J. BARTON 3021

NADC Reflector

Volume 30 Number 5 NAVAL AIR DEVELOPMENT CENTER, WARMINSTER, PA. May 1985

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Navy Superior Service Award for Stuebing

Hank Stuebing was honored recently with one of the Navy's highest civilian awards. On April 10, 1985, the Navy Superior Civilian Service Award was presented to him in recognition of his outstanding technical contributions while serving as division manager and software consultant for the Software and Computer directorate.

"I felt very good — proud, grateful, and humble all mixed together," said Stuebing. "After 27 years at the Center, I have never received anything of this magnitude. My trophy case has plenty of room in it for this honor."

Stuebing has been very closely involved in the design and production of time critical, complex software systems for airborne tactical use. The Center is so involved with these systems that age old methods of software development needed radical change in order to produce a predictable, timely, cost-efficient system. The Facility for Automated Software Production (FASP) evolved from Stuebing's efforts. Today this stands as the only significant integrated software development environment within the Navy R&D community. Through the use of FASP and under his leadership a consistent controlled approach to software development has been adopted by numerous Center and other Department of Defense projects.

"By proving that this concept was a good way to develop software for the mission critical systems," explained Stuebing, "similar systems of more advanced types are being built both within the government and industry."

In excess of 100 projects and companies have used FASP. Fifty-nine projects encompassing 687 individual computer accounts are presently using the system. More than 20 million source lines of computer code are resident on the system. In addition the system has been in around-the-clock operation since 1975 with over one million jobs processed to date.

Dave Schimsky, director of the Software and Computer Directorate said, "Hank Stuebing was among the first in the Navy to recognize the need for better, more controllable ways to develop software, especially the complex weapon system software used by the military. He set about devising means by which this software could be developed on commercially available computers, with capable, user-friendly operating systems, instead of the more restrictive and slower military computers which were used until then."

In conclusion Schimsky explained, "Because of Hank Stuebing's foresight and knowledge, the government has been the beneficiary of sound, advanced techniques in a highly complex and visible area. Dollar savings are incalculable and may not even be the most significant aspect of his achievement: the quality and timeliness of the products delivered to the fleet are the real payoffs."

Hank Stuebing receives award from CAPT Edward Sturm.

"It is clear," said Stuebing, "that software will be a dominant item in defense systems for a long time to come; so my goals are to find the most cost-effective ways to create the software while continuing to improve the quality. There will always be the need for these new methods," he said, "whether it is automation or new techniques of design. I am interested in any and all things that affect this."

Stuebing is a graduate of Ursinus College where he received his Bachelor of Science in both Physics and Math. Subsequently he received his Masters in Computer Engineering from the University of Pennsylvania where he has also done additional graduate work in Physics. Stuebing is chairman of a Joint Service Team designing the next generation of Software Engineering Environments. He is also the national coordinator on a NATO report of the same subject.

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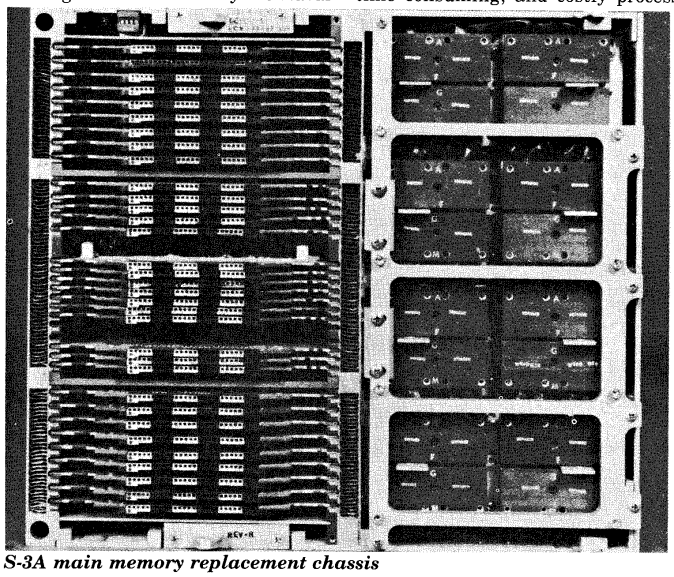
Memory technology advances

The U.S. Navy has encountered reliability problems with the AN/AYK-10B(V) General Purpose Digital Computer (GPDC) which is the mission computer employed in the S-3 carrier-based ASW aircraft. Investigations conducted by the Naval Air Development Center and Sperry Defense Systems, St. Paul, MN, have revealed that a main source of failures, which occur in the plated wire memory module, is caused by corrosion. Repair of the plated wire memory is a complex, time consuming, and costly process.



S-3A main memory replacement chassis

This combined with the high failure rate, has created a serious availability problem for the S-3 with a resultant impact on fleet operations. In addition the original manufacturer, Sperry Defense Systems has discontinued manufacturing of the memory module. This combined with the repair problems indicates that eventually the S-3 will be without computer memory.

As a result of studies of alternative solutions to the problem, the U.S. Navy has established a memory improvement program. In essence, this program involves the development of an entirely new memory consisting of a random access complementary metal oxide Semiconductor Module (SCM). The new module will provide the advantages of four times the memory capacity (from 32K to 131K 32-bit words) and decreased size, in addition to providing improved reliability. The development of the SCM began in 1983 and a U.S. Navy contract to Sperry Defense Systems, St. Paul, MN was awarded for the design and fabrication of two Advanced Development Models (ADMs).

Studies conducted by the Canadian Aurora Software Development Unit (ASDU) concluded that the same memory computer exists within the AN/AYK-502 General Purpose Digital Computer and that they are faced with the same repair/discontinuation problems. A cooperative effort between the United States and Canada has worked out to the benefit of both countries. The United States would pay for the research and development of the new memory improvement program and the Canadian government would be responsible for the full scale production of the system with the United States taking advantage of their contract.

Current program planning is for the Canadian Department of National Defense to contract with Sperry Defense Systems, Canada for the design, fabrication and in-plant testing of Service Test Models during the Full-Scale Engineering Development phase. The U.S. Navy will participate in this phase by providing one SCM-ADM and technical information under the Information Exchange Program that exists between our two countries.

Command Corner

CAPT Edward J. Sturm
Center Commander

Mr. Robert S. Buffum
Technical Director

The winds of change are blowing strong in Washington. As you no doubt know, the Secretary of the Navy has disestablished the Naval Material Command Headquarters. This disestablishment is precipitating changes, many of which will impact our Center and the other Naval Material Command Laboratories.

Two of the more significant changes were primary discussion subjects at the recent CO/TD meeting.

The laboratory community, including the Office of the Director of Navy Laboratories, will report to the Chief of Naval Research who in turn will report to the Assistant Secretary of the Navy (RE&S). The System Command (SYSCOM) Commanders will report to the Chief of Naval Operations. This new reporting arrangement moves us organizationally farther away from the SYSCOMS, our primary workload sponsors, which is a matter we must be sensitive to. While in the past SYSCOM sponsor, because of NAVMAT organizational ties, would naturally look to the laboratories for his support, that tendency will be diminished. It behooves us to be aware of this new reality and renew our efforts to be responsive to the needs of our SYSCOM sponsors.

The second significant change relates to the way that the 6.2 technology work will be managed and funded. This type of work, some $50M per year for NADC, is the life blood of a Navy Laboratory and is what distinguishes Navy Laboratories from other types of Navy Shore Activities. In a move that is seen as a positive change from the Navy Laboratories' perspective, the decision has been made to fund the 6.2 program direct from the Office of Naval Technology, one of three offices under the Chief of Naval Research, to the cognizant laboratory. Commensurate with the direct funding path, the authority and responsibility to plan and execute the 6.2 program is being firmly placed in the hands of the cognizant laboratory Technical Director. The challenge of the laboratories will be to keep the technology programs relevant to the needs of the technology customer, the SYSCOMS. The mechanisms to ensure this relevancy are still being designed.

You can rest assured that Center top management is very much attuned to these external changes and, as managers of internal change, is working hard to identify and implement those changes that will be necessary to keep the Center in a position to effectively perform its mission.

CAPT EDWARD J. STURM
Center Commander

ROBERT S. BUFFUM
Technical Director

Navy reorganization

In a major change to the Navy's acquisition management structure, the Secretary of the Navy and Chief of Naval Operations announced on 9 April 1985 the disestablishment of the Naval Material Command (NAVMAT).

This action was to decentralize acquisition management in the Navy, thus streamlining the decision making process. The principal features of the new organization include:

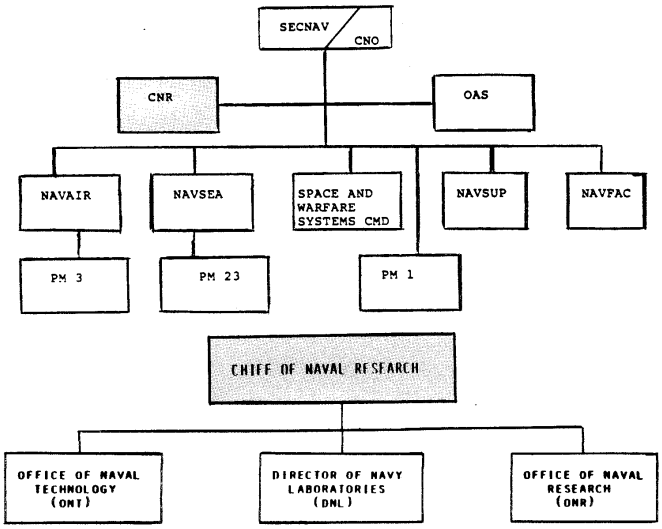
• Elimination of the CNM four star billet and the NAVMAT Headquarters Systems Commands report directly to CNO for mission execution and to SECNAV for policy matters.

• A new Space and Warfare Systems Command will replace NAVELEX and assume responsibility for space warfare and integration of command and warfare systems across the entire battle group.

• The Chief of Naval Research (CNR) will provide for and manage R&D Centers and laboratories through the Office of Navy Laboratories. The personnel currently in MAT-05 are being transferred to CNR and will form that office headed by Mr. Gary Morton, Director of Navy Laboratories.

• The Office of Naval Acquisition Support (ONAS) will be formed from the residual elements of the NAVMAT Headquarters Command.

• PM-1 will be stand-alone command. PM-3 and PM-23 will report to COMNAVAIR and COMNAVSEA respectively. These changes have been directed effective 6 May and result in the Wiring Diagrams shown below.



OOPS!

PRINTERS ERROR

In the April issue of the REFLECTOR, on page 4, the top right photo was inverted. This time the names match the photo — Greenies Golf Team kneeling left to right: George Gebert, Bill Achuff (Captain), and Chuck More. Standing left to right: Dick James, Cliff Tierney, Fred DeLarso, Ed Hughes, Tom Gledhill, John Beckum.

Letter to the Editor

Dear Editor,

In lieu of all the negative publicity NAVAIRDEVCEN is receiving, is the Center doing anything to redefine its goals and objectives, how it does business, its responsiveness to sponsors, high overhead rates, etc. Perhaps it is time to reassess ourselves and the direction in which we are going.

TED KOPP
VP Project Engineer

Dear Mr. Kopp:

The negative publicity revolves around the potential of base closure. This discussion itself generated significant positive action and publicity by elected representatives and the media. Township officials, area businessmen, and local newspapers have come together on behalf of the Center.

The Assistant Secretary of the Navy in a letter to Congressman Peter Kostmayer reaffirmed NADC's importance and assured him there is no plan of action to close NADC Warminster.

This situation has no bearing on our goals and objectives, however, as an on-going process concerning NADC's future, top management has spent considerable time in the last year defining the near-term and long-term goals for NADC. Recall in the October 1984 issue of the Reflector, six major goals were identified as a guideline for this planning. They have been expanded and will form the basis for the Strategic Planning effort currently underway. The Center Commander, Technical Director, and Center Management Group are meeting twice weekly in order to accomplish this process rapidly. As soon as the results of this planning are available they will be published in the Reflector.

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Big sisters/brothers turn apathy to empathy

You've encountered APATHETIC people, right? . . . going their apathetic ways, living their apathetic lives. This lack of concern is, in itself, the root of their's and many other people's problems.

Fortunately, Big Brothers and Big Sisters of Bucks County are in the business of turning APATHY into EMPATHY: *E*veryone *M*otivated to *P*ositive *A*ttitudes *T*oward *H*elping *Y*outh!

Big Sisters of Bucks County currently has 50 girls paired with Big Sisters and their number is growing. From 8 to 18, these girls face emotional problems and insecurities that exist from lack of a female role model. Big Sisters representatives act as case workers to match girls and Big Sisters. The Big Sister meets with her caseworker once a week for the first four to six weeks. Caseworkers meet with the girl and her family at the end of the first month and then once every three months.

Big Brothers of Bucks County has teamed about 75 boys with Big Brothers, but there is an equal number of boys on the waiting list. Big Brothers ask volunteers for a commitment of at least one year because losing a Big Brother after a short time can be interpreted by a youngster as one more rejection by an adult and these fatherless boys do not need any more rejection in their lives. Most men's commitments continue long after that; it grows into a long-lasting friendship.

All that is required for Big Brothers and Sisters is a couple of hours of your time each week to give to a boy or girl. No special talent is needed except listening, understanding and caring.

Men and boys, women and girls are matched by interests, personality, age and proximity to each others home. Judy Reademan, Big Brothers area coordinator said, "When we make a match we try to match a big and little within a six mile radius so the big brother can see his little brother with ease." Both Big Brothers and Big Sisters provides counselling, periodic meetings and group activities.

Two Big Brothers are NADC employees. Nick Tavani in SATD got started by taking over LCDR Seckinger's little brother when he was transferred to Washington. Tavani enjoys his little brother Alex, who he has been seeing for a year now. Sometimes when he visits he spends time with Tavani's own sons who are close in age to ten-year old Alex. They do ordinary things like playing computer games, playing catch, eating at fast food places, and working on Cub Scout badges. Cecilia DeMuro, area coordinator for Upper Bucks County Big Brothers feels Tavani's welcoming Alex into his family life is very beneficial because it gives Alex the opportunity to grow and learn about family life in a family atmosphere. Tavani also gives him that important time alone that makes Alex feel special. "Alex and my boys are good playmates. Alex in particular has a great personality with a good sense of humor and I enjoy the time that I spend with him," said Tavani.

Wayne Shuey of the Aircraft Department is also a Big Brother to 13 year old David. Their relationship is just a couple months old. "I got into Big Brothers because I like to work with kids. I've coached softball, soccer and baseball." Shuey feels this experience will help him years from now to understand his own son (only 13 months old) better. Shuey explained that David's mother has done a wonderful job with him and that he is very well-disciplined. He said that she is trying to teach him about responsibility and Shuey feels he is a good example of this because of his commitment to the Navy. Because of his work, he has even had to cancel a couple of meetings with David, but rescheduled them later. Pete Weaver, director of Bucks County Big Brothers said, "Mothers are very cooperative and try to accommodate Big Brothers schedules."

What's in it for the Big Brother or Sister? A chance to care and to feel good about giving a little of themselves to a child who needs them. It is an opportunity to help boys and girls help themselves toward responsible manhood and womanhood, careers and family life. Marcia Shaffer, Regional Liaison of Big Sisters for Central and Upper Bucks County, commenting on a recent Big Sisters meeting, said, "Big Sisters say things like, 'it makes me feel younger,' 'I feel more useful,' and 'sometimes I can read her mind and other times she knocks my socks off.' A lot of the volunteers say they get more out of it than the children."

A popular Big Brothers slogan once said, "You never stand so tall as when you bend down to help a child." Maybe you can stand that tall. Representatives from Big Brothers and Big Sisters will visit the Center on Wednesday, May 29th from 1100 to 1330 in the auditorium. They will have information and slide presentations and can answer any questions about their programs. Additional information can be obtained by contacting the PAO on extension 2290.

Photo by Regina Gasuk

Left to right: Cecilia DeMuro (Area Coordinator for Upper Bucks County Big Brothers), Nick Tavani (Sensors and Avionics Technology Directorate), Wayne Shuey (Aircraft Department), Judy Reademan (Big Brothers Area Coordinator).

Photo by Regina Gasuk

Center hosts NSIA conference

Over 100 government and industry representatives attended the National Security Industrial Association, Aircraft, Detection and Classification Subcommittee meeting held at NADC on 8 and 9 May 1985. Peter Santi of the Sensors and Avionics Technology Directorate coordinated the many technical presentations that took place during the conference. Subjects such as Surveillance Sonobuoys, Horizontal Line Array, Arctic ASW, Broadband Sea Test, ASW Radar, P/3C UIII Enhancements and Man-Machine Information Transfer were addressed.

On the second day the group visited several laboratories such as In-buoy Processing, Acoustic Data Fusion, Vertical Flight and P-3.

The Center has hosted this meeting for more than ten years.

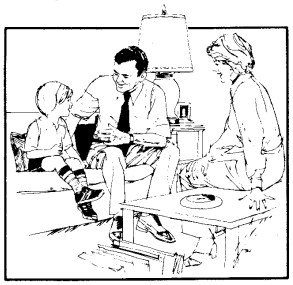
Children home alone

Helpful ideas for parents

If a school-age child is properly prepared, staying home alone for a reasonable amount of time can present an opportunity to gain in maturity. But whether you plan to leave your school-age child home alone occasionally while you run an errand or on a regular basis, he or she will be safer and happier with a little preparation.

Not all children are mature enough to be left alone even for short periods of time. "Spaces are available in school-age programs in all of the services for all parents who need them," says Bonnie Hicok of the Army's Office of Child Development Services. But if your child has the maturity, here are some tips to make his or her time alone more pleasant and safe:

- Tell your child to keep his or her key hidden—no use advertising the fact that the child will be alone. Leave an extra key with a dependable neighbor.
- Tell your child to say, "My mother (or father) can't come to the phone right now," when answering the phone. As for the door, police recommend that a child alone look through a peephole and say through the door to a stranger, "My father (mother) is busy right now." Some burglars are more likely to come in if they think no one is home. Be sure you have a good deadbolt.
- Assign some reasonable duties for the child to perform while at home. Older children can start dinner. Let the child know which friends can visit while you are
- Have a plan for emergencies. Provide the child with a flashlight and fresh batteries. Put a first-aid kit in a convenient place, and teach your child how to use it. Plan and practice a fire escape route.
- Post phone numbers near the telephone for the doctor, police department, poison center and your place of work—plus that of a trusted friend or relative. Be sure your children know their home address by heart.



CNR greets AFCEA

Admiral J. B. Mooney, Jr., Chief of Naval Research was the guest speaker on 9 May 1985 at the Armed Forces Communications and Electronics Association (AFCEA) luncheon meeting held at the Center. Captain Fred Wright, Chief Staff Officer (right) greets RADM Mooney (left). Robert Buffum, Technical Director (center) and Captain Edward Sturm, Center Commander (not shown) escort RADM Mooney.

Keane named senior executive

By Betty Anne Mauger

"I have fun making a difference" is the secret of success which has helped advance the career of John J. Keane, a 22-year veteran of NADC. Pending final SES approval by OPM, Keane was recently selected as the Director for Submarine and ASW Programs, Office of the Assistant Secretary of the Navy for Research, Engineering and Systems.

Keane cites the experience he gained on Center as a project leader on the VLAD sonobuoy development team as being partially responsible for his achievements. During that assignment, he broadened his technical background with the development of managerial skills in such areas as contract procurement and budget profiles. Keane furthered his career enhancement with a temporary NSTEP assignment as the Air ASW Assistant to the Air ASW Acoustic Systems Program Manager in NAVAIR. It was here that he gained visibility in the Washington arena and valuable insight into the political processes behind systems acquisition. "I was able to mature, gain contacts," Keane commented, "and the experience made me more appreciative of the program manager's side of the story."

Since July 1984, Keane has been on another temporary assignment, this time to OASN (RE&S), and was responsible for furnishing an AIR influence on the Low Cost Sonobuoy Program. He noted that his technical background was singularly instrumental in his efforts on that program. He observed, "I was amazed at how many policy meetings I attended that were devoid of key, technical people. I was able to draw on my technical experience, during those opportunities, to significantly influence decisions. I enjoyed being that cross-point of information."

In recognition of technical contributions made while he was the senior technical specialist in the Sensors and Avionics Technology Directorate, Keane was recently honored with the Navy Superior Civilian Award.

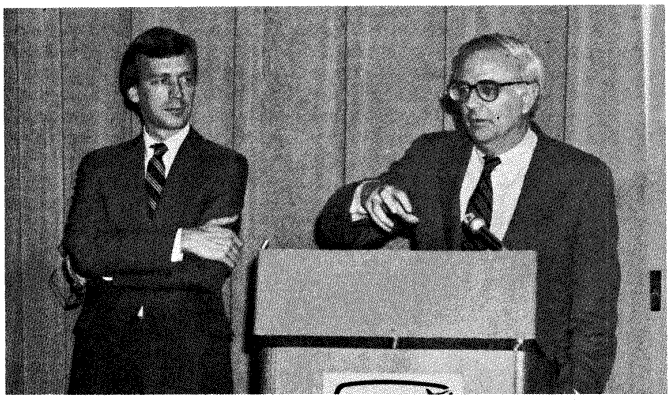


Photo by Cathy Burian

Congressmen concerned

Eighth District Congressman Peter Kostmayer (left) and Wisconsin Congressman Les Aspin, House Armed Services Committee Chairman visited NADC on 19 April. After a tour of the Center, they addressed local township officials, TV and press media, and Center personnel on the potential closure of NADC.

Navy relief springs into action

By James Tidwell

Springtime at NADC brings warmer days, thoughts of picnics, baseball games, vacations, and the annual Navy Relief Fund Raising Campaign. To the many military and civilian employees at the Center Navy Relief means the many traditional events that surround the annual drive. But to many Navy and Marine Corps personnel it means much more. It represents emergency help in times of unanticipated financial crises, assistance recovering from natural disasters, visiting nurses and medical care programs for housebound wives and widows, and many other worthy endeavors.

The annual drive for funds for Navy Relief is held each year during the period from 4 May through 6 June to commemorate the Battles of the Coral Sea and Midway which occurred on those dates. During this time all Navy and Marine personnel, and their civilian friends and supporters are asked to contribute to the Society so it can continue to provide assistance when needs arise.

Founded in Philadelphia

Interestingly, the Navy Relief Society was founded in the Philadelphia area by a physician, Dr. William White. Prior to 1903, it was a tradition aboard ship to pass a hat around the wardroom table to obtain funds to assist in caring for widows and children of Navy personnel. Dr. White suggested that instead of "passing the hat" the entire receipts of that year's Army-Navy football game be made available for the relief of widows and orphans of both the Army and Navy. The idea was accepted and the proceeds, amounting to $18,000, were divided equally between the two services. The Navy lost the football game (40 to 51), but instituted one of its most worthwhile organizations when the Navy Relief Society was incorporated two months later in January 1904. During the first year, seven auxiliaries were established. By 1924, branches were located at twenty-four major Naval stations and Marine Corps bases. Today there are over 125 Navy Relief Offices ashore and afloat around the world, with over 3,000 full and part-time volunteers manning the offices.

Local area sailors and marines are provided assistance through the NAS Willow Grove Branch Office of the Navy Relief Society. Last year 176 loans totaling over $57,000 and 15 grants of about $4,000 were made from the local office.

Strong NADC support

This year's raffle grand prize is a vacation for two to Hawaii with a stopover in San Francisco. The second prize is a trip to Disney World in Florida. In addition to the raffle, events will include a dunking booth, pool and golf tournaments, sandwich and other food sales, a "jogathon" and much more.

The Naval Air Development Center has traditionally provided strong support of the Society's annual drive. This year is no exception. Center Commander, Captain Sturm, has expressed his full support of the drive and encourages all Directorates to be enthusiastic and active participants in the campaign. Commander Mumford will be this year's Campaign Chairman.

Watch for further announcements of prizes and events in the *Plan of the Day* and *The Log*.

Parry merits medal

On 16 April 1985, CDR David J. Parry, previous S-3 Program Director, joined the ranks of those officers who have been awarded the Meritorious Service Medal.

Parry was ordered to NADC in July 1983 and retired from active duty in April 1985 with 26 years of Naval service.

As S-3 Program Director, Parry was responsible for this $20 million major command-level program supporting the current S-3A weapon system and development of the follow-on S-3B configuration. His successes in this area merited the award.

During a ceremony in the Center Commander's office, Parry was read a citation signed by ADM James D. Watkins, Chief of Naval Operations for the President of the United States:

"For outstanding meritorious service as S-3 Program Director . . . from July 1983 through March 1985. CDR Parry's superb performance during this period was highly instrumental in providing Carrier-Based Fixed Wing ASW with an improved capability through his efforts to develop the improved Communications Control Group and the improved system computer memory . . . The exceptional leadership, professional knowledge, and management ability which CDR Parry displayed were recognized and widely respected throughout the NADC, the NAVAIRSYSCOM, and the operational Carrier-Based ASW Forces. (MAB)

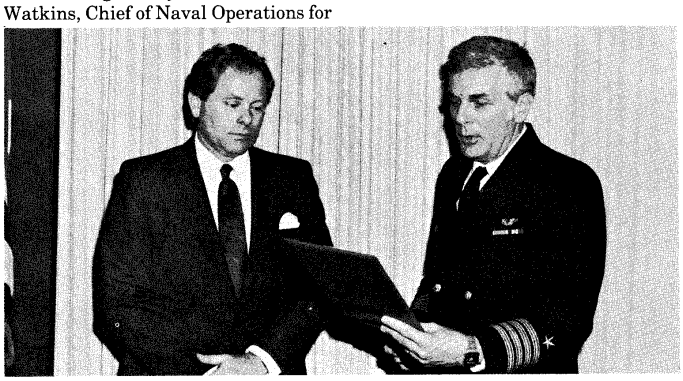


Photo by Cathy Burian

David Parry receives medal from Center Commander.

Three honored as Meritorious Civilians

On 10 April, Dominic Ottaviano, Michael Hess, and Gregory Catrambone each received the Meritorious Civilian Service Award. These awards were selected and presented by Center Commander CAPT Edward J. Sturm and earlier this year presented to John Wrigley (Code 40A) and Joseph Spodaryk (Code 02).

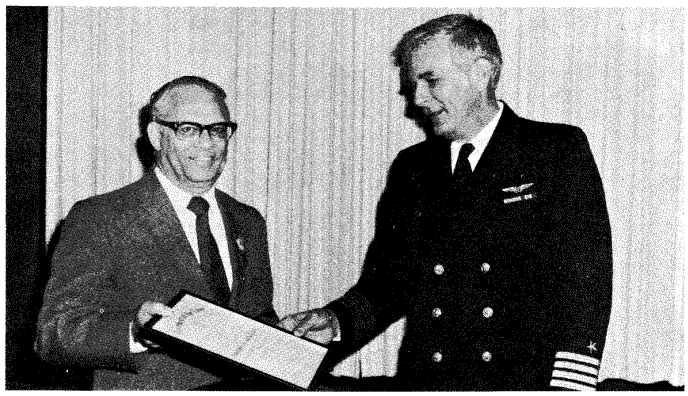


Photo by Chuck Fichera

Dominic Ottaviano receives his award from CAPT Edward Sturm.

Dominic Ottaviano

Ottaviano is the Deputy Division Superintendent of the AeroAnalysis Division in the Aircraft and Crew Systems Technology Directorate. He was selected for the award "... in recognition of his technical accomplishments, managerial skills, and administrative capabilities."

Photo by Chuck Fichera

Michael Hess receives his award . . .

Ottaviano's technical work has been principally in aerial targets and has resulted in the development of systems such as the BQM.34E Supersonic Firebee and the MQM-74A Aerial Target. These systems are utilized for anti-air weapons testing, evaluation and fleet training and have had significant impact on fleet readiness.

A 32-year NADC employee, Ottaviano has the distinction of receiving the Project Leadership award in 1982 for his work on the Aerial Target Program.

Michael Hess

Hess, an electrical engineer in the Electro-Optics Development Division of the Sensors and Avionics Technology Directorate (SATD) has his Masters degree from Stanford University. He serves as the senior technical specialist in SATD and was selected for the award because of his outstanding technical contributions in airborne infrared systems and sensor technology since 1980.

The citation on his award credited him for initiating and executing major technology programs critical to the development of advanced airborne reconnaissance and surveillance systems. It said, "Your contributions have set the direction for the next decade of research and development in naval airborne infrared equipment."

Hess said, "This award means more to me than the others. It's the first public, technical acclaim I've received."

Gregory Catrambone

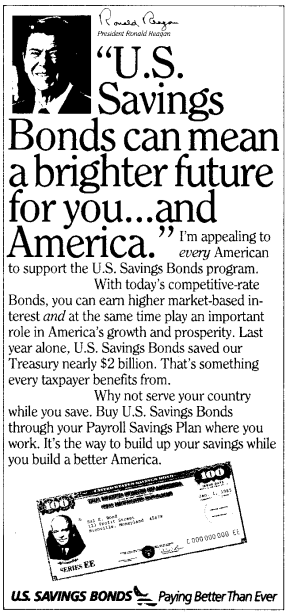
Catrambone, an electronic engineer in the Microwave Technology Division of the Sensors and Avionics Technology Directorate, was nominated for this award because of "... superior and oustanding technical and programmatic contributions while providing extensive, accurate, and timely technical support and consultation in a wide range of radar and avionic technologies."

Catrambone has prime technical responsibility for the A-6F radar program. He personally defined the detail requirements of the radar system including all modes and characteristics, and personally prepared the most demanding portions of the radar specification. He also technically led the Navy's technical evaluation of radar proposals and briefed his results up through the Assistant Secretary of the Navy levels. (MAB)

Photo by Chuck Fichera

. . . and Gregory Catrambone receives his award.

Savings bonds — safe, secure, affordable



The Secretary of the Navy released a message in April 1985 addressing the 1985 U.S. Savings Bond Campaign. It explained that for more than 40 years, U.S. Savings Bonds have provided one of the safest and most secure means of saving. Bonds offer an even better deal today. Instead of a fixed rate of interest, bonds now offer a market-based variable interest rate. While there is no ceiling on how much bonds may earn, there is a built-in guaranteed minimum return to protect bond holders and buyers from a sharp drop in market rates. This new interest formula, plus the continued tax advantages, make savings bonds a favorite savings instrument for millions of Americans. The present interest rate is 10.94%.

Savings Bonds are available in affordable increments starting at $3.75 per payday for civilians and $6.25 per month for military. While there are larger increments, it is not so much the amount that is saved, but the systematic savings that builds personal security.

Secretary of Defense Weinberger was quoted in the same message as saying: "... One of the easiest, most dependable ways to save regularly is through our payroll savings plan for U.S. Savings Bonds. An amount you specify is automatically set aside from each paycheck toward the purchase of bonds. Money accumulates steadily providing a nest egg for future needs. Series EE bonds earn 85% of market rates when held at least five years, and there is no upper limit. Interest is exempt from state and local income taxes, and federal income tax can be deferred until bonds are cashed or reach maturity. EE bonds also offer a unique guarantee — a minimum return of 7.5%, no matter how low interest rates may drop, when the bonds are held at least five years.

"When the canvasser calls, carefully consider how bonds can help you achieve your savings goals; then sign up for the payroll savings plan or increase your present allotment. It is an easy convenient method of saving regularly that offers tax advantages and near market interest on small sums of money."

NADC's Savings Bond Campaign will be conducted during June. Edwin Sinnamon (Code 041), as in recent years, is the campaign chairman. A savings bond representative will be assigned to each Directorate/ Department for the duration of the campaign. Any questions may be directed to Sinnamon on extension 2164 or to the representatives who will be assigned at the kickoff meeting. (MAB)

Men's All-Stars shine in June

By Charlie Destra

The men's softball All-Star game is fast approaching (June 20) and the league is exploring ways to drum up interest in the annual affair.

Among the suggestions put forth by league commissioner Jim Kearney: a raffle to draw a prize for a lucky fan and the introduction of a Most Valuable Player (MVP) trophy to the game's top star.

"We need to have more spectator involvement in the All-Star game," Kearney said. Indeed, last season's game was an exciting one but poor attendance put a damper on the result.

Kearney is planning to have refreshments, snacks, and bar B-Q grills available for the fans' use. He also would like to shift the game from drab Sailor's field to the Inertial field, but lack of restroom facilities (at Inertial) hinders that idea.

Three representatives from each team make the All-Star game. Selections are usually voted upon by team members. Last year's game pitted Division I against Division II, but this season the league has only one division. Kearney got around the problem by randomly alotting numbers for each team so that odd-numbered teams will face even-numbered teams in the contest.

The "Odds" will feature the Ballbusters, Phantoms, 8th Inning, Agent Orange, Bearcats, Druids and Rebels. The "Evens" include the Granfalloon, Misfits, Guzzlers, Pacer, Renegades, Nightriders and Devils.

Hopefully, this year's game will have a strong turnout. But remember what Yogi Berra said concerning declining attendance at a major league ball park: "If people don't wanna come out to the park, nobody's gonna stop 'em."

Center's twilight golf league season begins

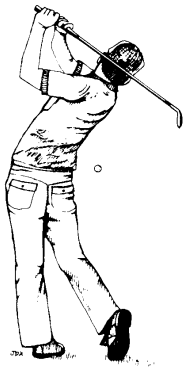
By Jim Bethke

The NADC Twilight Golf League's regular season began May 1st and will run through the summer. Golf League teams play on 3 courses: Bucks County Country Club, Northampton Country Club and Neshaminy Valley Golf Club.

The league consists of 19 teams with a total membership of 190 golfers, that are divided into two divisions. Golf matches are held on Wednesdays and they consist of individual and team competition each vying for match and metal play points.

At the end of the season the top five teams from each division compete in four weeks of playoffs which includes an 18 hole league championship match.

The year winds up with an all day/18 hole outing which includes lunch and dinner buffets and awards ceremony.



The NADC RECIPE REVIEW

Spinach Pies

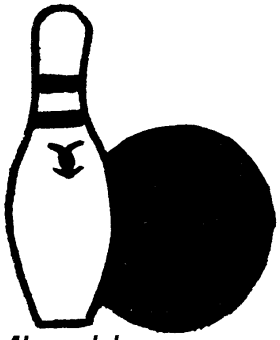
This month's recipe is provided by Juliana Danche, (Code 8456, x-1734) who will receive a **$50 Bond** from the Food Service Board. This recipe will also be served in the NADC Cafeteria. Submit your recipes to Mr. Jose Ferrer, Cafeteria Manager. One winner will be selected each month.

2 pkgs frozen spinach
2 pie shells
1 pt. sour cream
1 cup mushrooms
2 cups Sharp cheddar cheese
1 tsp. salt
4 eggs
1 large onion

Brown onion and mushrooms in butter or margarine. Cook spinach as directed and drain well. Mix egg, sour cream, salt and cheese together. Add onion and mushrooms and spinach and mix well. Fill pie shells, dot with butter and sprinkle with parmasean cheese. Bake at 350° for 1 hour.
Great for dinner with salad.

LOOK FOR THIS RECIPE TO BE SERVED IN THE NADC CAFETERIA

Cut here for file card



Mixed league season ends

By Tom Reiter

The Mixed League ended its' regular season with a three team tie in the A Division. The Screwballs broke the tie by coming from nowhere to win a special total pin rolloff by two (2) pins. Congratulations to Captain Pat Tease's Screwballs, Cathy Burian's Lucky Strikes and the first half winners — Bob Geyer's Alley Cats and Cliff Tierney's Raiders. Results of the four team championship rolloff will be published in the next issue along with individual award accomplishments. See you at the banquet.

NADC MIXED LEAGUE -B- DIVISION
SECOND HALF FINAL STANDINGS

TEAM NAME	WON	LOST	TOTAL PINS
LUCKY STRIKES	47.0	17.0	44888
RATED X	41.0	23.0	44661
BULLSHOOTERS	40.0	24.0	45000
FALCONS	37.0	27.0	45282
WHITE WINOES	35.0	29.0	42779
RED WINOES	32.0	32.0	45317
THE STRANGE BREW	31.0	33.0	44984
ALLEY CATS	30.0	34.0	45337
WHO CARES	30.0	34.0	44552
WARVEYHALLBANGERS	25.0	39.0	44579
DYNAMIC DUOS	25.0	39.0	43777
THE BALLBUSTERS	25.0	39.0	41322

NADC MIXED LEAGUE -A- DIVISION
SECOND HALF FINAL STANDINGS

TEAM NAME	WON	LOST	TOTAL PINS
RAIDERS	39.0	25.0	45746
NEINERS	39.0	25.0	45481
SCREWBALLS	39.0	25.0	44222
PINPOPPERS	38.0	26.0	45213
GOOFERS	36.0	28.0	45754
11TH FRAME	33.0	31.0	44432
BLIPS	31.0	33.0	44572
LES CHAMPIGNON	25.0	39.0	43855
RENEGADES	25.0	39.0	43852
ALLEY OOPS	24.0	40.0	43725
MAGIC MARKERS	22.0	42.0	44078
T N T	16.0	48.0	42819

POP - UPS

By Charlie Destra

At press time, the season was only two days old but early winners included the Guzzlers, Misfits, Devils and Bearcats .....

.....The Guzzlers edged the defending champion 8th Inning, 13-11, Jay Ward homered .....

..... The Misfits won 19-1 over the Phantoms thanks largely to Mickey Rudock's double, triple, homer and 5 RBIs. Pitcher Greg Heydet accomplished a rare feat, striking out the side on 9 pitches in the second inning .....

..... When I think of Heydet I think of Yogi Berra's 1963 comment regarding Sandy Koufax: "I can see how he won 25 games this year, what I can't understand is how he lost 5" .....

..... The Devils squeezed by Agent Orange, 5-3, paced by a George Reichl home run .

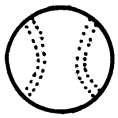
.....

The Bearcats crushed the Pacer, 17-0, on Adrian Hirbir's 2 home runs and 6 RBIs .....

.....The first league fine was assessed to Commissioner Kearney's Misfits for not having a team representative at a meeting. You can't say Kearney's partial to his team ...

.....

The commissioner expresses his appreciation for all the cooperation received from the league officials, with special thanks to John Markow and John Bowes.



W&R offers free food to donors

Your Welfare and Recreation Association is supporting our Blood Drive program. All government employees assigned to NADC who donate blood on 4 or 5 June 1985 will receive a certificate entitling them to receive FREE, the June special at the Anchorage. The special to be held on Tuesday, 11 June will consist of he Anchorage famous cheesesteak sub with all the trimmings.

VIEWPOINT

This month's question is: "What is your personal shape-up plan for summer?"

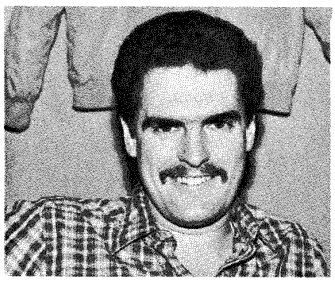
Photos by Regina Gasuk

Matt Berenato (Code 2022)

"I plan to do nothing to shape up for summer. I like the shape I'm in and I don't want to be loved for my body alone."

Barbara Ward (Code 0321)

"Besides maintaining my strict regime of nature's perfect foods (found at Dairy Queen and Dunkin Donuts), I visualize daily swimming, jogging, horsebackriding, bicycling, dancing, sailing, surfing, skydiving and preparing for a fall Hawaiian Triathelon, which, of course, I also visualize winning."



Ed Beach (Code 4031)

". . . play a little softball; swim in my father-in-law's pool; and drink less of that well-known summer refreshment."

Mary Moran (Code 701S)

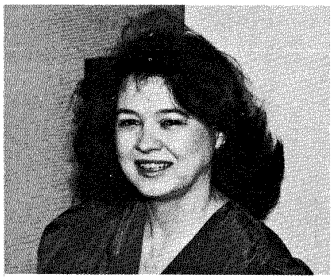
". . . get away from the children as often as possible."

Diane Erdman (Code 04S)

". . . give up chocolate and junk food which I adore and take a walk every night after a light dinner.

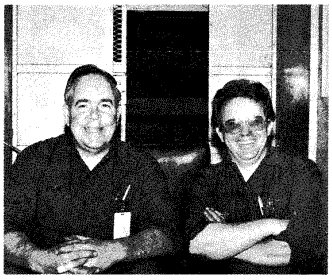
George Tomlinson (Code 7013)

". . . buy a jogging suit, sneakers, and a "walk-man" radio, but, not necessarily use them."



Barbara Kempf (Code 606E)

". . . keep my big mouth shut."



Don Shaw (Code 835)
Joe Maio (Code 835)

"I lost 40 and he gained 12; shaping up is hard to do."

Reenlistments

Photo by Chuck Fichera

Selected for Chief in 1984, ADC Donell Roberson reenlisted for four more years on 15 March 1985. Roberson joined the Navy in March 1969 and has been stationed at the Center since June 1982. Roberson is assigned as a Chief Aviation Machinist's Mate in the Maintenance Department.

The reenlistment was also a milestone for ENS Cheryl Valdivieso. This ceremony was the first she has performed. YN2 Holt (far left) and YN1 Moody (in back) provide encouragement.

Photo by Regina Gasuk

"We'll go to any 'depths' to reenlist good people," said CAPT Edward Sturm as he reenlisted ETC Larry Robinson on 3 May 1985.

Robinson chose the Cold Water Test Tank as the site for his somewhat extraordinary reenlistment by the Center Commander.

"These are my last four years," said Robinson, "and I'm making them (the Navy) pay for it." Ordered to NADC in December 1983, Robinson has had a 16-year Navy career thus far and is aiming for twenty.

Safe swimming suggestions for Og

By Mike Massington

It was a miserably hot day in Rockville, and Og, our profusely perspiring prehistoric protagonist, had just returned to his cave from his job on the Ptrerodactyl Modification Project at NADC (Neolithic Architectural Design Corporation). "It's hot, complained the clammy cro-magnon. "Brilliant deduction, bozo," snapped his sweltering spouse, Lilting Lava. As their stimulating dialogue continued with increasing volume, Og's gaze fell upon a nearby lake whose shimmering waters beckoned invitingly. Suddenly, the creative caveman had a capital idea. "I think I'll invent swimming," he exclaimed. "Wonderful," responded the somewhat less than enthusiastic Lilting, "What's swimming?" "Swimming," replied her mate, "is the intentional immersion and movement of the human body in a volume of water the temperature of which is lower than the temperature of the body and the temperature of the surrounding atmosphere, which when coupled with the natural movement of ambient air currents past the wetted epidermal surface decreases the apparent temperature of said surface thus rendering a pleasurable effect and increasing personal comfort." "Huh?" asked Lilting. "You jump in the water so you stop sweating like a stegosaurus." explained Og. "Oh," replied Lilting.

Anxious to try out his new idea, Og dashed out of his cave and jumped into the waiting water. Unfortunately, almost immediately Og discovered another new phenomena called drowning which he proceeded to implement with marked enthusiasm. Luckily for Og (and especially for me since I couldn't figure out how to end this story otherwise), a passerby named Red Cross had already invented swimming and had gone one step further and invented life saving. Red quickly entered the water, calmed Og down and easily towed him to shore. Once on dry land again, Red checked the quivering caveman to ensure he was alright, and then instructed him in the following water safety rules:

a. Learn to swim well enough to survive in an emergency such as severe cramps or being selected as an appetizer by a tyrannosaurus.

b. Know the area you're swimming and diving in, and be wary of hidden rocks, debris, undertow, and the sea demon, Orto.

c. Never swim alone, and make sure whoever you're swimming with can help you if needed. A sabre-tooth tiger is not a good choice in this case.

d. Stay out of the water when overheated, after eating, and during electrical storms and/or volcanic eruptions.

e. Know the limits of your ability. Swimming across the boiling acid swamp is considered a little too advanced for beginners.

e. Should you get into trouble, don't panic. Just relax and concentrate on staying afloat. Panic is permitted however, if you are swallowed by anything larger than the average mountain.

g. Finally, if you are attempting to rescue someone else, avoid a swimming rescue. Instead, find a float, tie it to a line, toss it to them, and tow the person in. Using a piece of granite for this purpose is considered neither effective nor humorous.

Technical Highlights

FLIGHT TEST OF VOICE INTERACTIVE SYSTEM

The first operational flight test of NADC's voice interactive system was conducted at the Naval Air Test Center, Patuxent River, MD. The test was flown in a two-seat TF/A-18 Hornet with the voice interactive system installed in the rear cockpit. The rear seat operator issued voice commands to the NADC-developed voice recognition system. These commands were interpreted by "smart software" and routed to, and acted upon by other TF/A-18 avionics subsystems.

During the flight test, the pilot issued verbal commands and the system responded by presenting the appropriate changes either visually on the multi-purpose displays (CRT's) or aurally via the pilot's earphones. The pilot's voice commands allowed him to interact with the navigation, fuel and weapon systems. The system, at the pilot's request, also "Read aloud" the takeoff and landing checklists.

This is the first time in the history of aviation that a voice interactive system has been tested in flight.

COMMAND FLIGHT PATH DISPLAY (CFPD)PROGRAM — PHASE II

The CFPD program has entered the flight testing phase at the Pacific Missile Test Center, Point Mugu, CA. These initial flights were flown in the F-14. These flights successfully demonstrated the pilot could interpret the data and maintain position on the pathway displayed on a cockpit display in color video format. The information has been recorded on a video recorder. In addition, digital data on system performance has been recorded for later analysis. The full flight test using pilots of various experience levels started the end of February and continued into March. Completion date depends on aircraft availability and system performance.

P-3C UPDATE IV PRE-PROPOSAL CONFERENCE

NADC held a P-3 UPDATE IV pre-proposal conference March 1985 that was attended by approximately 100 industry personnel representing over 40 different companies. The conference followed February issuance of an RFP for the first phase of a two-phase competitive P-3 UPDATE IV Avionics Improvement Program.

As many as three Phase I contracts will be awarded for concept development and demonstration. A follow-on competitive full-scale engineering development contract will be awarded to one of the first phase contract winners. This update to the P-3 will include a new distributed data processing subsystem, a new multi-station display and control subsystem and integration of new radar, acoustic processor and communications subsystems with existing avionics. This is both a retrofit and forward fit program.

LOW COST SONOBUOY (LCS)

Development of the LCS, an acoustic sensor being designed as part of a new air Antisubmarine Warfare system for the future, achieved a significant mlestone when engineering development models were successfully air dropped in the St. Croix area. The hardware performed well. The development program will now proceed to the contractor demonstration phase scheduled for June through September 1985.

MEMORY TECHNOLOGY

The Office of Naval Technology (ONT) has selected the Memory Technology 6.2/6.3 efforts as one of nine ONT programs to be presented before Congress. Vice Admiral Baciocco, OP-98, presented the ONT technologies to both the House and Senate Armed Services Committees during March 1985.

Two of the memory technologies selected were: (1) the S-3A/B main memory replacement, offering a CMOS based low power, 36 bit/word, four times current memory capacity (32K to 128K) in one-half the current volume; and (2) Electrically Eraseable Programmable Read Only Memory based on MNOS/Floating Gate technology designed for application in Crash Recorders (F-16), Radar Warning Receivers, PHOENIX/HARM missiles, Airborne Self Protect Jammers, and AN/AYK-14 Pre-Planned Product Improvement Program.

Commander Salutes

AE2 Todd Adams, AT2 Robert Collette, AMH2 Larry Goheen, AD2 Michael Kazman, and **AME2 Anthony Smiley:** For providing 24-hour emergency security protection for a temporarily-assigned, high-value DoD aircraft.

Fire Chief Don Meadows, Captain Carlos Sanchez (Code 814C) and **Mary Ann Brett** (Code 091): For contributing to the Center's good relationship with Bucks County by hosting the Sesame Street Fire Prevention Safety Workshop.

David DeSimone, Donna Nicolo, Richard Hallman, Nancy Holden, Jonathan Kaufman, Norman Warner, Peter Yost, James Hardy, Jacob Eyth, Phillip Whitley, Michael Schultz (Code 60), **Donald Furmanski** (Code 20), **John Williamson, Harry Koper, Michael Mocenter, Harvey Sokoloff** (Code 30),**James Kingston, Regina Gasuk, Mary Ann Brett, Patricia Wenclawiak** (Code 091), **Ross Barcklow** (Code 81), **William Zar** (Code 83): For assisting with and ensuring the successful visit of the Navy League of the United States.

Barbara Turner, James McDiarmid, Marguerite Hoefling (Code 20), and **Dennis Turner** (Code 50): For invaluable support to Commander, Third Fleet during the BGAREM 85-1 exercise.

Promotions

Jeannette Schenk, Mary N. Ellsworth, Suzanne E. Firth, Mary Penge, Jacquelyn R. Benner, Kathleen Drager, Judith K. Scott, Jeanine M. Peterson, Douglas C. Bellis, Marguerite V. Hoefling, Francis G. Lorenz, Robert L. Oakley, Donald J. Spry, Edward J. Sweeney, Jane E. Anderson, Rodney B. Hall, Harry Reichardt, Martha E. Snyderwine, Janice L. Stribling, John A. Williamson, Jr., Dean S. Nathans, Khien B. Nguyen, Louis P. Pelosi, Stanley J. Zugay, Jr., William J. Bermingham, Lorraine A. Dalrymple, Michael J. Kiernan, Nicholas R. Mangino, John L. Santini, Johnson Yuen, Alan E. Ankeny, Peter Ayoub, Joseph E. Bebey, R. Bradley Cope, Fred Deneen, Jerome W. Duley, Keith C. Faller, Scott L. Fowler, Charles R. Hegedus, Ronald A. Kapusta, Stephen J. Levitski, Edwin F. McGlynn, Mary E. Odowd, Mark J. Sewell, James J. Thompson, Edward L. White, Phillip E. Whitley, Linda C. Giblin, Kenneth W. Smith, Veronica P. Szfanka, Albert F. Ferkel, Sr., John R. Beckum, Floyd A. Bollinger, Jr., Margaret A. Carrigan, Eileen Legates, Dolores R. Mitchell.

W&R goes to Washington

W&R — Washington, D.C. — 2 days — 21 & 22 June. 1st day enjoy your favorite Museum in the vast Smithsonian Complex; dinner at the Orleans House; nighttime sightseeing tour of the Capital City on your Starr motorcoach; then spend the evening relaxing at the Rosslyn Westpark Hotel. 2nd day visit George Washington's stately home, Mt. Vernon; a guided tour of Washington including Ford's Theatre and the house where Lincoln died. Single $103.; Twin $84.; Triple $79.; Quad $75. per person.

Deadline: 21 May 1985.

Contact Margaret Vigelis x3307.