

MELPARTICULARS

Volume 12, Number 9

E-Systems Melpar Division

November 1991

Record Bookings Achieved in September

Melpar's one-month bookings reached a record high in September. This unequaled performance contributed to E-Systems overall record third-quarter bookings which surpassed \$1 billion.

A major portion of Melpar's September bookings was owed to an ongoing support and services contract. Also included was a contract awarded by a new foreign customer for a digital audio recorder upgrade. Other contracts were for enhancements to a Melpar developed and produced Navy ground-based system, field support to the Greenville Division's Senior Guardian program and miscellaneous CTT-related efforts.

In the new technology area, Melpar won two significant contracts for work on high-temperature superconductors and the Cooperative Angle Jammer radar jamming system (see stories this page).

According to Melpar Vice President and General Manager Talbot Huff, "Defense and foreign policies are under revision, and their success depends on accurate information and the need for intelligence. Our record bookings in September demonstrate that our type of systems will continue to be in demand." **M**

Cooperative Angle Jammer Contract Awarded to Melpar

E-Systems Melpar Division has been awarded a \$4.3 million contract by the U.S. Navy, Naval Air Systems Command, to conduct a concept demonstration of its proprietary Cooperative Angle Jammer technique.

The program involves the development of advanced signal processing techniques

Continued on page 5

E-Systems Awarded Contract to Apply High-Temperature Superconductor Technology

E-Systems Melpar Division has been awarded a \$9.7 million contract by the U.S. Air Force to lead a university/industry team in providing the United States with the capability to use high-temperature superconductivity technology in defense applications.

The Air Force contract is sponsored by the Defense Advanced Research Projects Agency (DARPA), which promotes research and development leading to advances in defense technology.

Members of the E-Systems team include experts from the Massachusetts Institute of Technology, Cornell University, Superconductive Technologies Inc., Conductus Inc., the Georgia Institute of Technology, Datamax Corporation, Trans-Science Corporation, as

well as the Melpar and Greenville Divisions of E-Systems.

High-temperature superconductors are materials that conduct electricity with virtually no resistance when cooled. The materials offer potentially valuable uses in electronics where power and speed can be dramatically increased. However, several difficult problems in working with the materials have prevented practical application.

The team's objective is to solve the technological challenges and successfully demonstrate a viable capability using high-temperature superconductivity in electronic circuitry by 1994.

Continued on page 5

Melpar Toastmasters is Chartered

See Story on page 5



Toastmasters Area 22 Governor Mary Hamilton (left) presented the Melpar Chapter with the club charter in September. Council members are (left to right) Norm White, Pat Snell, Bill Pegues, Nancy Dubiell, Bob Moore and Katherine Clinton.

Whelchel and McArthur Receive Patent – E-Teamers Land Second Place Technical Paper of the Year



E-Systems President and Chief Operating Officer A. Lowell Lawson (far left) and Melpar Vice President and General Manager Talbot Huff (far right) present awards to the second place winners of E-Systems Technical Paper of the Year (left to right) Jim McArthur, John O'Malley, Bill Rinard and John Whelchel.

John Whelchel, senior member of the technical staff, and Jim McArthur, principal engineer, were recently issued a U.S. Patent for their invention of a Systolic Fast Fourier Transform Method and Apparatus. Both E-Teamers received \$1,000 from E-Systems as part of the newly expanded recognition program for inventors.

The invention entailed the development of an algorithm which allowed Fast Fourier Transforms (FFTs) to be dispersed across many processors at the same time. FFT is a mathematical equation that revolutionized signal processing more than 20 years ago. Its use has reduced the amount of computation needed to analyze the frequency spectrum.

Although the FFT reduced the computation rate, a trade-off occurred where the FFT could not be distributed among many processors. Whelchel and McArthur's algorithm invention allows for this parallel processing to occur.

"Pure and simple, we were looking at how to allocate the FFT across many processors so that you can continue to increase the performance of the FFT," says Whelchel.

With the additional efforts of Engineering Supervisor John O'Malley and Engineering Manager Bill Rinard, the invention later was implemented in Melpar's PINE system. Their expertise in hardware design made it possible to show the viability of using the FFT in an actual product.

From these achievements came their technical paper entitled "A Systolic Phase Rotation FFT: A New Algorithm and Parallel Processing Architecture." The paper was presented last year at the International Conference of Acoustics, Speech and Signal Processing in New Mexico and at the same group's conference in Canada this year. It also won second place in E-Systems corporate Technical Paper of the Year competition, in which all four E-Teamers were awarded \$700. **M**

Inside the Corporation . . .

E-Systems reported record high third-quarter sales, earnings and backlog as new order bookings surpassed \$1 billion. Quarterly sales from continuing operations were \$497 million, compared to third-quarter 1990 sales of \$439 million. Net income from continuing operations for the quarter was \$28 million, or 85 cents a share, versus \$24 million, or 77 cents a share, for the same quarter last year. Bookings of firm new orders amounted to a record quarterly high of \$1.006 billion, compared to \$597 million last year. Backlog of unfilled orders is up to \$2.712 billion from \$2.429 billion in 1990.

Peter A. Marino was named senior vice president and corporate officer by E-Systems Corporate Office in September. Marino will report to A. Lowell Lawson, president and chief operating officer, and will share executive management operational responsibilities with Dr. Terry Heil, also a senior vice president. Marino joined E-Systems from the Fairchild Corporation, where he was executive vice president and chief operating officer.

For the 19th consecutive year, E-Systems leads the nation in employee participation in the U.S. Savings Bonds program. E-Systems outdistanced a challenge by the Boeing Company by finishing with 97.6 percent of its employees participating, compared to Boeing's 96 percent.

The CM Division of E-Systems won a multi-year contract from the U.S. Navy for Advanced Narrowband Digital Voice Terminal (ANDVT) sets. The ANDVT is a system that provides the capability for secure voice communication. It will be installed onboard ships and submarines in the fleet, as well as on shore facilities and in Navy aircraft. The contract has an initial value of \$59 million, with additional follow-on potential of \$50 million.

E-Systems Greenville Division was awarded a \$27.4 million foreign military sales contract for the development and production of a dual-seat trainer version of the EGRETT all-composite, long-endurance, high-altitude platform. The fabrication, flight testing, and certification will be accomplished in Germany. E-Systems and the Grob Company of Mindelheim, Germany, are again cooperating on the trainer derivative. **M**

Montesano Applies for Patent

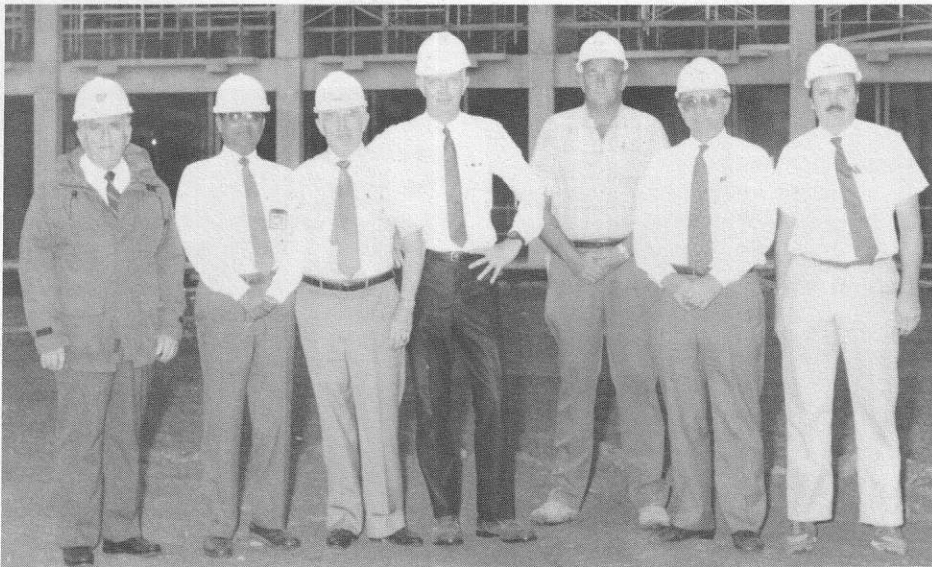
Mark Montesano, engineering supervisor of Advanced Technology, recently submitted a patent application to the U.S. Patent Office entitled "Heat Transfer Device and Method."

The device is designed to significantly improve the thermal performance of pitch fiber/epoxy composite heat sinks. Such composites are very lightweight (one-fifth the weight of copper) and can be useful in airborne applications.

Says Montesano, "The heat transfer device is a spin-off technology of the advanced airborne IR&D program, which addresses the severe weight and volume constraints on current airborne systems."

Montesano has been working for E-Systems for six years. During that time, much of his effort has been concentrated on cooling increasingly smaller electronic airborne packages. As part of the E-Systems incentive program for inventors, Montesano was awarded \$200 for the filing of his patent application. **M**

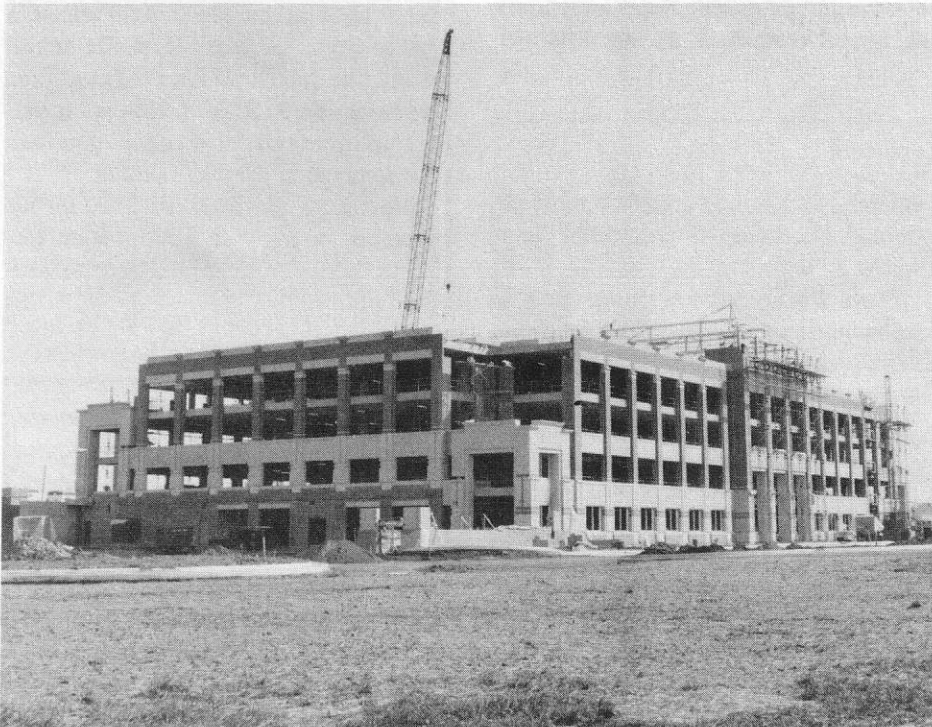
New Building Update



Checking out the new building construction are Melpar Vice President of Employee Relations Tony DePasquale, Facilities Supervisor Khandu Patel, E-Systems Director of Corporate Facilities Jim Donovan, Melpar Facilities Director Bill Watson, Charles E. Smith Companies Project Manager Herb Lawhorn, Facilities Manager Ron Angelelli and Charles E. Smith Companies Assistant Project Manager Steve Thompson.

Corporate Director of Facilities Jim Donovan stopped by the new E-Systems facility location in Sterling, Va., recently to survey construction progress.

The building has taken a definite shape as the concrete structure is now complete. Masonry work is underway, and the precast curtain walls are being hung. Inside the building, mechanical work, rough-in electrical, and the layout of drywall partitions have begun. Outside, the parking lot pavement is about 75 percent complete. **M**



Construction has remained on schedule, thus keeping the expected move-in date at 1 September 1992.

Mahood Elected IEEE Member

William Mahood, member of the technical staff in Melpar's Signal Processing Systems directorate, was recently elected a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE).

Senior membership requires at least 10 years of significant experience in a field of electrical engineering and is the highest professional grade to which a member may apply. Only 8 percent of the more than 300,000 IEEE members have been elected to this grade.

Mahood has been active in the IEEE for 25 years. His efforts were instrumental in establishing the Artificial Intelligence subchapter of the Computer Society. In 1989, he presented a paper at the International Workshop on Tools for Artificial Intelligence entitled "Incremental Learning Mechanism for Speech Understanding."

Mahood received his bachelor's degree in electrical engineering from the Massachusetts Institute of Technology and has a master's degree in computer science from the George Washington University. He is currently pursuing a doctorate in information technology at George Mason University, where his dissertation topic is "A Lexical Access Engine for Continuous Speech Understanding."

A 33-year Melpar employee, Mahood now coordinates the development of speech processing technology. He lives in Oakton, Virginia, with his wife Charlotte and their three

daughters, Shannon, Debra, and Rachel. When not working, he and his family enjoy sailing their 35-foot sloop on the Chesapeake Bay.



Bill Mahood

The IEEE is the world's largest engineering society. The purposes of the institute are scientific, educational and professional. The IEEE promotes the advancement of the theory and practice of electrical engineering, electronics, radio and allied branches of engineering, and the related arts and sciences. Membership is open to all who meet the experience or education requirements. **M**

Team Returns to Melpar to Receive Award



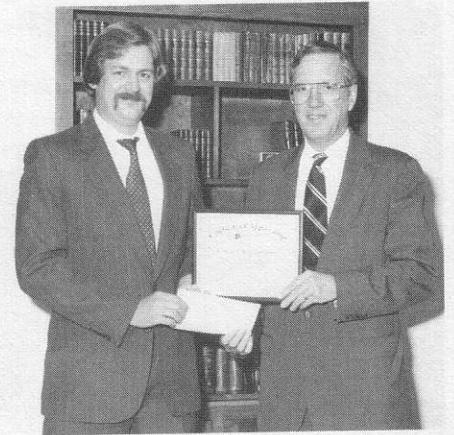
The team award for technical excellence was belatedly given to (left to right) Charles Riess, Philip Lawrence and Barbara Wordsworth by Talbot Huff (right).

Technical excellence team award winners Philip Lawrence, Charles Riess, and Barbara Wordsworth recently returned from assignment at the ECI Division to receive their award from Vice President and General Manager Talbot Huff.

The team was given the excellence award in absentia during the June management dinner. The award was one of several added to the annual program as a means of increasing employee recognition.

The team's responsibility and work on the SCIS program at ECI earned them the award. Their jobs required detailed knowledge of Ada software and many long hours away from their families and friends. Because of their work, Melpar maintained its interdivisional commitment to its sister division, ECI. **M**

Winklareth Receives Suggestion Award for October



Franklin Winklareth (left) receives his suggestion award from Talbot Huff.

Franklin Winklareth, senior design engineer, was October's suggestion award winner for his idea to get a price quote when reserving a rental car overseas.

Before Winklareth's idea was adopted, price quotes were not obtained when reserving a rental car for overseas use. When the car was actually rented, the Company was charged the "Best Price," which amounted to nearly three times the cost of a quoted price. For example, a \$3,369.80 "Best Price" was charged for a car rented in a major city in Germany for a one-month period. The quoted price for the same time frame was only \$1,193.71. Now, all traveling employees must have a price quote with their reservation contract number.

Winklareth was awarded \$220 for his suggestion, along with a recognition certificate, by Vice President and General Manager Talbot Huff. **M**

Toys for Tots

'Tis the season for caroling and candy canes, toy trains and tinsel, popcorn garland and presents—except for some needier children who have no hope for the holidays.

This year, Melpar will join with the U.S. Marine Corps Reserve and Volt Temporary Services in the Nationwide "Toys for Tots" program. Decorated collection boxes will be available in the Fairfax lobby and Falls



Church North Lobby from November 20 through December 20 when Santa Claus will arrive to pick up the toys.

Toys are needed for all age groups, including teenagers, who could benefit from items such as games or books. The Marine Corps Reserve will accept only new toys.

Used toys in good condition, such as stuffed animals, will be accepted, however. These toys will be separated later and given to local child service organizations. Please also remember that toys must not be gift wrapped.

Your donation will help make it possible for every child to have a special holiday while giving you the personal satisfaction of knowing what your generosity can do. **M**

Melparticulars

Published by
E-Systems Melpar Division
7700 Arlington Boulevard, Falls Church, Va. 22046

Editor: Tricia Reneau

Photographers: Lucy Murphy, Joe Baran,
John Newett

Production: Mary Wohlford

Printing: Doug Dreibelis

Contributors: Lynn Garland, Danny Kallick,
Wiley Peck

Melpar Toastmasters is Chartered

Melpar Toastmasters, a club designed to improve members' communication and leadership skills, was presented with its charter in September by the Toastmaster International District Governor.

Current club officers are Pat Snell, president; Bill Pegues, educational vice president; Nancy Dubiell, treasurer; Bob Moore, secretary; and Katherine Clinton, sergeant at arms.

The club held its first Humorous Speech and Evaluation contest recently, culminating with winners Morris Kaplowitz and Dick Oliver. Both contestants then went on to



Morris Kaplowitz (left) and Dick Oliver (right) were winners in the Humorous Speech and Evaluation Contests.

compete in the Area 22 contest in September. Dick Oliver also represented the area in the Division B contest in early October.

Melpar's Toastmasters club meets Thursdays at 11:45 in the Falls Church Training Room. An average of 20 or more members typically attend in addition to several guests. Each member has already given at least one prepared speech and has participated in impromptu speaking at the meetings they have attended. The club is continuing to grow as more and more E-Teamers become excited about what Toastmasters offers in the way of improved communication and leadership abilities. Those interested in finding out more about the club are invited to attend the weekly meetings. **M**

HI-TEMP SUPERCONDUCTOR Continued from page 1

"This will offer an important new electronics technology that is expected to greatly reduce the size of supercomputers and digital systems while significantly increasing performance," says Dr. Dennis Krausman, managing director of Melpar's Advanced Technology organization.

Work on the project will begin immediately and will take place at Melpar's Falls Church facility, as well as at the team members' facilities in Massachusetts, New York, Georgia, Minnesota, Texas, and California. **M**

COOPERATIVE ANGLE JAMMER Continued from page 1

and hardware for electronic countermeasures used to protect tactical military aircraft against modern enemy guided missiles. This technology was initiated by E-Systems over the last several years.

"The contract award marks a new entry for E-Systems into the active electronic warfare business area," said Phil Dietz, director of Technical Development. "Active electronic countermeasures is a market sector that shows promise over the coming years because of the successes of similar equipment during Operations Desert Shield and Desert Storm." **M**

Uncle Sam Makes Gift Giving Easy


The holidays are almost upon us and with a shorter shopping season this year, you may find yourself desperately trying to find the perfect gift in a crowded shopping mall. Well relax, Virginia, because Santa Claus is here in the form of U.S. Savings Bonds.

Savings Bonds make wonderful gifts for everyone in the family. They are an investment in the future and are much more likely to be remembered when spent than cash. Purchased for half their face value, as little as \$25 will start earning interest for your favorite friend or relative.

The Series EE Savings Bond now pays market-based interest rates (6.38 percent through April 30, 1992) and is guaranteed by the U.S. government against loss, theft, and destruction. Bond interest earnings are exempt from state and local income taxes, and the federal income tax liability on earnings may be deferred.

Bonds can be purchased through Melpar's payroll savings plan. You can also purchase Bonds through most local banks. But you should purchase them early, because it may take about three weeks for them to arrive since many banks no longer stock Savings Bonds. (Gift certificates are available.)

With such a versatile gift so easily at hand, you shouldn't have any trouble meeting the needs of everyone on your gift list while still leaving time to enjoy the holiday season. **M**



DECK THE DOORS!

Although Melpar will not be holding a Holiday Festival this year due to the scheduling of the Company Picnic in July, the door decorating contest will still go on and be held **December 13**.

As in the past, entries will be limited to groups of ten or less and will consist of one door or office partition. First, second and third place prizes will be awarded for both Falls Church and Fairfax.

**Look for further information in your mailbox
or call Employee Relations, x2717.**

Melpar Adopts Highway

A basketball backboard with the net, an automobile transmission and one bucket full of cigarette butts were some of the items collected when Melpar employees held their first pickup after formally adopting a three-mile stretch of Waples Mill Road as part of the state Adopt-A-Highway program. The program is designed to enlist the participation of residents and businesses to help overcome the litter problem along the state's highways.

Efforts to adopt Waples Mill Road began with the Mechanical Design department in the Fairfax facility. The adoption took place in September while the first pick-up was held in October.

Litter pick-up will be done on both sides of the roadway four times a year and more often if necessary. Like other participants,

Melpar adopted the highway for a minimum of two years. Because of Melpar's impending move of its Fairfax facility to Sterling, the adoption will be transferred to the stretch of Route 7 which runs in front of University Center.

The first litter pick-up yielded 26 bags of trash collected by 20 E-Teamers and their families and friends. Also gathered were three tires, one stop sign, 60 feet of cable and wires, five large sheet metal panels and four hubcaps.

Everyone attended a short safety meeting before the pick-up date designed to highlight ways to minimize the dangers of working alongside traffic. Safety tips given at this meeting included instructions to wear an orange safety vest to make participants more

easily visible and staying on the right of way facing the traffic. Safety meetings will be scheduled twice a year for those interested in participating in the program.

Besides contributing to the beauty of Waples Mill Road, the participants were able to separate and recycle two full bags of aluminum cans. The pick-up coincided with the statewide cleanup for Recycling Month, held every October. **M**

Thanks to the following people who made this pickup such a success:

| | |
|----------------|-------------------|
| Cindy Shaw | Richard Frederick |
| Ethel Lorenzo | Lynn Frederick |
| John Moore | Allen Wallace |
| Ryan Moore | Jeff Altenhof |
| Chris Moore | Ben Winder |
| Sandie Esen | Donna Cafarella |
| Dave Cook | Dang Nguyen |
| Tim Bennett | Tim Sweeney |
| Justin Bennett | Stan Bradley |
| Paul Kemlage | |



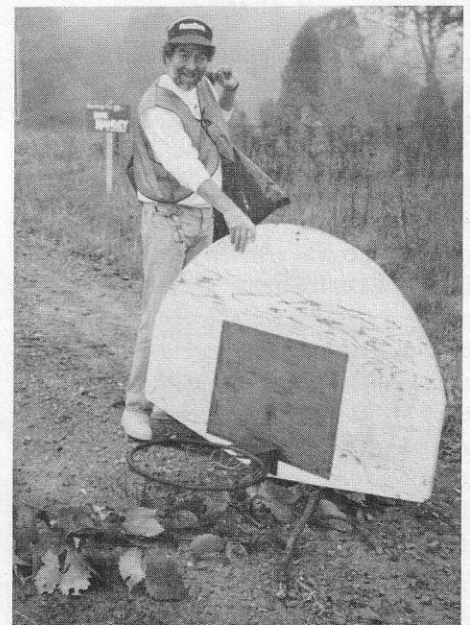
Front row: Dang Nguyen, Chris Moore, Justin Bennett, Sandie Esen, Donna Cafarella. Back row: Dave Cook, Tim Bennett, Paul Kemlage, Ryan Moore, Richard Frederick, Allen Wallace, Jeff Altenhof, Ben Winder, John Moore.



Not even the smallest trash got by Paul Kemlage (left) and Jeff Altenhof. Cigarette butts, they found, are not biodegradable and significantly contribute to the litter along our roads.



"Is this what you have to do to get in the paper?"



Stan Bradley nets a big one.

HealthTalk . . . Help for "Working Feet"

What's the first thing most people do when they get home from work? They kick off their shoes to ease their tired, aching feet.

Annu Goel, a podiatrist on the Fairfax Hospital

medical staff, says work shoes usually get the blame, but they are not really the culprit. "Generally, the shoes you wear won't actually cause problems with your feet," said Dr. Goel, "but they can certainly aggravate particular conditions."

If a person has bunions, for example, shoes will not fit properly over the protrusion. By the end of a long work day, that poor fit can cause considerable pain. For a person with hammer toes, work shoes that fit tightly over the toes can cause cramping, especially when feet become swollen in late afternoon.

It's hard to ignore problems such as bunions, hammer toes, calluses or warts, all of which result in distortion of the foot's surface. But many people suffer recurrent bouts of heel pain—sometimes very intense heel pain—without ever seeking the help of a podiatrist.

According to Dr. Goel, that kind of heel pain is caused by plantar fasciitis, an inflammation of the band of tissue on the bottom of the foot. "The

plantar fascia functions as a tension band against a tripod, and when there is excessive stress on the foot, a change in pressure or unusual foot motion, the plantar fascia tries to compensate and control," she said.

Runners are especially susceptible to plantar fasciitis, but workday stresses are also an important cause of the problem. High heeled shoes, for example, put an enormous amount of stress on the plantar fascia. And executives who make a lot of business trips may also risk plantar fasciitis—especially if they find them-

"Generally, the shoes you wear won't actually cause problems with your feet. . ."

selves walking miles through the corridors of airports in shoes that are meant to look spiffy in the office but aren't designed to absorb the shock of a gate-to-gate jog.

"Many people don't realize the stress these ordinary workday activities put on their feet," said Dr. Goel.

Working feet don't necessarily have to suffer these discomforts anymore. Wearing the right shoes for the pounding tasks of the

It's hard to ignore problems such as bunions, hammer toes, calluses or warts. . .

workday is getting easier all the time. It's common to see men and women wearing athletic footwear with

their business clothes to and from work. Several manufacturers are now designing dress shoes—even fashionable women's dress shoes—with an eye to the stresses a hard-working foot meets each day.

Being concerned about foot health is another important part of caring for working feet. It's important to see a podiatrist at the first sign of pain or unusual

growths. The podiatrist has a wide range of options when treating bunions, hammer toes, ingrown toenails or other foot problems at an early stage.

For many common problems, treatments are simple, relatively painless, and won't even require your taking time off from work. For plantar fasciitis, Dr. Goel normally tapes the foot to distribute the weight more evenly and prescribes anti-inflammatory drugs to relieve the pain. She then prescribes a regimen of

For many common problems, treatments are simple, relatively painless . . .

physical therapy. She may also advise the wearing of orthotics—custom-prescribed shoe inserts designed to normalize the distribution of weight.

HEALTHTALK IS A COMMUNITY SERVICE OF FAIRFAX HOSPITAL, FALLS CHURCH, VA.

E-SYSTEMS
USE THE MELPAR DIVISION ETHICS HOTLINE
For Questions or Concerns About Proper Conduct by:
• E-Systems Employees
• E-Systems Suppliers and Vendors
• Consultants
• Government or Other Customer Personnel

DEFENSE INDUSTRY INITIATIVES

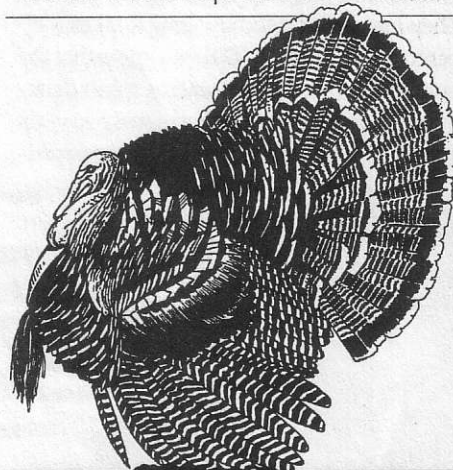
CALL
849-1577
(or ext. 1577)

You can call the **CRASHLINE**
804-252-7373
8:00 a.m. to 5:00 p.m.
ast. 795

IDENTITIES OF CALLERS WILL BE HELD IN STRICTEST CONFIDENCE
(Anonymous Calls Will Be Accepted)

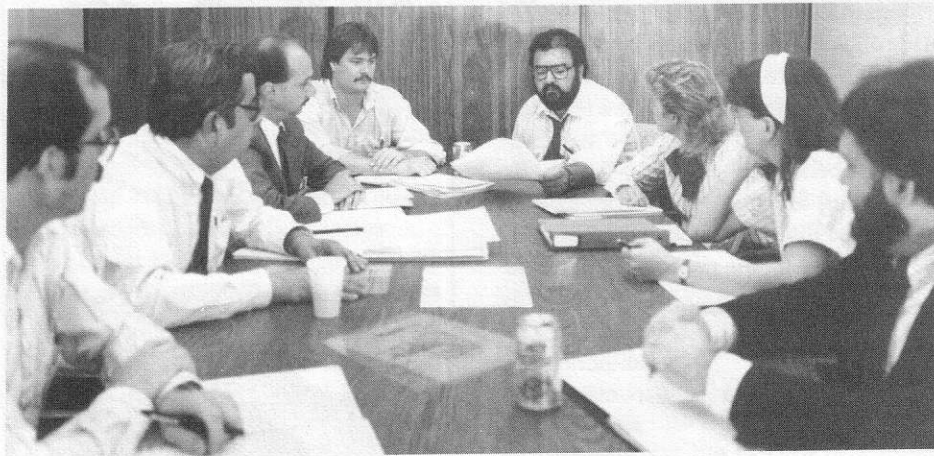
Children's Hospital Fund Drive
December 4 - 13

From the Melparticulars Staff



Happy Thanksgiving!

TQM UPDATE: "We Can't Continue to do the Same Things But Expect Different Results!"



The BUGS Team: (left to right) John Masiowski, Larry Wozny, Gregg Bielen, Tom Sammons, Dan Davis, Pam Rice, Sarah Peterson and Larry Reed.

Throughout Melpar, employees are thinking about ways to improve their processes. They are asking questions such as: "How can we do this process quicker?" "How does our customer feel about our performance?" "What should we change to make our customer happier with the output?" To make continuous improvement a reality, we all have to think about such questions every day, and we have to work together to make improvements happen.

Teamwork is key for improving processes. TQM process improvement teams are at work in all areas of the division. For example:

Repairs. The Repairs team, led by Jim Loudermilk, is wrapping up its efforts to reduce the cycle time of the repairs process. They have measured how long it takes Melpar to repair an item. (Did you know that the number of Intelligence Systems repair delinquencies is ten times less than it was two years ago?) The team is working to develop consis-

tent processes between Falls Church and Fairfax. Currently, the Repairs team is clarifying and documenting the suggested revised process.

R&R. The Recruitment and Retention team, led by Ken Yancey and facilitated by Joe Myers, was instrumental in the expansion of Melpar's recognition program. Two team awards and one additional individual excellence award were presented at the June Management Dinner. There also will be 10 superior performance awards and some technical writer awards selected this year. Winners will be invited to an awards banquet.

The BUGS (By Unit Test Get It Straight).

Intelligence System's software process improvement team is aiming to reduce the number of software errors detected after unit test, during the system integration and test (I&T) phase. Larry Wozney is leading this team and Gregg Bielen is facilitating it. They are currently working on de-

veloping a detailed flow chart of the current process and selecting some metrics to evaluate the process.

The Terminators. Wrong wire connections was one of the most frequently occurring defects last year. A team in Assembly, led by Carol Smootz and facilitated by Joe Myers, is working to reduce these types of errors. Through analyzing the current process, this team found that different operators performed the wiring process in various sequences; the operating instructions were not precise or clear enough to specify the preferred sequence. Also, distractions and interruptions caused some of the errors.

Network. The Operations network improvement team, led by Norm White, is working on defining a structure for managing the network in order to enhance the electronic exchange of information. An interim mail system has been developed so approximately 600 employees already



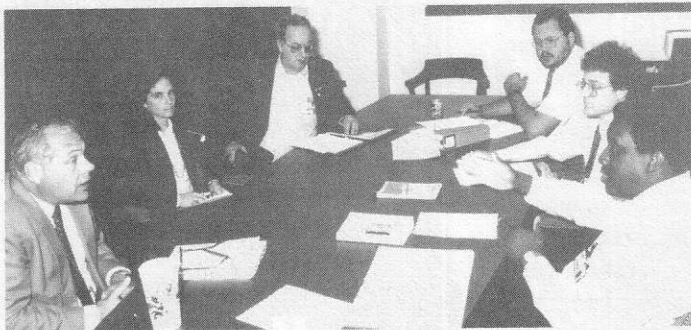
Quality Bidders: (left to right) Larry Terry, Fred Fulton, Sheila Adams, Larry Reed, John Durgavich, Mike Moore and John Puzder.

hooked to the network can send mail to one another with the mailing address information available in the phone book. The format is ww:yyyyyyyyy.zzzz, where ww is the facility, x is the first initial, yyyyyyyy is the last name, and zzzz is the telephone extension. For example, to send mail to Norm White, use "fc:nwhite.1572".

QBs. The QBs (otherwise known as the Quality Bidders) are working toward improving the quality of the Quality Assurance organization's bids. Under Larry Reed's leadership, with John Durgavich's support as a facilitator, they have already identified some characteristics of a good bid: consistent between departments, easily verified, accurately reflect required QA coverage.

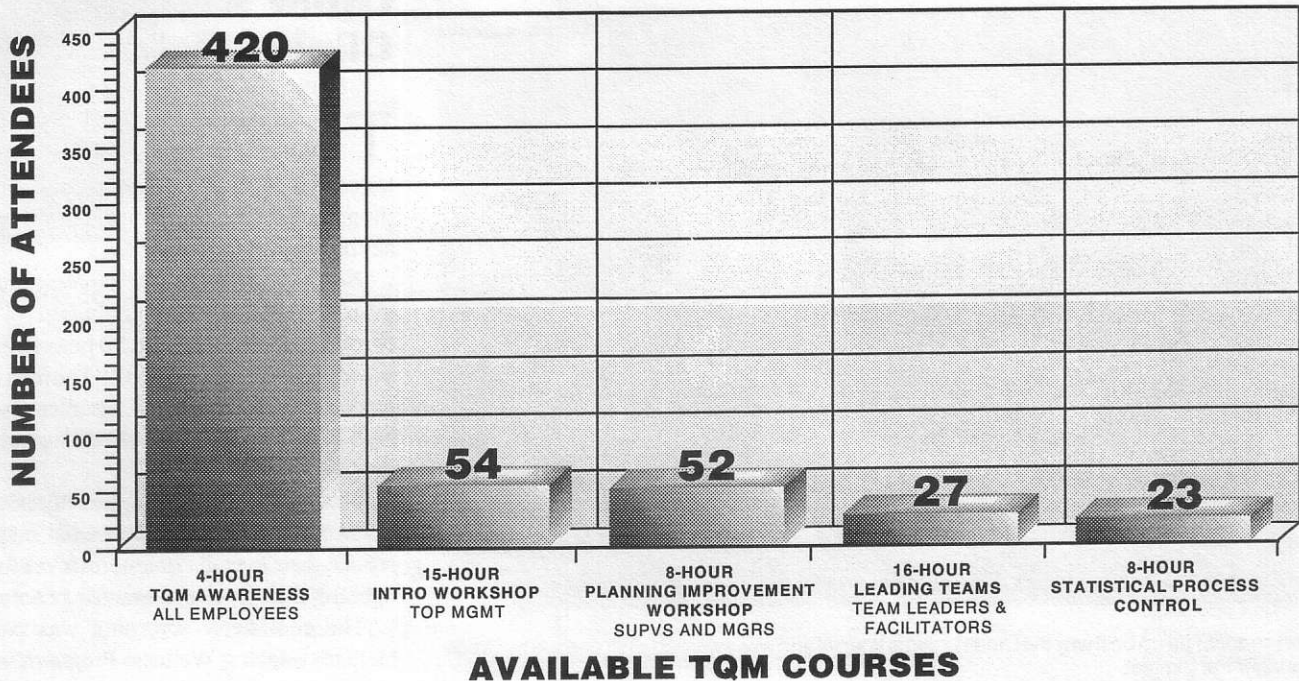
We must do things differently to get different results, and we are!

M



The Network team seeks to facilitate use of the electronic network. (Left to right) Bill Mitchell, Lynn Garland, Norm White, Kim Woodward, Barry Suskind and Dorian Witcher.

TQM CLASS PARTICIPATION AS OF SEPT. 1991



What are Our Customers Doing?

Some sort of Total Quality improvement effort is ongoing in 90 percent of mid- to large-sized companies. Greenville and

ASD's major TQ Initiative was started in 1987 . . .

our customers doing?

Lieutenant General Thomas R. Ferguson, Jr., commander of the Aeronautical Systems Division, spoke about ASD's Total Quality improvement efforts at the sixth annual quality symposium held at Wright-Patterson Air Force Base in Ohio.

[ASD] reduced the number of suppliers . . .

General Loh (the commander before his promotion). Clearly, four years later the initiative is going strong. More than 6,000 employees have been trained in TQM phi-

losophy, and more than 500 employees have attended a 4-day team leader course.

Improvement efforts are ongoing throughout ASD. For instance, ASD has been working to develop better relationships with its suppliers so that the suppliers will be more responsive to their needs. In so doing, they have reduced the number of suppliers they work with from 138,000 to 40,000.

Commander Ferguson focused on the importance of measurements. ASD has carefully selected 35 parameters which are considered the best overall indicators of the division's performance, emphasizing those areas ASD's customers care about most. For instance, schedule compliance is one critical perfor-

ASD carefully selected 35 parameters . . .

. . . selecting and measuring CPIs is not enough.

mance indicator (CPI) tracked. It is calculated as the percent of critical milestones met on major programs.

He stressed that selecting and measuring the CPIs is not enough. They must be communicated to everyone involved. Every two weeks, the ASD bulletin showcases a different set of metrics. Communicating these measures helps give everyone a sense of purpose and helps people focus on the important issues and the "right things."

Quality used to be thought of as: *Doing things right*. Then it was: *Doing things right the first time*. Now it is: *Doing the right things right the first time*. **M**



Anderson Wins Credit Union Essay Contest



Eric Anderson summed up best why the Credit Union is special and was awarded a gift cheque by Credit Union Manager Pat Kimmel.

Eric Anderson, Facilities inventory control clerk, wrote the winning composition in the Melpar Employees Federal Credit Union essay contest in October.

The contest was held to celebrate International Credit Union Day, which was established to bring members together to reflect on their cooperative history and credit union achievements. This year, the International Credit Union Day was held 17 October.

Anderson's essay, which had to be 100 words or less, won him a \$25 American Express gift cheque. The following is his essay:

The Credit Union symbolizes a special type of unity among family, friends and co-workers. This unity has but one goal for each of its members: Economic freedom. Freedom to make life easier and more enjoyable. It also gives people access to money to make dreams come true. For some it can mean a new house, a new car or even a college education.

But the most important aspect of credit unions is the membership itself. Members form a family and a special bond, and this bond embodies the American spirit to come together and help one another.

Cholesterol Screenings and Other Wellness Clinics Held

Two hundred and ten E-Teamers recently had their blood cholesterol levels tested during Melpar's cholesterol screening program. The results of those tests were not all that heartening to some.

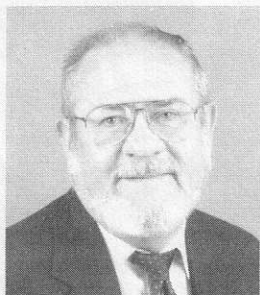
Nearly 20 percent of the females tested fell into the high risk range for cholesterol (240 or more), while more than 50 percent ended in the unsafe range (200-239). The men fared just a little better with 18.5 percent having high risk cholesterol levels and nearly 40 percent with unsafe levels.

Because of the screening, many of those tested were able to take needed steps to reduce their overall cholesterol levels by re-defining their food and exercise practices.

The cholesterol screening was part of Melpar's ongoing Wellness Program, which was designed to heighten employee interest in staying healthy. Other recently held testings included hearing tests by the Blue Ridge Speech and Hearing Center of Loudoun County in which 39 employees participated, and glaucoma testing for 50 employees by the Society for the Prevention of Blindness. A breast cancer awareness seminar was also held for approximately 50 female E-Teamers by the American Cancer Society. In October, 120 E-Teamers showed up for the record donation of 112 pints of blood to the American Red Cross.

Continued next page

In Memoriam: Tom Parks 1927-1991



Tom "T.K." Parks, technical assistant to the vice president, died September 8, 1991 of cancer. He was 63 years old.

T.K. came to Melpar from Wetumpka, Alabama, 38 years ago as an engineer. T.K. played a major role in the success of Melpar's current major business base, that of Remotely Controlled SIGINT Systems (RCSS). Back in the days when Melpar was still young, T.K. teamed with Melpar RCSS pioneers Bill Stone, John Knapp and others to insert intelligence communications equipment into anything that could fly. His work significantly contributed to the success of the TGIF program and others that Melpar is still supporting today.

An avid reader, T.K. was considered a great teacher and listener. Many younger employees sought T.K. out for his guidance, wit and wisdom.

Many of T.K.'s non-working hours were spent around his house in Oakton. There, he immersed himself in gardening and caring for his horses, dogs, cats and other animals he kept.

T.K. is survived by his wife Kathryn A. Parks of Oakton and their daughter Kathryn Wagner of Tennessee.

Service Awards for September/October



Louise H. Lewis
35 Years

Not Pictured
Weston R. Goode
35 Years

Twenty Years

Randolph N. Smith

Fifteen Years

Alan W. Jackson
Ellen I. Crim
Frank E. Lanham

Ten Years

Mridul Batra
Carmen E. Benitez
Gracie M. Davis
Lawrence M. Dicerbo
Richard D. Dickerson
Paul A. Gardner
Charles A. Gasaway
Lisa L. Harris
Thien E. Held
Stephen A. Helton
Robert A. Leidig
Norma S. Lofgren
Robert L. McLean
Elsa M. Murphy
William J. Pallone
Murray G. Parker
Nancy L. Rutherford
Rena F. Willis

Five Years

Mary L. Ambrose
Ronald P. Angelelli
Claude A. Baker
Timothy C. Benson

Five Years (Cont'd.)

Clifford E. Brown Jr.
Patricia A. Castle
Elizabeth L. Clark
Katie B. Clark
Cuong X. Dang
Paul R. Day
Nicholas A. Embrey
John R. Finch
Bernadette P. Ford
Peter O. Gervais
Timothy D. Gilchrist
Gloria M. Granum
Clarence E. Grimes
Theodore D. Hauffe
Robert I. Kahane
Patricia S. Kimmel
Marcia L. Kozuch
Blanche L. Losh
Barbara C. Lowitz
Mark L. Lynch
Nicki L. Marsh
Stephen M. McCain
Ronald K. Mihara
Dianne N. Miller
Huyen Le Nguyen
Young-Soon Y. Park
Debra L. Posey
James W. Sealock
Janet P. Seecharan
Alexander J. Sinlock Jr.
John K. White Jr.

Movers and Shakers

Falls Church

B. F. Barlow
G. L. Brown
J. H. Chau
B. W. Christopher
J. F. Clizbe
G. E. Coble
K. M. Doherty
M. E. Emer
T. V. Farewell
W. M. Havens
M. I. Hawkins
J. O. Holmes
J. A. Jarrett
M. Kaplowitz
R. D. Lyons
J. H. McLaughlin
W. A. Morrison
F. A. Muhlenberg
J. L. Newett
D. M. Nguyen
J. N. Sacks
R. J. Sakmyster
M. F. Salko
T. R. Sammons Jr.
S. K. Spero
C. W. Stump
R. A. Summers
K. R. Thomas
M. F. Walsh
W. D. Whitmer
L. J. Williams

Fairfax

T. R. Cooper
C. G. Davis
B. D. Decker
M. S. Dudden
M. J. Hur
P. A. Mansour
C. E. Snyder Jr.
B. L. Springman
R. T. Sterling
D. W. Strong
D. E. Thompson
L. R. Veney Jr.
R. L. Wilke
M. J. Zito
S. T. Zyglowicz

Promoted From:

Eng Technician
Assem 1/CL
Report Typist B
Warehouse Grp Ldr
Assoc Ind Eng
Cost Analyst
Sr Elect Eng
Assoc Cost Analyst
Cost Analyst
Assoc Cost Analyst
Porter
Lead Design Eng
Sr Test Tech
Admin Engineer
Sr Fld Design Eng
Contracts Admin
Assoc Fin Analyst
Programmer
Media Technician
Ind Eng
Assoc Cost Analyst
Programmer
Cost Analyst
S/W Analyst
Secretary
Prin Eng
S/W Analyst
Sr Elect Eng
Assoc Systems Eng
Sht mtl Mech 1/CL Grp Ldr
Stock Clerk

To:

Sr Eng Technician
Assem Technician
Report Typist A
Material Asst
Industrial Eng
Sr Cost Analyst
Prin Eng
Cost Analyst
Sr Cost Analyst
Cost Analyst
Porter Grp Ldr
Sr Design Eng
Jr Test Eng
Sr Admin Eng
Prin Fld Design Eng
Sr Contracts Admin
Finan Analyst
S/W Analyst
Sr Production Spec
Sr Ind Eng
Cost Analyst
S/W Analyst
Sr Cost Analyst
Sr S/W Analyst
Contracts Asst
Eng Supv
Sr S/W Analyst
Prin Eng
Systems Eng
Planning Supv
Asst Gov't Prop Admin

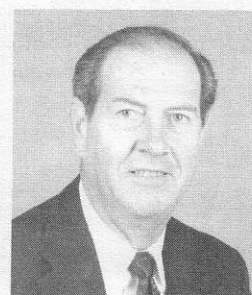
Prin S/W Analyst
S/W Analyst
Jr Programmer
Assoc Cost Analyst
Assembler 1/CL
Fld Design Eng
S/W Analyst
Assoc Elect Eng
Design Eng
Design Eng
S/W Analyst
Cost Analyst
Eng Design Asst
Eng Specialist
Assoc Elec Eng

S/W Eng Supv
Sr S/W Analyst
Prog Assistant
Cost Analyst
Assembler Tech
Sr Fld Design Eng
Sr S/W Analyst
Elect Eng
Sr Design Eng
Lead Design Eng
Sr S/W Analyst
Programmer
Eng Specialist
Fld Design Eng
Elect Eng

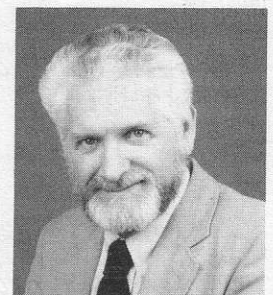
Retirees



Bud Hilker
34 Years



Frank Morrison
10 Years



Bob Payne
36 Years

CHOLESTEROL from page 10

These programs were made possible by the efforts of Melpar's own in-house nurses. Their next planned wellness event will be the Great American Smokeout to be held November 21. Information on this program may be picked up in either the Falls Church or Fairfax dispensary. **M**

Men's Softball Winds Up Improved But Frustrating Season

Melpar's Purple Haze men's spring and summer softball teams finished frustrating seasons with a combined record of 29-23, while the Industrial League team finished in fourth place at 12-9.

The spring season's decline began when the games were rescheduled for Friday nights, resulting in low turnouts. A fifth-place finish in the tournament saved the season, however.

The Friday night syndrome afflicted the summer team as well, which ended its season with a fourth-place finish.

Team MVP was Doug Smith, who was the overall leader in batting, runs and hits. Other offensive weapons included Kevin Martin, Chris Bilbie, Bill Kyker, Jim "Jose" Palermo, Alex Heidt, Danny Kallick, Scott Davis and Rich Radcliffe. Special acknowledgement goes to the home run and RBI leader Jeff Campbell. Thanks for a great season to the players and all the quick-call backups.

Any guys (sluggers wanted) interested in playing on next year's team should contact the team manager, Danny Kallick, x2638. The season will begin in late March 1992. **M**



Purple Haze men's softball team. *Front row (left to right):* Rich Radcliffe, Mike Baker, Scott Davis, Chris Bilbie, Danny Kallick. *Back row:* Owen Stinnett, Jeff Campbell, Doug Smith, Kevin Martin, Jim Palermo, Bill Kyker, Lin Leftwich. *Not pictured:* John Ryan, Paul Gardner, Alex Heidt.

E-Teamers Sprint to Second Place Finish in United Way 10K



United Way 10K Winners. *Front Row:* Roel Abacan, Hector Velez, Jim Foster, Larry Dicerbo, David Nee, Dave Conti. *Center row:* Joyce Smith, Dave Haught, Deborah Sammons, James Redel, Craig Warnick, Betsy Larson, Eldon Mack, Dave Olson, Debbie Greenstreet, Nathan Ward, John Humphrey. *Back row:* Allen Eisenmann, Dan Horvath, Frank Byrne, Rex Enos, Jennifer Glass, Bill Pegues, Lee Jenkins, Wayne Thomson, Wiley Peck, Joe Roesch, Reid Earley, Mike Dutchak. *Not pictured:* Deepak Daryanani, Joe Jones, Dick Landauer, Leslie Hickman.

Melpar's 1991 United Way Campaign got off to a running start with outstanding E-Teamer participation in the 1991 United Way 10K race held 29 September in Washington, D.C.

This year's United Way 10K had a greater turnout than last year. Melpar was represented by a group of 40 runners (including three co-ed teams) and successfully achieved their goal of beating last year's third-place finish in the co-ed division. The Melpar team raced to a second-place finish among 25 other co-ed teams.

The 40 E-Teamers who ran this year were

a part of more than 2,400 people who registered for the race and helped provide a donation in excess of \$41,000 to the United Way.

Special thanks go to team captain Wiley Peck along with Larry Dicerbo and John Humphrey for organizing this year's E-Teams.

Runners are encouraged to start making plans now to join the team next year on 27 September for the 1992 United Way 10K. Until then, suggestions are welcome for making next year even more successful. Please call Wiley Peck, x2372, or drop him a line at M113. **M**

E-Systems, Inc. Melpar Division
7700 Arlington Boulevard
Falls Church, Virginia 22046
Forwarding and Address Correction Requested

