prospective employees coming from DoD to obtain such an opinion before hiring them to work for them.

NADC Reflector

NAVAL AIR DEVELOPMENT CENTER, WARMINSTER, PA

Volume 32
Number 6
June 1987

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 041, Naval Air Development Center, Warminster, PA 18974-5000 (441-3067).

Commander, NADC ..... **CAPT Edward J. Sturm**
Technical Director ..... **Guy C. Dilworth, Jr.**
Public Affairs Officer and Editor ..... **James S. Kingston**
Associate Editor ..... **Mary Ann Brett**
Assistant Editor ..... **JO2 Todd Lufkin**

TECHNOLOGY TRANSFER

Royalties paid to spur innovation

by Mary Ann Brett

More than 40% of the applications for patent/invention being filed in the United States today are coming from foreign countries—a trend that seems to indicate the technology push once centered in the U.S. is dwindling.

In an effort to revitalize innovation, Congress instituted the Federal Technology Transfer Act of 1986 (PL 99–502), the latest in a series of bipartisan initatives to encourage domestic technology transfer.

The Congressional Record reports the federal government spending tens of billions of dollars annually on research and development. Federal laboratories (like NADC) alone spend some $18 billion and employ one-sixth of the nation's scientists and engineers. The federal government makes this huge investment to serve public needs, particularly in defense, health, and space. In the process, scientists and other federally supported researchers create a wealth of unclassified inventions and ideas, which, if properly used, could be of enormous value to state governments and American industry.

Historically, however, legal barriers and lack of communication have prevented states and the private sector from taking full advantage of this national resource. With international competition so strong Congress feels we can no longer afford to ignore this available technology.

In 1980 the Stevenson/Wydler Technology Innovation Act directed federal laboratories to create offices to assist the transfer of federal inventions and expertise. Later that year, the landmark Bayh-Dole Patent Amendment gave small business and non-profit organizations including universities the right to own and develop inventions that result from federally funded research. Until then, very few federal inventions were ever used by American companies or universities.

The 1986 Act gives federal agencies the authority to enter into mission-related, cooperative research and development work with industry, state governments, universities, and others. For the first time, the nation's nearly 700 government-operated laboratories will have clear authority to work side-by-side with industry and the states to better utilize unclassified federal inventions and ideas.

This Act also gives government employees an incentive to work on projects that have commercial potential as well as being mission related.

The Act guarantees that federal inventors will now receive a share of the royalties when and if an invention is commercially licensed. This means a guaranteed 15% minimum (not to exceed $100,000) share of the royalties to the inventor(s). Previously, all royalties went into the U.S. Treasury.

Henry (Hank) Hansen, Patent Counsel for NADC, explained that now, when an invention is reported at the Center and it is determined to have sufficient Navy interest to warrant the expense of filing for a patent application, it will also automatically be considered for commercial licensing.

Additionally, the Technology Transfer Coordinator, Jerry Bortman, will publicize and distribute the invention disclosure to those industries which might have an interest. If prospective licenses result, the Center would enter into negotiations with the companies for the purpose of granting a royalty-bearing license for commercial use.

ROYALTIES

As we stated, a minimum of 15% ($100,000 max) of the royalties will be granted to the inventor(s). The remaining 85% can be used by the federal laboratories to cover the expenses of the Technology Transfer Program, to supplement rewards to personnel who have invented technology with only military applications, and to further scientific exchange, education, and training. Although agencies already award nominal amounts for mission-related patents, they now have the authority to make substantial cash awards when deserved.

COOPERATIVE RESEARCH AND LICENSE AGREEMENTS

In the past, the Center has entered into cooperative agreements with universities on a limited basis. But, until recently, the 'bid and contract system' was virtually the only avenue for R & D labs like NADC to work with private industry. Now the labs can make legal agreements to work side-by-side with the private sector provided it is in the government's best interests.

Bortman explained that in one of these agreements the Center could contribute resources such as people, facilities, and equipment—almost anything short of cash. The industry partner could contribute the same, including cash.

Also, each laboratory may now enter into its own license agreements instead of having the determination made in Washington, D.C. And, the inventor(s) will participate in the negotiations. In fact, an NADC Invention Evaluation Board has been designated. It consists of the Associate Technical Director, the Patent Counsel, the Technology Transfer Coordinator, and one of the technical department heads on a rotating assignment basis. This Board will evaluate the patent application for Navy as well as commercial use and it will determine whether to apply for a patent.

"With the help of the University City Science Center, a non-profit consortium of universities and hospitals," said Bortman, "the Center is re-examining patents granted in the past five years. We are looking for potential (or in some cases, broader) commercial applications and the possibility of granting or renewing licenses for royalties."

Some of the more familiar NADC technology innovations already transferred into industry include NOMEX (Dupont trademark name), a fire retardant fabric developed here. The fiber for the fabric was considered by Dupont for use in electrical insulation and tires. About 15 years ago, a scientist at the Center proposed the fiber could be woven into fabric and used in protective clothing for naval aviators. After years

(continued on page 7)

Aircrewman in anti-exposure garment of NOMEX fabric.

Stamping Out Computer Crime

If you were a computer hacker and wanted to enter someone else's system, how would you get the password?

According to DoD security officials, it's very possible you'd find it tacked to a bulletin board or, even more conveniently, in a desk drawer, right there with the combination to the safe.

If not, you could probably figure it out if you knew something about that person. Often people choose passwords based on their name, address, telephone or Social Security number, husband or wife's name, maiden name or children's names.

The most common woman's name for passwords is "Susan." For men, it's "Fred," likely because it can be typed with one hand. "Elvis" is the most common password for rock and rollers, and car buffs tend to go for "Porsche" or "Corvette."

To discourage computer crime, DoD officials recommend selecting a password that mixes together six or more letters and numbers. Memorize it so you don't have to write it down. Don't share it with other people, and change it at least once a year.

DoD security experts offered these additional computer security tips:

- ❑ Limit physical access to your computer room and systems.
- ❑ Keep monitors and screens away from windows and doors.
- ❑ Don't leave a system operating unattended.
- ❑ Don't walk away from a system that's logged onto a network.
- ❑ Have maintenance performed only by authorized and qualified people, and only after sensitive information is removed.
- ❑ Strictly control any modifications to system hardware.
- ❑ Use an audit system.
- ❑ Use electronic labels to show the sensitivity of information.
- ❑ Protect or destroy magnetic storage media, even after overwriting and degaussing.
- ❑ Protect the ribbons used to process sensitive information.
- ❑ Secure the system at the end of the day.
- ❑ Never work on sensitive information at home.

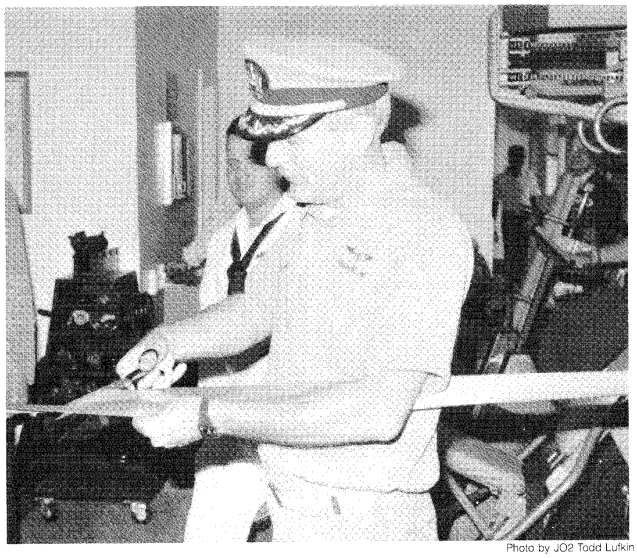


Photo by JO2 Todd Lufkin

TIE A YELLOW RIBBON—around the new Recreational Services weight-training room. Center Commander, CAPT Edward Sturm, officially opens the remodeled facility and urges all employees (civilian and military alike) to utilize the equipment. The facility is headed by Ron Brewer and managed by Jeff Tolle.

Housing — a family business

by JO2 Todd Lufkin

Highlights of their credo include: "military families or individual service members . . . are the most important persons who enter our offices; they are not an interruption of our work, but the purpose of it . . . Our job is to respond to their requirements as expeditiously and efficiently as possible . . . Our job is to adequately house the military families."

They carry out this philosophy to a tee—and then some.

They are the staff of the Center's Housing Office.

Led by Mr. E.J. "Lee" Leibrandt (Housing Management Director), they include Linda Carey, Elaine Mears, Diane Fischer and Ann Powell.

Leibrandt prefers to downplay the word 'referral' in his office's title. "This makes it sound like we just refer people to rental agencies," he stated. "In fact, we actually find suitable housing and list apartment complexes, utility companies, day care centers, etc."

The Housing Office or Code 8302 has served the Center's military members for 12 years. Originally housed in Shenandoah Woods, they moved due to a fire. They have been in Building 135 for a little over a year-and-a-half.

"Although separated from the rest of NADC by Jacksonville Road, we are still an integral part of the Center," stressed Leibrandt.

Code 8302 also maintains the 199 three and four bedroom townhouse units at Shenandoah Woods and six Married Officers' Quarters along Jacksonville Road.

The Housing Management Director and Linda Carey have attended the extensive training course in Jacksonville, Fla.—Introduction to Family Housing Management. "This is a two week, extensive course," explained Carey, "what we learned there, the Navy Housing Family Housing Manual (NAVFAC P–930), and some common sense are our guidance."

The Housing Office receives its funding from Northern Division, at the Philadelphia Shipyard. "The usage of this money is very strict," stated Leibrandt. "It goes into NADC's budget and we have to use it the way that it is ear-marked. For example, if there is money for snow removal, then that's what it's used for."

Photo by JO2 Todd Lufkin

E. J. "Lee" Leibrandt—Housing Management Director

They receive approximately 300 walk-ins per year and what "seems like a million phone calls," said Carey. The office is open Monday thru Friday from 6:30 A.M. to 4:30-5:00 P.M.

Leibrandt's philosophy for customer relations carries over into the office—"Do the most you can for these people." To aid with this goal there is also a 12 member Housing Advisory Board to get tennant inputs and responses. He quickly points out that this is not just a gripe session, these meetings do bear fruit.

Diane Fischer has been with the Housing Office for a short time. When she arrived she had no housing experience. However, she quickly "picked up on the system and expanded upon it," stated Leibrandt.

Fischer works with the maintenance of Shenandoah Woods and runs the trouble phone, where she receives between 20-25 calls a day. She listens to the problem or complaint and then assigns the case to one of the two contractors. She also maintains repair-maintenance files for each household.

Anne Powell came to the Housing Office from Public Works in April. She is a clerk-typist and covers for Fischer on the trouble phone. Powell also works in the Self-Help Shop in Shenandoah Woods for several hours three times a week. Here tennants can pick up gardening or home maintenance equipment. "I enjoy meeting the public and associating faces with voices that I've heard on the phone," stated Powell.

Elaine Mears has been with the Housing Office several years. She is in charge of inspecting the Shenandoah Woods' units to ensure that they are left in the same condition that they are found by the tennants. "We're rigid, but fair," stated Leibrandt, "we have to be. This is their home away from home."

The Housing Management Director notes that no one in his office has any real set function. "We can't just limit ourselves to just one thing. What would happen if we were sick? You can't tell the people on the phone 'I'm sorry, but we can't help you until Diane or Elaine gets back,' No, we all do some of this and that."

The Credo for Navy Family Housing Management Personnel ends with "Service is our business!" The highly enthusiastic Housing Office team personifies this philosophy as this customer agrees.

Photo by JO2 Todd Lufkin

Diane Fischer

Photo by JO2 Todd Lufkin

Linda Carey

Photo by JO2 Todd Lufkin

The Housing Office Staff—(L-R) Anne Powell, Linda Carey, Diane Fischer and E. J. "Lee" Leibrandt. Missing from picture is Elaine Mears.

Hopper to visit NADC

(continued on page 1)

During the years from 1952 to the present, she has published over fifty papers and articles on software and programming languages. She has also served on the ANSI X3.4 Committee on the standardization of computer languages. She is presently serving on the CODASYL Executive Committee.

She has served, starting in 1959, first as Visiting Lecturer; in 1962, as Visiting Assistant Professor; in 1963 as Visiting Associate Professor; and since 1973, as Adjunct Professor of Engineering at the Moore School of Electrical Engineering of the University of Pennsylvania. In 1971, whe was appointed Professorial Lecturer in Management Science at the George Washington University and served until 1978.

In 1962, she was elected Fellow of the Institute of Electrical and Electronics Engineers. In 1964, she was selected to receive the 1964 Achievement Award by the Society of Women Engineers. In 1969, the Data Processing Management Association selected her as their first Computer Sciences "Man-of-the-Year." The American Federation of Information Processing Societies gave her the Harry Goode Memorial award in 1970. In 1971, the UNIVAC Division of the Sperry Corporation initiated the Grace Murray Hopper Award for young computer personnel to be awarded annually by the Association for Computing Machinery. In 1972, she received the honorary degree of Doctor of Engineering from the Newark College of Engineering, a Wilbur Lucius Cross Medal from Yale University, and was made a Fellow of the Association of Computer Programmers and Analysts.

In 1973, she received the honorary degree of Doctor of Science from the C. W. Post College of Long Island University, was elected to membership in the National Academy of Engineering, was presented with the Legion of Merit by the Navy, and was selected as a Distinguished Fellow of the British Computer Society. In 1974, she received the honorary degree, Doctor of Laws, from the University of Pennsylvania at the 50th Anniversary Convocation honoring the Moore School of Electrical Engineering.

In 1976, she received the Distinguished Member Award of the Washington, D.C. Chapter of the Association for Computing Machinery, and an honorary Doctor of Science from the Pratt Institute. In 1979, she received the W. Wallace McDowell Award from the Institute of Electrical and Electronics Engineers (IEEE) Society.

In 1980, she received the Meritorious Service Award from the Navy, an Honorary Doctor of Science from Linkoping University, Sweden, Honorary Doctor of Science from Bucknell University, and an Honorary Doctor of Science from Acadia University, Nova Scotia. In 1981, she received Honorary Doctor of Science degrees from Loyola University, Chicago and the Southern Illinois State University and an Honorary Doctor of Public Service from George Washington University, Washington, D.C. In 1982, she received an Honorary Doctor of Humane Letters from Seton Hill College, Greensburg, Pennsylvania, and attended the dedication of the Grace Murray Hopper Center for Computer Learning, Brewster Academy, Wolfeboro, New Hampshire.

In 1983, she received Honorary Degrees from Lake Forest College, Lake Forest, Illinois; Clarkson University, Potsdam, New York; Hood College, Frederick, Maryland; Russell Sage College, Troy, New York; Villa Julia College, Baltimore, Maryland. In 1984, she was honored with the IEEE Computer Pioneer Medal, American Association of University Women Achievement Award, Federally Employed Women Achievement Award, and the Association of Computing Machinery Distinguished Service Award. She received the Living Legacy Award, Women's International Center, San Diego, California and was one of the recipients of the Women of the Year Award, Young Women's Christian Association of the National Capital Area.

(continued on page 7)

Sports

Granfalloon takes early lead in League Race

by Charlie Destra

The Granfalloon, not surprisingly, was leading the pack in the Softball League's race for the crown with a 9-2 record, at press time. But their lead, with roughly half the games played, was a narrow one over several teams.

Also soaring to impressive starts were two newcomers, the Misfits (8-2) and Bandits (6-1), the 8th Inning (7-2) and the Nightriders and Bearcats (6-2). The Bearcats had been alone at the top with a 6-0 record before dropping two straight (to the Nightriders and Devils). And the Druids, rebounding from a slow start, have climbed back into contention, as expected, with a 6-4 mark.

Those seven teams look very solid, and at this early stage would appear to have playoff berths locked up. Only 10 teams will make the playoffs and it is virtually unforseeable for any of these teams to falter and drop below the top ten by season's end. Basically, their losses have been to each other, evidencing a seven team hierarchy in the league.

So, that leaves 13 teams fighting for only three available post-season spots. Of these teams, the Rebels (5-5), Devils (4-3), Pacer (3-2), CSC and Renegades (3-3) would seem to have the best chances to finish in the upper half. The once-mighty Guzzlers at 2-4 have a shot, but are having difficulty adjusting to defections that have apparently affected their status. They're scoring 8 runs per game and giving up an uncharacteristic 14. The Orange Crush are 3-4, but doubts remain as to whether they're for real.

The Rumblers (3-7), one of the better hitting teams, are unfortunately, also one of the worst defensive squads, having surrendered a bloated 159 runs in 10 games. They are likely to come up short, along with the Phantoms and Dawgs (1-5), Analytic Animals and Cellar Rats (1-7), and the winless Dyna Tigers (0-6).

For the seven teams at the top and the six teams at the bottom of the standings, their fate is pretty much secure. It's those seven teams that are sandwiched in the middle that will come to play every day and battle tooth and nail for the remainder of the season hoping to finish in the top ten.

POP - UPS

by Charlie Destra

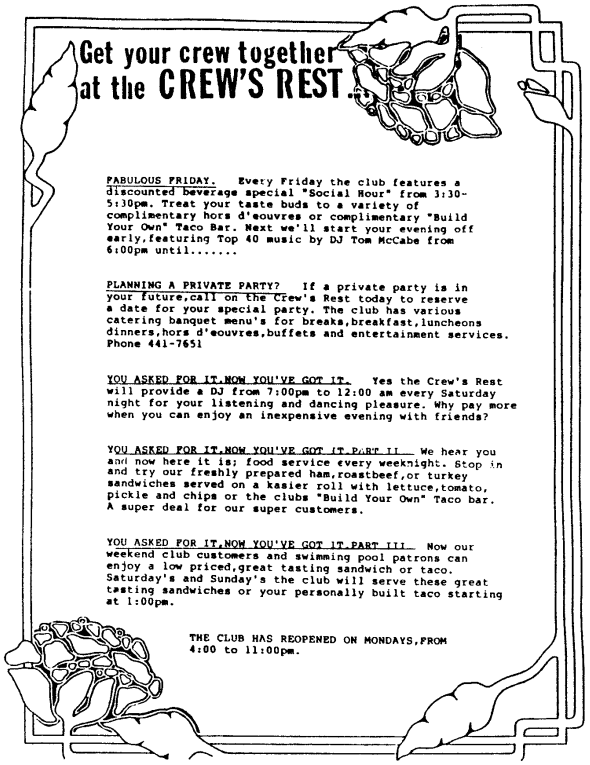
The All-Star game format is not yet set in concrete but the plan is to have a 3 or 4 team round-robin tournament to be played 11 July at the Sailor's, Inertial and Tyler fields. A firm agenda and further details will be posted via flyers at various Center locations .....

Which team has the most potent lineup? How about the Granfalloon, who now have 11 players with at least one home run. (Mark James has been the main man with six.) Compare that to the Phillies who have 13 players with at least one homer and have played 35 more games .....

The 'Falloon staged the season's best comeback, erupting for nine runs in the last two innings to overcome an 11-3 deficit against the Nightriders. Mark James' two-run blast (two outs, 2-2 count) iced the 12-11 win .....

Definition of a .500 team: Rebels, 5-5 record, 111 runs scored (12.3 average), 114 runs surrendered (12.6) .....

The league has featured some unusually high scoring fiascos this year. No less than 14 of the 20 teams were averaging more than 10 runs per game (with two others at nine); thus, the Nightriders' 1-0 defensive struggle over the Druids was a rare purist's affair, and a welcome and refreshing change.

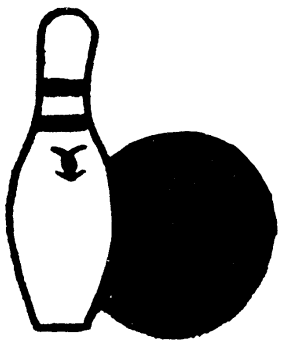


MIXED BOWLING NEWS

by Tom Reiter

Congratulations to Neil Weinman's Magic Markers for repeating as champions of the Mixed League. Starting with the last night of the season, they caught and tied Helene Goldstein's 11'th Frame causing a special, 2'nd half tie-breaking 3 game roll-off.

After winning by 54 pins, they took on Bob Geyer's Alley Cats for Division honors. Winning their Division by 37 pins, the next step was the League Championship battle with Al Knobloch's perennial titans, the Goofers.



Confusing the opposition and the scorekeeper by using nine different bowlers, they took a 66 pin lead into the final game of the season. Then came Andrea Sicher's explosion of a near perfect 289 game and it was all over. Everyone is happy for Neil and his team, their good sportsmanship is representative of all our bowlers. Again, congratulations—we'll meet again at the awards banquet.

MAGIC MARKERS
NEIL WEINMAN (C)
THERESA WEINMAN
ED BEACH
DIANNA BEACH
JEFF IRVIN
LARRY SICHER
ANDREA SICHER
GLENN SAVAGE
LOIS SAVAGE
LEE BOURGEAULT

ALMOST PERFECT!

by Tom Reiter

The bowling season ended with two outstanding efforts. In the Men's League, Mark Cahill bowled a 299 game on the last regularly scheduled night. After eleven straight strikes, only a wobbling six pin kept him from perfection. His 299 matches Chuck Hegedus' as the highest score ever bowled at Thunderbird, Street Lanes.

Andrea Sicher of the Mixed League's reigning champion Magic Markers waited until the final game of the Championship rolloffs to calmly(?) roll ten straight strikes before leaving the dreaded ten pin on her eleventh ball. She covered that to finish with a 289 game. Considering she went into the game with a 140 average, and the pressures of championship play, her feat was one of the greatest ever seen by the Mixed or any League.

Congratulations to Mark and Andrea!

NADC Outdoor Swimming Pool Open

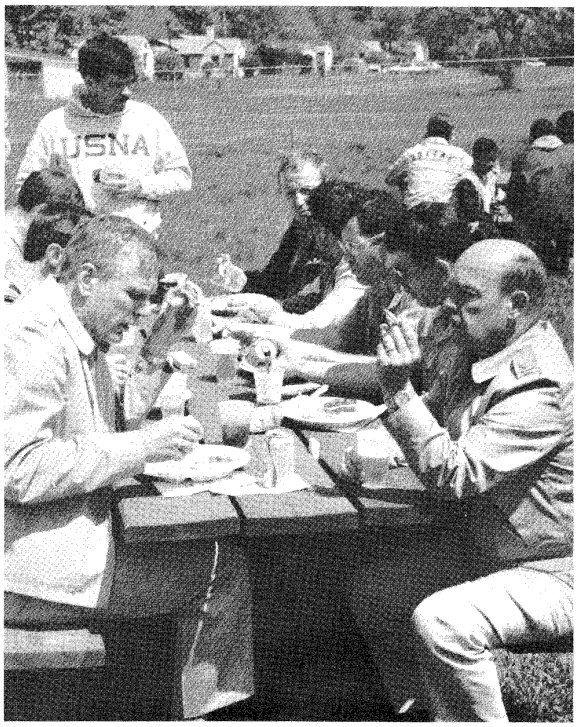
The NADC Outdoor Swimming Pool is now available to all permanently assigned NADC federal employees, on a space-available basis. NADC federal employees may only use the pool Monday through Friday, from 1:00 p.m. to 8:00 p.m. excluding federal holidays. Daily admission is only $1.50, payable at the Outdoor Swimming Pool. NADC federal employee may sponsor one immediate family member, but may not sponsor a guest. NADC contract employees are not authorized use of the pool.

The Outdoor Swimming Pool is located behind the Crews Rest, building #7. The pool features a new stereo sound system, patio tables, chairs, and lounges, lockers for clothing storage and a solar pool cover to retain the water's heat. Additionally, the pool has a new playground set for the children.

Private Pool Parties can be held at the pool after 8:30 p.m. until 1:30 a.m. All food and or beverages for your private party, must be contracted through the Crews Rest, phone 441-7651. Private pool party fees are as follows:

0-49 people	
8:30 p.m.—11:30 p.m.	$43.00
8:30 p.m.—12:30 a.m.	$49.00
8:30 p.m.—1:30 a.m.	$55.00
50-74 people	
8:30 p.m.—11:30 p.m.	$71.00
8:30 p.m.—12:30 a.m.	$83.00
8:30 p.m.—1:30 a.m.	$95.00
75-125 people	
8:30 p.m.—11:30 p.m.	$99.00
8:30 p.m.—12:30 a.m.	$107.00
8:30 p.m.—1:30 a.m.	$125.00

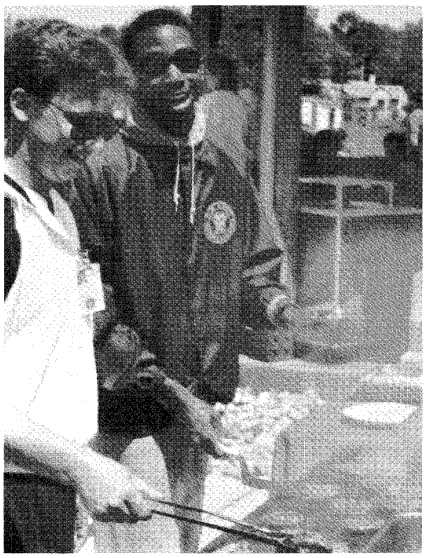
A picnic makes the pain worthwhile

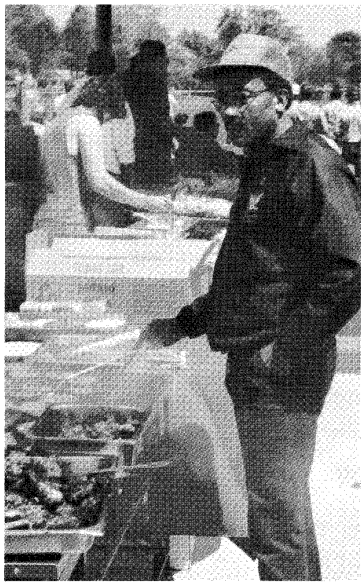


Photos by JO2 Todd Lufkin

Captains Edward Sturm and Fred Wright converse during military picnic after semi-annual Navy physical fitness testing. The picnic was sponsored by Recreational Services.

Command Master Chief, AFCM Nelson Williams has "volunteered" as relief cook for his hungry friends and co-workers.





AME2 Mike Dixon (left) and AD3 Rickie Grant lend a hand at cooking an endless amount of food.

VIEWPOINT

Photos by JO2 Todd Lufkin and Mary Ann Brett

This month's question is:

"What is your biggest goal for this summer?"

Lois Kieserman—Code 04413

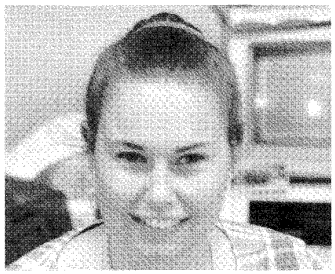
"To retain whatever is left of my sanity for the new security system."

Athena Morgan—Code 8132

"To better myself, work harder and to be a successful person in life."

ATCS John Allen—Code 1B12

"To sail and tan all summer long without getting burned."



Debbie Sztubinski—Code 30S

"To put our new sailboat into the water for the first time—without involving the Red Cross or the Coast Guard!"

John Scott—Code 07

"To play better golf and help the 'Duffers' to a championship."

LT Edward Redmann—Code 1021

"Keep my garden alive, read more and have a great vacation with my wife."

Mariane Kuebler—Code 80C

"To get my new job, marriage and house off to a great start."

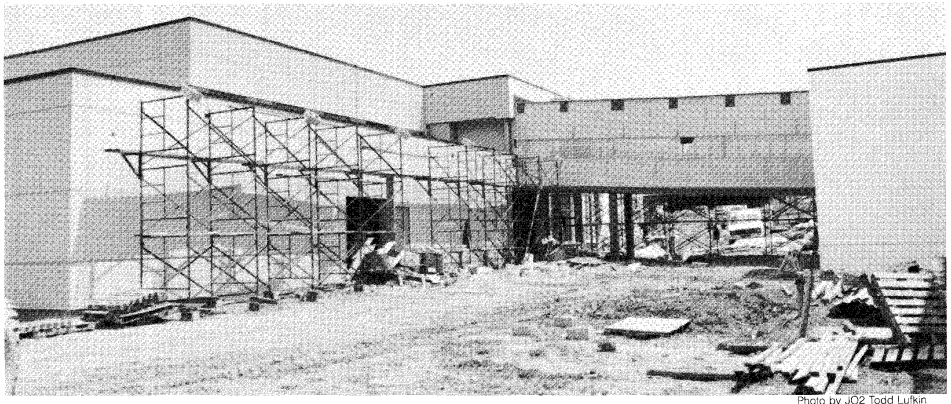


Photo by JO2 Todd Lufkin

TACAMO/GPS LAB NEARS COMPLETION—Nearly 90% complete, this new office and laboratory should be in 'move-in' condition by early July 1987. The facility connects Bldg. 2 and Bldg. 125.

Technology Transfer

(continued from page 3)

of R & D, the fabric has become the standard for tri-service flight suits. It is also used across the country for fire fighters, policemen, and in industrial clothing.

The Nuclear Magnetic Resonator (NMR), now called The Magnetic Resonance Imager (MRI), is used in major hospitals across the country. It is designed to detect and differentiate between malignent and non-malignent tumors. NADC participated in the early research that led to its first commercial application. The MRI is replacing the CATSCAN in many hospitals and represents a major contribution in the bio-medical field.

"One of our more recent technology transfers," Bortman said, "is in the area of corrosion protection coatings—a whole series of coatings from AMALGUARD through water-displacing paints."

NADC was one of the first Navy labs to initate a Technology Transfer effort about 10 years ago. "Now," Bortman continued, "the President, through an Executive Order, and Congress, through their Technology Transfer Act, are saying to deal with Technology Transfer as a national issue."

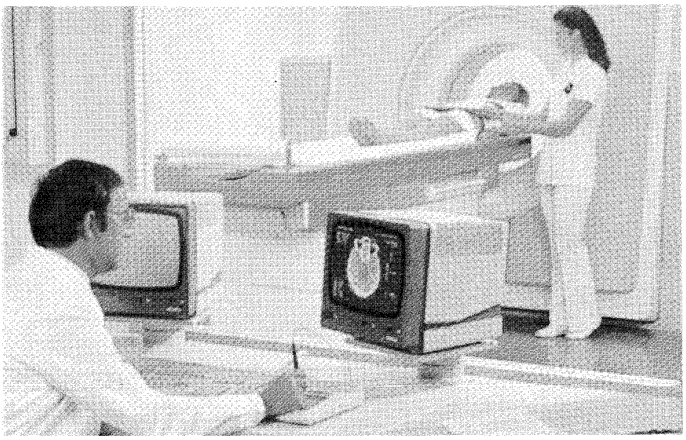


Photo provided by SIEMANS Medical Systems Inc.

Magnetic Resonance Imaging Equipment

Hansen and Bortman agree the whole purpose of this thrust is to spur innovation and productivity in this country. Hopefully, it will help create jobs, improve the trade balance, and boost the economy.

"Here at the Center, I expect a dramatic increase in invention disclosures," said Hansen. "I strongly encourage employees with valid ideas to apply." Hansen believes many people have a tendency to downplay their inventions, but, he noted this may be the incentive needed to report them. Remember—even a new use for an old device could be patentable.

H. Hansen and J. Bortman can be reached on extensions 3000 and 2033, respectively.

Security Reminders

Material classified Secret must be entered in the Center's control system at the time of origination or receipt on the Center. Working papers must be dated when created, marked on each page with the highest classification of information they contain. When working papers are to be retained more than 90 days, filed permanently, or released outside the command all accounting, control and marking requirements prescribed for a finished document are mandatory. Refer to Paragraph 0807, NAVAIRDEVCENINST 5510.13C.

Promotions

Timothy Armstrong, Ross Barcklow, Brendan Beary, Robin Benz, Desiree Beverly, Eugenia Boyes, William Brown, Angel Carreras, Kevin Casey, Albert Cavalieri, Joseph Cleghorn, Nicholas Conti, R. Bradley Cope, Pamela Craigie, Micaela DiPasquo, Tho Do, Jorge Dominiquez, Mary Donnellan, Carol Eberz, James Eck, John Floyd, Timothy Foley, Gregory Folts, Michael Goldberg, Sandra Grazioso, Kenneth Green, Leslie Greenbaum, Holly Hake, Inger Hansen, Robert Hayes, Bruce Heath, Elizabeth House, Brigette James, Jeffrey Jones, Kenneth Kelly, Sang Kim, Keith King, James Koch, John Kowalski, Michael Kramer, Richard Kulp, Lorraine Lasorsa, Clara Leeds, Walter Leyland, Robert Love, Robert Mack, Tony Madison, Cheryl McGowen, Chris Miller, Christopher Miller, Joseph Minnucci, James Moore, Lynda Newman, David Nguyen, Nancy Nissley, John Phillips, David Rose, Kevin Ryan, Richard Sames, Catherine Schoenherr, Dennis Shinn, Harvey Sokoloff, Kevin Stayer, Curtis Swatchick, Harry Tyndall, Michael Valdivieso, Judith Walker, George Weller, William Williams.

Hopper to visit NADC

(continued from page 4)

Also in 1984, she received Honorary Degrees from University of Maryland, College Park; Smith College, Northampton, Massachusetts; Saint Peters College, Jersey City, New Jersey; Worcester State College, Worcester, Massachusetts; Hartwicke College, Oneonta, New York; Providence College, Providence, Rhode Island; City College of Morris, New Jersey; and Bloomsburg College, Bloomsburg, Pennsylvania. In 1985 she received Honorary Degrees from Aurora College, Aurora, Ohio; Western New England College; Springfield, Massachusetts; College of William and Mary, Williamsburg, Virginia; River College, Nashua, New Hampshire; Marist College, Poughkeepsie, New York; Saint John Fisher College, Rochester, New York.

She is a fellow of the Institute of Electrical and Electronics Engineers, a member of the Association for Computing Machinery, the Data Processing Management Association, the Armed Forces Communications and Electronics Association, a Fellow of the American Association for the Advancement of Science and a member of the Franklin Institute, the U.S. Naval Institute, and the International Oceanographic Foundation.

She maintained her close connection with the Naval Reserve and was eventually promoted to Commander. At the end of 1966, she was retired with the rank of Commander in the Retired Reserve. She was recalled to active duty on August 1, 1967. On August 2, 1973, she was promoted to the rank of Captain on the retired list of the Naval Reserve. On November 8, 1983, she was promoted to the rank of Commodore with the title of that grade changed to Rear Admiral on November 8, 1985. She served on active duty, with the Naval Data Automation Command as NAVDAC–OOH until September 1, 1986 when her name was returned to the retired list.

All are invited to hear the Admiral speak in Hangar Bay 3, Bldg. 4 at 1300 on July 8th (supervisory permission required to attend). If you can't come in person, the event will be broadcast on close circuit TV monitors throughout the Center.

ANNOUNCEMENT

The Commander
Naval Air Development Center
Change of Command Ceremony
Captain Edward John Sturm, United States Navy
will be relieved by
Captain Curtis John Winters, United States Navy
on Friday the seventeenth of July
nineteen hundred and eighty seven
at half past one o'clock
Naval Air Development Center
Warminster, Pennsylvania

Integrity Alert

by Ron Kabin

Use of Government Quarters

Center personnel going on travel are reminded that when government quarters are available but not used, the payment of the quarters' portion of the per diem or actual expense allowances may not be made except when one of the following situations apply:

1. The order issuing authority issues a statement that the use of Government quarters will adversely affect the mission performance. This exception does not apply to employees attending training courses at a military installation.

2. The Commanding Officer responsible for the Government quarters furnishes a statement that the use of Government quarters is impractical.

3. The Center Commander has determined that the employee's duties will require official travel in excess of 50 percent of the total number of the employee's basic administrative work weeks during that fiscal year.

When government quarters are not available, the traveller is responsible for having a "nonavailability statement" added to their travel orders.

Remember, it is the responsibility of all Center personnel to ensure that our travel costs are kept to a minimum. If you are aware of travel abuse by Center personnel you may report it to the Center Hotline Recorder extension 3015, or to the Internal Review Office extension 3033.

CNO ADDRESSES SEXUAL HARRASSMENT

Sexual harrassment is a form of arbitrary discrimination which is unprofessional, unmilitary and unlawful, stated chief of naval operations ADM Carlisle A. H. Trost in a recent message.

In recent years, the issue of sexual harrassment in the workplace has received much attention. The Navy's policy clearly states that sexual harrassment will not be tolerated. Sexual harrassment awareness training is provided to all hands in the Navy.

"Our people are expected to observe the highest ethical standards to ensure proper performance of our mission and maintenance of the public trust," Trost said. "It is the responsibility of each of us, using the chain of command, to ensure that any instance of sexual harrassment is dealt with in a very diligent and expeditious manner."

Stay "Dry," Not High, On the Water

by Evelyn D. Harris
American Forces Information Service

Ah, sun, sea and suds—heaven! Unfortunately, if the one enjoying the suds is also piloting the boat, that statement could be literally true.

Last year, 1,116 people died in boating accidents. And more than half of these deaths, according to the U.S. Coast Guard, involved alcohol.

In addition to the lives lost, the Coast Guard said the accidents resulted in 25,000 injuries, and $420 million in property was lost or damaged.

Researchers have found that even sober boaters are subjected to "stressors"—noise, vibration, sun, glare and motion that can produce "boater's hypnosis." Boater's hypnosis can slow reaction time almost as much as if you were legally drunk. Adding alcohol to these factors only intensifies the effect.

Alcohol also intensifies the effect of caloric labyrinthitis, a fancy term for the disorientation caused by water entering the ear. A drunk person whose head is immersed can become confused and swim down to death instead of up to safety. This explains why some good swimmers who have been drinking drown for no apparent reason.

Those are all good reasons for not drinking and driving a boat. And here's one more—you risk a fine of up to $1,000, a criminal penalty of up to $5,000 and a year in prison.

Coast Guard statistics show that drowning accounts for 85 percent of boating fatalities. Most of those who drowned were not wearing life jackets or personal flotation devices.

According to the Coast Guard, most boating accidents and fatalities are preventable. Get the training you need to pilot your craft safely, and make sure everyone on your boat wears a Coast Guard-approved personal floatation device. For the location of a boating course near you in any state except Virginia, call 800-336-BOAT. In Virginia, call 800-245-BOAT. Overseas, contact your installation safety office.

Mother fathered Father's Day

by JO2 Todd Lufkin

It was Sunday, it was Mother's Day 1909, and Mrs. John Bruce Dodd was listening to a sermon in a Spokane, Washington church. But her thoughts were of her father William Jackson Smart, affectionately known as "Billy Buttons."

She was married now, had her own child, and had more appreciation for the courage it took for her father to face the tragic and early loss of her mother. He was suddenly faced with shouldering the full responsibility of raising his six children . . . five boys and a girl. The more Dodd thought about it, the more she became convinced that fathers, too, should have a day of recognition.

Throughout the following year she brought her plan up to others and it was well received. In the spring of 1910, she presented a petition to the Reverend Conrad Bluhm, President of the Spokane Ministerial Association, and asked that he suggest to his fellow members that they choose a Sunday in June (the month of her father's birth) to remind parishioners of the appreciation owed to fathers.

The local YMCA helped to sponsor the event and the ministers agreed to preach on this theme. The Mayor of Spokane issued the first Father's Day proclamation. Soon Washington's Governor, M. E. Hay, became interested and set the third Sunday in June for the state-wide observance.

In 1916, from his desk in the White House, President Woodrow Wilson pressed a button unfurling a flag in Spokane to begin the state observance. Eight years later, in 1924, President Calvin Coolidge recommended that Father's Day be observed in all the states, declaring that such an occasion would "establish more intimate relations between fathers and children, and to impress upon fathers the full measure of their obligation."

The red or white rose is recognized as the official Father's Day flower.

There are many valid claims as to the origins of Father's Day, this is just one.

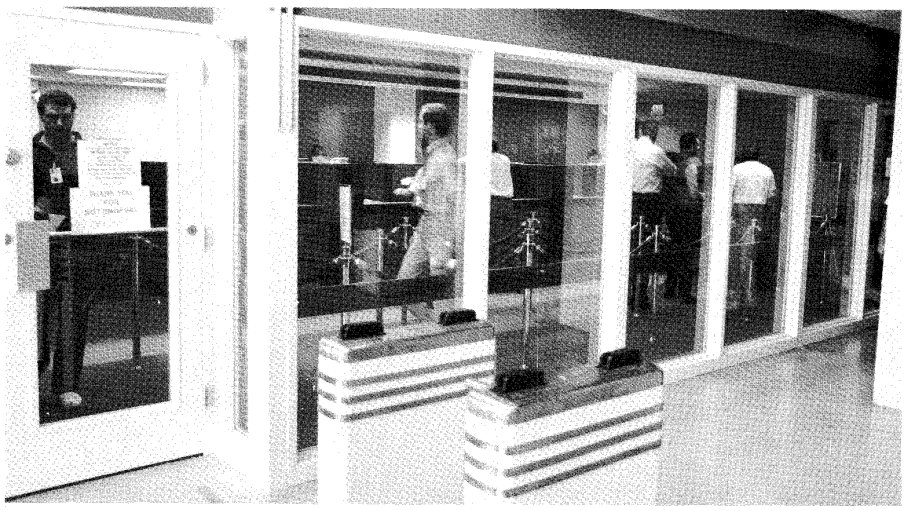


Photo by JO2 Todd Lufkin

FACE LIFT—The First Atlantic Federal Credit Union recently moved into its completely rennovated and refurbished office. The glass-enclosed space will no longer subject customers to blasts of air as they wait to conduct a transaction.

W&R Trip News

Saturday, August 22, 1987—Cape May Magic—Trolley car tour; Physick Estate Tour; free time at Cape May's outdoor mall; tour of the Abbey Mansion and Mainstay Inn. Enjoy relaxing lunch at the Winchester Inn. Bus will depart NADC main parking lot at 8 A.M. and return at 5:30 P.M. Cost $43.

5 Days/4 Nights—October 29—November 2, 1987. Tour includes round trip air transportation, hotel accommodations, 2 breakfasts, transfers from Orlando International Airport, free shuttle to Walt Disney World, EPCOT, Pleasure Island, and Lake Buena Vista Shopping Center, Applicable taxes and gratuities. Limited number of spaces available. Cost per person $349. dbl, $329. triple $319. quad.

Call Margaret Vigelis, at ext. 3067, for information and reservations.

Loyal to the CORPS

(continued from page 1)

same time that the request is being reviewed.

The implementation of CORPS would not have been possible without major contributions by the Computer Department. Bob Finkelman, head of the Computer Department, provided the programming support and integrated CORPS into the CIS menu system. Finkelman is the alternate ADP Official in Feinberg's absence.

For those of you who may have become accustomed to or comfortable with the old manual system—forget it! Effective 27 April, CORPS became *the* system for all the acquisition of computer hardware, software or professional services—from a $50 software package to a $50,000 piece of hardware.

In order to become accustomed to the new system, you are free to practice with it. Anyone with Center Computer System access and menu can call up CORPS. You can generate a variety of test summaries with no repercussions. A summary does not become active unless and until you attach it to a PR and send it through the approval chain. The CORPS is looking for a few good ADP requests.

☆ U.S. GOVERNMENT PRINTING OFFICE 1987—704-057/40011