

MELPARTICULARS

Volume 6, Number 3

E-Systems Melpar Division

June 1985

FIRST MRSS CUSTOMER TRAINING PROGRAM COMPLETED AT MELPAR



Standing around the mobile configuration of the MRSS from left to right are: John Baney (Sandia), Bill Moore, Terry Real, Steve Floyd, TSGT Roger Brammer, TSGT Allen Eakin, SSGT Douglas Wescott, and TSGT Carl Quisinberry.

Melpar's training staff has recently completed the first customer training program on the latest physical security sensor system developed by Melpar's Physical Security Laboratory. The Monostatic Radar Sensor System (MRSS) was developed under the direction of Lab Manager David Gershberg. This new state-of-the-art sensor, designed for the U.S. Air Force (USAF), under contract to Sandia National Laboratories, provides essential secur-

ity surveillance support to military police forces protecting parked aircraft and other high value items.

"Training programs are a fundamental element in the development of military equipment—just as vital as the design, test, and manufacturing of these systems," according to Steve Floyd, Senior Electrical Engineer in Melpar's Physical Security Laboratory.

As part of their plan to deploy the
MRSS TRAINING Cont. on page 5

SAVINGS BOND DRIVE IN FULL SWING

The Industrial Relations Department will once again coordinate this year's Savings Bond drive at Melpar. With the E-Systems' theme of "Building a Stronger America," the goal of this drive is to have 100% participation from all E-Teamers. Department representatives will attend a kick-off meeting where they will be briefed and receive enrollment information. Posters will adorn the halls and drawings for Bond prizes will be held for all employees participating in the program. The dates for the Bond drive are June 24-28, 1985.

E-Systems continues its history of involvement in Savings Bond drives. In the *Communicator's Quarterly*, published by the Department of the Treasury, special mention was made of our Company and all it has done to contribute to Savings Bond drives. Ninety-nine percent of E-Teamers have enrolled in the payroll savings plan, which is the highest participation rate of any company of its size in the country.

Savings Bonds continue to be a sound investment. The latest figures published by the Department of the Treasury indicate that the market-based interest rate for Series EE Bonds issued between May 1, 1985 and October 31, 1985 is 9.49%. The average yield for Bonds held since the beginning of the market-based interest program is 9.92%. The *minimum guaranteed* yield on Bonds held five years or longer is 7.5%.

So, help Build a Stronger America, invest in U.S. Savings Bonds!

E-TEAMERS ATTEND ANNUAL STOCKHOLDERS MEETING IN DALLAS

Melpar Communication Council representatives Barbara Goble, Secretary, and Annette Clark, Sr. Clerk A, attended this year's Annual Stockholder's Meeting at the Corporate Headquarters in Dallas, Texas.

After arriving in Dallas on Sunday April 21, Goble and Clark were escorted to the Marriott hotel on LBJ Freeway where they had the opportunity to meet and interact with other Communication Council members from the various E-Systems divisions. The next morning everyone was given

the "silver cloud tour of Dallas," headed by Don Bird, Corporate Director of Employee Benefits, and Carlene Economy, Benefits Assistant. Barbara Goble stressed how the two corporate representatives made the trip enjoyable by going out of their way to be helpful and showing everyone the sights of Dallas despite the heavy rain that curbed sightseeing options. "They really made us feel like part of the E-Systems team."

On May 23 at 10:00 a.m., everyone attended the Stockholders Meeting.

John Dixon, Chairman of the Board and Chief Executive Officer, gave a 45-minute speech in which he presented the annual report for 1984, calling it "an excellent financial performance." He emphasized E-Systems' consistent and significant growth since 1980. Dixon talked about the Company's Research and Development (R&D) praising the technological advances made at E-Systems and stressing the dramatic total R&D effort increase in the past five years. Dixon
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NEAL ISHMAN AWARDED PLAQUE FROM IEEE

Recently celebrating its 100th anniversary, the Institute of Electrical and Electronics Engineers, Inc. (IEEE) is the world's largest engineering society and a leading authority in areas ranging from aerospace, computers and communications to biomedical technology, electric power, and consumer electronics. In April, at the IEEE Awards Banquet held for the Washington and Northern Virginia Sections, Melpar's Vice President of Advanced Development, Neal H. Ishman, was awarded a plaque which commemorates his numerous contributions as past Chairman of the Northern Virginia Section of the IEEE.

Neal Ishman served as Chairman from July 1983 to June 1984; his term coinciding with the IEEE's centennial year. Ishman's extensive involvement prior to and during his chairmanship, gave him a unique perspective into this global organization. "The value of the IEEE is that it provides a communications medium for technological work," Ishman said. Engineers and scientists are able to pool their resources through the IEEE which takes advantage of the past research, as well as the availability of current research and development.

The IEEE is an international organization which comprises over a quarter of a million members. The roots of this organization began over a century ago with the creation of the American Institute of Electrical Engineers (AIEE) founded in 1884. At the turn of the century, technical inventions mushroomed and another new technology emerged—radio. This led to the formation of the Institute of Radio Engineers (IRE) in 1912. In 1963 these two organizations merged to form the IEEE as we know it today. "I think it was a good mixture," Ishman said, "because the applications have become interchangeable. The fact is that technologies have tended to merge." Today the IEEE has 33 technical societies, all of which provide access to state-of-the-art information through meetings



Neal H. Ishman, Vice President of Advanced Development, posing with his Chairman of the Northern Virginia Section plaque awarded to him by the IEEE at the April banquet.

and conferences in various areas of interest. The IEEE is split into 10 national regions, filtering down into 251 local sections. The booming high tech industry in Washington, D.C. and Northern Virginia area has had an impact on the magnitude of the IEEE's operations in this region. "During 1984 the Northern Virginia Section received

an award for being the fastest growing section. I think this is indicative of both the high tech work done here as well as the people required," Ishman said.

There is no doubt that the IEEE is beneficial to all engineers and scientists. "I really think that anyone who is an electrical engineer should be a

NEAL ISHMAN Cont. on page 6

Security Spotlight

Most of us are not assigned a private secretary so when we need a typist to transform our scrawl into readable text, we sometime have to scurry to find a busy secretary who can take on this added burden. Upon finding an available secretary we leave the draft and return to our desk, deeply grateful that the urgent project will soon be completed.

But wait! What is the nature of the material? Is it classified? At what level? Is it compartmented or otherwise restricted as to access? Is the typist who is working on the paper cleared to that level or does he or she have current access? If the material is classified or compartmented, is it allowed in the area where the typing is being done? Have we committed a security violation and perhaps created a security compromise by the simple act of passing the paper to a typist not having the

appropriate credentials, or who is not seated in the appropriate area?

Secretaries and typists have all levels of clearances—from no clearance at all to the top level provided through security. Even secretaries and typists who have the proper level of clearance may not have approved access to specific material and thus are barred from working with it. It is the responsibility of each author to determine the classification of his material and to ensure that it is handled only by those with the correct security clearance and those who appear on the appropriate access list. *If in doubt, don't hand it out!* You may save yourself considerable embarrassment, bother and adverse official communications by following the simple rule—*Don't hand out classified information arbitrarily.* If there are any questions, consult the Security Manager for assistance.

MELPARTICULARS

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E-Systems Melpar Division

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Credit Union News

ANNUAL MEETING

The 12th Annual Meeting of the Melpar Employees Federal Credit Union was held in the Falls Church cafeteria on April 19, 1985. Beginning at 5:15 p.m., the meeting featured annual reports by: Stan Scalsky, Treasurer; Ben DeGroot, Credit Committee; Quinley Johnson, Supervisory Committee; and Bill Mitchell, President of the Board of Directors. Mr. Mitchell's report was highlighted by a color slide presentation.

The results of the recent election of officers were presented. The three people elected to the Board of Directors are: Karen Jones, Gene Dake and Harold Tunick. Congratulations to the new Board members.

A drawing was held at the close of the meeting to determine the winners of the cash door prizes awarded at this year's meeting. First prize of \$200 went to Jody Kuendel and second prize of \$100 to James Guiliano. Congratulations to Jody and Jim.

AUTOMATION COMPLETED

April 1, 1985 saw another goal achieved and another milestone passed in the operation of the Credit Union. As of that date, your Credit Union went *on line* and became fully automated. This event enables the Credit Union to offer a greater variety of services to the members. With computer terminals in each office, the staff can now give you the current status of your account immediately, including the transaction you just made.

FULL TIME EMPLOYEE

In March of this year, Mrs. Susan M. Wilder joined the Melpar Employees Federal Credit Union staff as a full time employee. Susan has a background in financial institutions and will assume the duties of Credit Union manager. Welcome aboard, Susan.

TRAVELERS CHECKS

Going on vacation? Need *safe* money? If your answer is yes to these questions, stop in at the Credit Union office for your *safe* money — American Express Travelers Checks.

OFFICIALS OF THE CREDIT UNION

The Board of Directors for the Credit Union are: Bill Mitchell, President; Harold Marine, Vice President; Anne-Marie Eid, Secretary; Stan Scalsky, Treasurer; Gene Dake, Asst. Treasurer; Chris Coogan, Asst. Treasurer; Karen Jones, Publicity Chairman; Ethel Lorenzo, Member; and Harold Tunick, Member. The Chairman of the Credit Committee is Ben DeGroot and the Chairman of the Supervisory Committee is Quinley Johnson.

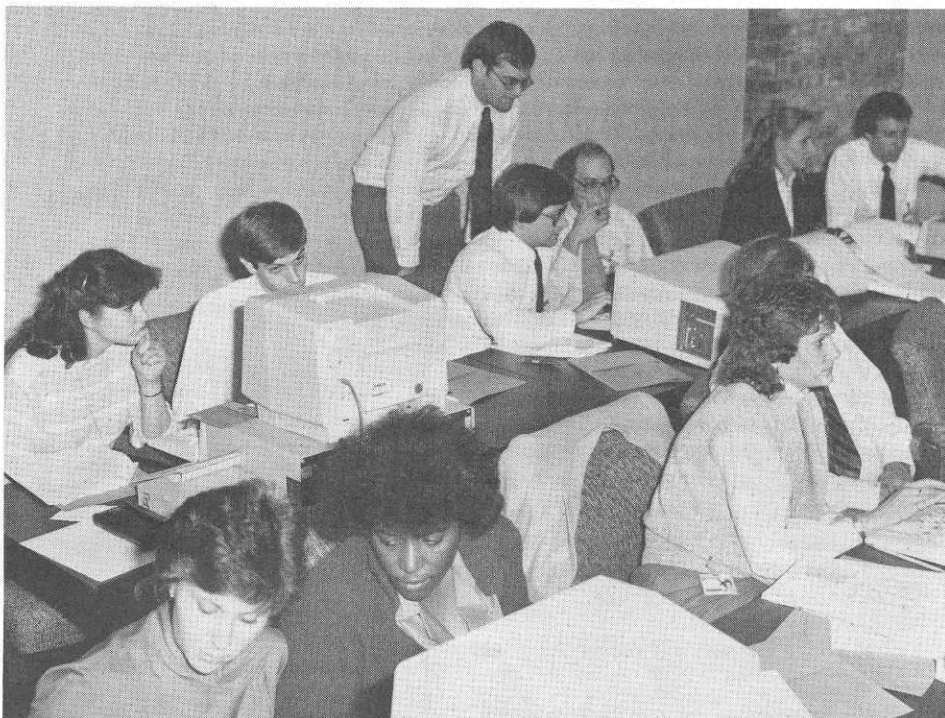
MICROCOMPUTER TRAINING COURSES AT MELPAR

In January, the Industrial Relations Department began offering a series of in-house microcomputer training courses. Introductory classes in Microcomputers, Lotus 1, 2, 3 and dBase III, as well as Advanced Lotus 1, 2, 3 have been taught thus far.

As the use of microcomputers increases, in-house training provides a vital link towards Melpar's technological expansion. The courses, taught to date by Bill Chambers of Chambers & Associates, are designed for Melpar employees. These microcomputer classes provide an opportunity for discussion of possible solutions to

specific Melpar applications, incorporating plenty of hands-on training for the participants. These courses also cover a variety of topics to familiarize the users with the concepts and terminology, file creation, command structures, data management, and specific applications of each software package.

Effective in-house training extends the benefits of custom-designed classes to more employees than would be possible by individuals attending off-site seminars. Approximately 150 employees, including supervisors, cost analysts, budget analysts, etc., have attended the classes this year.



Instructor Bill Chambers working with E-Teamers during one of the microcomputer classes offered at Melpar this year.

SLEEPING DISORDERS

How often do you experience that unpleasant sensation of being ready for bed, hopping in and curling up under the sheets, and realizing you are wide awake or simply cannot get to sleep?

Don't feel alone. We all have nights when sleep either won't come or takes some troubling form. If such nights are only occasional, they probably are trivial. On the other hand, if lack of sleep or some sleep irregularity is interfering with your normal functioning, you may be suffering from a sleep disorder. If so, you need professional

evaluation and treatment.

You should be alerted to a possible problem if you find yourself suffering regularly from any of the following symptoms:

- Daytime sleepiness
- Chronic inability to fall asleep for long periods, especially if it results in excessive use of sleeping pills.
- Nighttime chest pains and/or morning headaches.
- Heavy snoring and/or breathing irregularities during sleep.

SLEEP Cont. on page 4

Know Your Benefits... RETIREMENT PLAN

E-Systems' Retirement Plan is designed for the protection and well-being of our employees and their families. The plan is structured to provide an equitable means for helping assure financial security for retirement. Recently, several improvements were added to the plan by the E-Systems Board of Directors. The following information is a description of the current Plan benefits. The changes are summarized in the box.

You are automatically a member of our retirement plan if you have worked at least 1000 hours each year of employment with E-Systems and were less than 60 on your date of hire, and are at least 21 presently. You are vested in your pension benefits after you have completed 10 years of service with the Company. You can receive those benefits as early as age 55, if you choose early retirement.

Since your pension credits increase year by year and relate to your salary, the longer you are in the plan and the more you earn, the larger these benefits will be. The plan bases its benefits on your average monthly pay, i.e., the average of your highest paid 60 month period. There are two basic formulas that can be used in determining your monthly retirement benefits. The formula that yields the greater amount will be used:

BASIC FORMULA

$(1\frac{1}{2} \times \text{average monthly pay} \times \text{years of service})$ minus $(\frac{1}{2}\% \times \text{social security} \times \text{years of benefit service})$.

MINIMUM FORMULA

$\$12 \times \text{years of service (after August 1970)}$.

Your benefit is computed in conjunction with your social security bene-

fits that are paid to you in addition to the retirement. Social security taxes, which you pay as an employee of E-Systems, are matched in equal amounts by the Company. You are eligible to receive your full social security and retirement benefits at age 65. One of the more unusual aspects of E-Systems Retirement Plan is a provision to provide income to your surviving beneficiary. You have several options at the time of retirement on how to receive your pension:

- Life-Only, Monthly Annuity - Pays benefits only during your lifetime.
- Five Years/Ten Years Certain and Life Monthly Annuity - Pays benefits during your lifetime and five or ten years after. Pays the same benefit to your beneficiary.

- 100% Joint and Survivor Monthly Annuity - Pays benefits during your lifetime and the same benefits to your surviving spouse.

- 50% Joint and Survivor Monthly Annuity - Pays benefits during your lifetime and 50% of that benefit to your surviving spouse.

- 66 2/3% Joint and Last Survivor Monthly Annuity - Benefits paid during the lifetimes of you and your spouse; the survivor receives 2/3 of the benefit paid while both are living.

For information about these options check your retirement plan booklet. Louise Hobbs or Evy Lowenstern in the Industrial Relations Department will be glad to provide answers to your specific questions not covered by the retirement plan booklet.

RETIREMENT PLAN CHANGES

1. You will now be credited with vesting service dating back to August 1970, or your date of hire, if later. You will be credited with these years of service whether or not you contributed to the old Melpar plan.
2. If you contributed to the old Melpar Pension Plan any time from August 1970 through December 1979 and have not withdrawn those funds, all contributions plus interest were paid to you in February. You will receive an IRS form 1099 to report the interest earned on the money you contributed.
3. All permanent full-time E-Teamers will become participants in the retirement plan at age 21 instead of age 25.
4. The first year of employment will now be included in calculating retirement benefits. The first year was previously excluded as a benefit year.
5. The definition of average monthly compensation has been changed from the highest five calendar years to the highest 60 month period.

These changes will mean a higher retirement benefit for all E-Teamers and will provide an opportunity for those who have contributed to the old plan to accumulate additional retirement incomes.

SLEEP Cont. from page 3

There can be a great deal of variation from one person to the next in what constitutes healthy, normal sleep. Sleep needs also change with age. While most adults need seven or eight hours sleep each night, some people need four or fewer and others need ten or more. Often the key to determining whether the amount of sleep you are getting is sufficient and whether it is a healthy sleep is how you feel during the day. If you find yourself falling asleep at times when you normally should be able to stay awake, if you experience muscular weakness, hallucinations or if you simply don't feel well after a night's sleep, you should seek help.

Listed below are some areas many sleeping disorders fall into:

INSOMNIA - This prolonged inability to fall asleep may be caused by many conditions including depression, stress, noise, breathing disorders, and pain. Even the overuse or misuse of sleeping pills can cause insomnia or daytime sleepiness.

DISRUPTED SLEEP-WAKE PATTERNS - This is a common problem with shift workers and others who experience constant or significant disruptions in their sleep-wake schedules. They may experience difficulty in resuming appropriate sleep schedules and may suffer insomnia or daytime sleepiness.

SLEEP APNEA AND SNORING - Oc-

casional or light snoring may be trivial. Chronic, heavy snoring may be a symptom of sleep apnea, a disease in which sleeping persons stop breathing many times during the night. Symptoms can include excessive daytime sleepiness, high blood pressure and heavy snoring.

Most sleeping problems can be treated or controlled once they are diagnosed. Treatments include medication, schedule changes, weight loss, surgery and counseling.

If you believe you suffer from a sleep disorder, there are several ways to get information and help. Talk to your family physician about referral to a sleep disorder specialist or center.

From Health Talk Fairfax Hospital

RPV AND PHYSICAL SECURITY SENSORS DISPLAYED IN PARIS

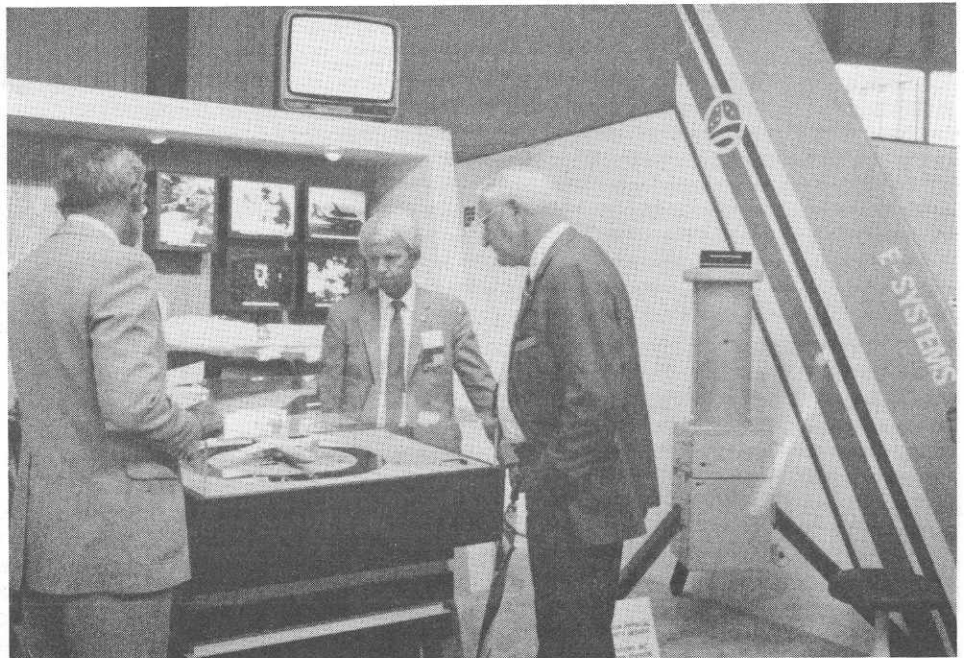
A full-size model of the E-310, Melpar's new Remotely Piloted Vehicle (RPV), and two Physical Security Sensor models were featured in the E-Systems display at the Paris Air Show, May 31 through June 9.

The E-310 fuselage is 12 feet long with a 14-foot wing span. Capable of using either real-time or pre-programmed control, the vehicle's flight endurance is in excess of five hours. In Paris, the RPV was displayed in its reconnaissance configuration, with a remotely controlled TV camera and monitor.

A full-scale model of Melpar's Exterior Physical Security Sensor and a scenario model depicting an intrusion sequence were also displayed.

Representing Melpar at the Paris Air Show were Greg Cox, Dan Nickell and Joe Zablotney.

The 1985 Paris Air Show was the 36th since the first one took place in 1909. This year's show attracted over 1,000 companies from 30 countries.



John W. Dixon, Chairman and Chief Executive Officer of E-Systems, Inc., (right) reviews Melpar's new Physical Security Sensor scenario model with E-Systems Brussels office representatives Warren Austin (left) and Frank Parker (center) at the Paris Air Show.

MRSS TRAINING Cont. from page 1

MRSS sensor, the USAF sent two senior level training instructors to participate in the training program co-ordinated by Dave Jackson, Melpar Educational Specialist. A technical representative from Sandia National Laboratories attended the seven-day training program as well. Physical Security Lab Engineers Steve Floyd and Bill Moore instructed this course which consisted of detailed technical lectures and extensive laboratory training.

According to Dave Jackson, the goal of Melpar's training efforts is to ensure that customer personnel are qualified in the operation and maintenance of the systems that are produced. Training is specifically tailored to fit the product, its application, and the customer's needs. Historically, product engineers have served as instructors, facilitating the one-on-one contact between the customers and the designers. "This approach to training works very well for programs conducted one time," Jackson said.

The MRSS represents the latest in the current level of sophistication of physical security sensors. The MRSS is unique in that it is a range gated Doppler radar, incorporating a high degree of signal processing. In addition, the MRSS provides a very low nuisance alarm rate in both interior (fixed) and exterior (mobile) configurations of the system. The MRSS constantly monitors its mechanical and electrical status and key operating parameters providing full self-test ca-

Library Up-date

As a service organization, a library finds it is sometimes prudent to contract for outside services to provide the capability needed by you—the user. The Melpar technical library uses several of these services.

The Library of Congress (L.C.) catalog card system is the most extensively used service. Studies have proven that the cost of individual cataloging efforts are more expensive than a set of main entry cards purchased through the L.C.. Libraries are then able to simply type the subject heading onto the set, while controlling the level of cataloging. These cards are done according to Anglo-American cataloging rules (AACR II).

Another contracted service is on-line search services. Instead of large, bulky and expensive indexes, a small compact terminal can provide quicker, timelier references at the cost of several pennies. The data base that can

be accessed covers a wide range of subjects, including business topics and engineering material. There are also government sources of information that may be searched at little or no cost.

Interlibrary loans can also be procured by a service-oriented on-line data base. The OCLC joint cataloging system is a service that locates material at subscribing libraries. For the user's convenience at the present time, the State Library in Richmond has an 800 number that can be used to find book locations. They will locate up to five titles a week for other libraries in the state. So, in effect, a person has access to all other participating libraries in Virginia.

The library operates as any other organization contracting out for needed services that prove more cost-effective than the library itself can provide.

pability. As training course instructor Steve Floyd explained, "In essence the MRSS places an electronic ring around whatever it is protecting; it creates an electronic fence using radio waves." The MRSS has been designed to take full advantage of Melpar's newly acquired automatic component insertion and other automated production equipment.

The importance of training in respect to operation and maintenance of physical security sensors is fundamental to achieving optimum performance of these increasingly sophisticated systems. Melpar's training courses fulfill this need and allow these systems to maintain their high reliability wherever they may be used.

NEAL ISHMAN Cont. from page 2

member of the IEEE. I've felt that way since I was a student in college," Ishman stated. Indeed, he joined the IEEE as a student member at Penn State. More recently, while serving as chairman, Ishman outlined several points he felt paramount for the career growth of young engineers. "The ability to write clearly and logically is one of the things I stressed, along with the ability to communicate effectively in general discussions. Another thing that I felt was important is a sense of time urgency for engineers—deadline pressure."

One of the things the IEEE offers from around the world is a synopsis of publications and open literature. Ishman explained that, "Because of the rate of information explosion, a person may completely bypass some work which could be directly applicable to, let's say, some work done right here at Melpar." No doubt, due to the incredible expansion of technology, the ability to use newer tools in search of information has become crucial. The IEEE is constantly working with state-of-the-art application and advanced theory, helping shrink the time lag between innovative discovery and the dissemination of theory. "There is definitely an information/computer revolution presently going on," Ishman said. "Recent statistics show that 1 out of every 3 IEEE members today belongs

to the computer group," he pointed out.

The IEEE actively promotes means for further technological development through meetings, conferences, university lectures, and intermittent technical shows and symposiums. Ishman commented that his affiliation with the IEEE has required hard work, but it has all been worthwhile and very applicable to his professional/personal enhancement. "It is very useful and refreshing to interact with people who have varying sets of similar problems.

It lets you look at things from a different perspective. It can allow you to do something very creative and very different," Ishman said.

After joining the IEEE, a person may also become involved with any of the 33 societies that are specialized in diverse technical areas. Ishman concluded by saying, "It is *the* professional electrical engineering and scientific organization and it is recognized as such."

STOCKHOLDER'S MEETING Cont. from page 1

talked about the recruitment efforts of the various divisions and spoke of the success of college recruiting. He also mentioned improvements in the Flex-comp programs, specifically retirement benefits. From an international perspective, Dixon mentioned military and/or economic "hot spots" around the world, saying the U.S. Government will have an increasing need for sophisticated surveillance equipment to help in enabling it to fulfill its role as "peace keeper" throughout the world. In concluding his speech, Dixon reviewed the E-Systems stock performance and congratulated the Board of Directors of 1984 for their 99%

attendance record. In his final statement, he described E-Systems as being "in very sound condition".

Melpar Representative Annette Clark commented on how impressed she was with the organization of this year's meeting. After the special luncheon held for all Communication Council representatives, Clark and Goble were driven back to the airport. Both Melpar Communication Council members had high praise for the attention they received in Dallas from the corporate representatives. The trip provided them with a broader perspective of the workings of E-Systems.



Shown with other division Communication Council members in Dallas are Melpar representatives Barbara Goble (left) and Annette Clark (center).

MELPAR/GWU OFFER NEW MASTERS PROGRAM

Graduate level courses in the Master of Science in Communications (EE) and in the Master of Science in Computer Science (CSci) programs for the fall semester will continue to be offered by the George Washington University's School of Engineering and Applied Science. In addition, prerequisite courses will be offered for a Master of Engineering Administration (MEA) program designed to prepare engineers, scientists and mathematicians to be high-quality managers of research, engineering, and technically oriented organizations.

The proposed schedule of Fall Semester 1985 courses at Melpar's Falls Church facility is listed by degree program:

Master of Engineering Administration

- EAD 150 Introduction to Engineering Administration (Thursday)
EAD 160 Introduction to Engineering Economic Analysis (Tuesday, Dr. Steiner)

Master of Science in Communications/Computer Science

- EE 204 Stochastic Signals and Noise (Tuesday)
EE 241 Information Theory (Thursday, Dr. Crepeau)
EE 243 Communications Theory (Tuesday, Dr. Pickholtz)
EE 246 Digital Communications (Wednesday)
EE 249 Computer Communication Networks II (Monday, Dr. Aien)
CSci 227 Management Information Systems and Database Management (Wednesday, Dr. Scharen-Guivel)
CSci 239 Comparative Computer Systems (Thursday)

For the Masters of Engineering Administration program, individual academic counseling will be scheduled at Melpar from 9 a.m. to 4:30 p.m. on July 23 and July 25, and registration will be from 5 to 7 p.m. on Thursday, August 29. For academic information call the GW MEA faculty advisor, Professor Terry Lynch, at 676-3653.

For the MS programs in Communications (EE) and Computer Science (CSci), registration will be held at Melpar between 5 and 7 p.m. on Tuesday, August 27. Professor Pickholtz will be available for individual academic counseling during registration.

Fall semester classes will begin on Tuesday, September 3 and end on Monday, December 16. All classes will meet one evening per week from 6 to 9 p.m. For general assistance on ad-

PROMOTIONS — MARCH AND APRIL

From	To
E.F. Barr, Jr	Programmer
R.L. Beal	Porter
S.D. Beale	Planning Aid
B. Bell	Software Methods Spec
J.D. Bigelow	Programmer
A.L. Brewer	Jr Elec Eng
J.C. Bryant, Jr	Jr Cost Analyst
E.L. Carmichael	Porter
P.L. Carter	Report Typist
I.M. Charnley	Report Typist
C.J. Chausse	Sr Software Analyst
R.A. Collins	Admin Asst
W.R. Cragnell II	Machine Oper
E.I. Crim	Planning Asst
K.M. Culbreath	Data Control Clerk
M.D. Dokken	Sheet Metal Mech 2cl
T.C. Donohue	Jr Programmer
R.R. Early	Sr Cost Analyst
C.J. Eby, Jr	Software Analyst
J.B. Farquhar	Elec Eng
R.W. Flynn	Sr Software Analyst
J.E. Fowler, Jr	Sr QE Eng
D.M. Garner	Planner
Y.M. Garner	Assem
R.C. Garvey	Sr Software Analyst
B.J. Heimbrook	Assoc Defense Analyst
D.P. Herod	Programmer
L.C. Hower	Planning Asst
C.A. Jackman	Personnel Repres
Y.K. Jarm	Sr Drafter
J.M. Jessup	Programmer
J.T. Kovacs	Detailer
C.C. Kuhstoss	Planning Aid
R.B. Lavery	Jr Cost Analyst
D.M. Lussier	Accounting Clerk
M.D. McHugh	Sr Software Analyst
R.J. Meck	Jr Programmer
D. Miller	Cost Analyst
R.R. Muldrow	Assem
L.T. Murias-Brown	Accountant
D.M. Overstreet	Sr Elec Eng
E.P. Poole	Sr Report Typist
F.L. Reese	Report Typist
E.P. Robinson	Software Analyst
A.L. Ross	Assem
S.A. Salyers	Planning Aid
D.L. Samuel	Personnel Clerk
J.L. Sastri	Systems Eng
E.J. Schoeneman	Logistics Aid
A.M. Simmons	Config Control Spec
K.L. Snow	Mail Clerk
M.C. Swedenburg	Sr Cost Analyst
G.L. Taylor	Cost Analyst
L.R. Terry	Sr QC Eng
T.T. Throop	Elec Eng
B.J. Tinner	Drafting Aid
S.L. Vagnoni	Tele Maint Tech
R. Velez	Metrology Tech
W.M. Vollert	Asst to Security Mgr
C.P. Wager, Jr	Maint Mech 2cl
R.E. Warakomsky	Sr Systems Eng
C.L. Watson	Eng Aide
S.F. Whitaker	Sr Met Tech
E.G. White	Drafting Aid
S.M. Wilson	Clerk A
P.I. Young	Jr Cost Analyst
	Software Analyst
	Maint Asst
	Planning Asst
	Config Control Supv
	Software Analyst
	Design Eng
	Cost Analyst
	Lead Porter
	Sr Report Typist
	Sr Report Typist
	Prin Software Analyst
	Facilities Planner
	Sheet Metal Mech 2cl
	Planner
	Sr Data Control Clerk
	Sheet Metal Mech 1cl
	Programmer
	Prin Cost Analyst
	Sr Software Analyst
	Sr Elec Eng
	Prin Software Analyst
	Prin Qual Eng
	Planning Spec
	Assem 1cl
	Software Supv
	Oper Analyst
	Software Analyst
	Planner
	Sr Personnel Repres
	Design Eng
	Software Analyst
	Drafter
	Planning Asst
	Cost Analyst
	Logistics Asst
	Supv Software Eng
	Programmer Asst
	Sr Cost Analyst
	Assem 1cl
	Sr Accountant
	Prin Eng
	Jr Program Mgmt Asst
	Sr Report Typist
	Sr Software Analyst
	Assem 1cl
	Planning Asst
	Sr Personnel Clerk
	Sr Systems Eng
	Jr Eng Asst
	Sr Config Mgmt Spec
	Library Clerk
	Cost Analysis Supv
	Prog Mgmt Spec
	Prin QC Eng
	Sr Elec Eng
	Data Entry Oper
	Sr Tele Maint Tech
	Sr Metrology Tech
	Security Mgr
	Maint Mech
	Asst Prog Mgr
	Eng Tech 2cl
	Jr Metrology Eng
	Logistics Aide
	Data Entry Oper
	Eng Asst

ministrative matters, please contact the GWU Program Coordinator, John Williams at 676-7029.

MELPARTICULARS

needs your input. Submit material to

Anne-Marie Eid, ext. 2717

Sports Corner

BUSHWACKERS — THE EARLY BIRD CHAMPIONS

The Melpar Bushwackers men's softball team has been in existence for two full seasons and is now working on their third season. At the beginning of each season the League has a pre-season tournament. The tournament is held over a two-day period. Bracket play takes place the first day and the teams that hold the best record go on to the second day of play. During the second day, double elimination occurs.

The Bushwackers first *Early Bird* tournament proved a disappointing experience. But during the second tournament the Bushwackers started picking up. By the Bushwacker's third time around, however, they outdid themselves. The team opened the first day by destroying the St. Louis Knights with a score of 21 to 1. The Bushwackers then proceeded to roll over the rest of the teams in the brackets by scores of 11-4, 11-2 and 12-0.

After the second day of play-offs, the Bushwackers were left with one team to contend with for the *Early Bird* championship. The C&P Telephone softball team was the victor of the loser bracket and had to beat the Bushwackers twice to win the championship.

C&P came out hot with five straight hits, but super plays by Jerry Coffey, Danny Villani and Tom Hubicz held C&P to one run. The Bushwackers came back with one run to tie it in the bottom of the first. The game became a defense struggle with the score seeing-sawing back and forth. Then, in the bottom of the seventh, the Bushwackers loaded the bases with an error, a base hit and a walk. Rob Kimble came to bat with no outs and the bases loaded. Kimble's line-drive on the first pitch to left field scored a championship-winning base hit.

The Bushwackers finished with a perfect 8-0 record for the *Early Bird* Championship. This season should prove to be an exciting one for the Melpar Bushwackers. Good Luck!.

WARM WEATHER SETS OFF RUNNING FEVER ONCE AGAIN

Anyone interested in running 30 kilometers with fellow E-Teamers on weekends, please contact Mike Long on extension 2885 or Pat Stewart on extension 2518.



Bushwacker team members standing from left to right are: Chet Olive, Robert Kimble, Jeff Hamlin, Gary Villani, Lou Klepec, Rick Olive, Jerry Coffey, Tom Dresdner and John Hall. Kneeling from left to right are: Danny Villani, Rick Hines, Marty Cunningham, Jerry Twombly, Charlie Jones, Tom Hubicz and Chuck Wager.

BOWLING FINALS

With the final week of bowling behind us, we can all put our bowling gear away and relax on Thursday nights. The first place team, the Go-Getters, consisted of Art Beverly, Hazel Cockrell, Sally Gentry, Buff Jackson and Gerry Johnson. The remaining eleven teams are listed in the order that they finished: Midnight Express, Hell Raisers, Pinheads, Hadtahavits, Hokies, 7 Jaws + 1, Hot Shots, Ball Busters, Night Owls, Y Not Nine, and Polish Express.

The bowling banquet was held at the Elks Lodge on May 31 with a buffet dinner, an awards presentation and dancing. At the banquet, next year's officers were elected. The new officers are Art Beverly, President; Ray Wills III, Vice President; and Laverne Boyd, Secretary/Treasurer. Thanks were extended to the banquet committee — Bill Engel, Barbara McFarlane, and Joan Schafer; and also the trophy committee, Joe Pinto and Chuck Davis for their help.

10th ANNUAL MELPAR PICNIC

- Music
- Basketball
- Volleyball
- Softball
- Horseshoes
- Ping Pong
- Air Show
- Ponies
- Hayrides
- Clowns
- Balloons
- Moon Bounce
- Silver Dollar Hunt

Sunday, July 14

Smokey Glen Farm

Barbequed Chicken Dinner

Look for volleyball and softball team sign-up sheets posted on the bulletin boards. Volunteer coordinators will be needed for all the events. Please contact Anne-Marie Eid on extension 2717 if you will assist.

