

digital

MAYNARD

DIGITAL THIS WEEK



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Understanding and valuing differences through Core Groups

Understanding and valuing differences between individuals, such as race, sex or handicaps, is a priority for many employees at Digital. Beginning in 1979, a forum of Core Groups was developed to discuss the issues surrounding individual and cultural diversities. Since that time, employees have been starting new Core Groups, and there are currently about 40 active groups.

The need to identify and discuss differences was initially identified by white male managers in manufacturing who realized that these issues needed to be understood in order for them to be effective leaders of an increasingly diverse workforce.

"The premise of Core Groups is to raise awareness, increase understanding and value differences. The ultimate goal is a high-level of productivity and full utilization of our total workforce within the company," says Lee Hayes, group Personnel manager for Storage Systems. An important strategy and outcome of Core Groups

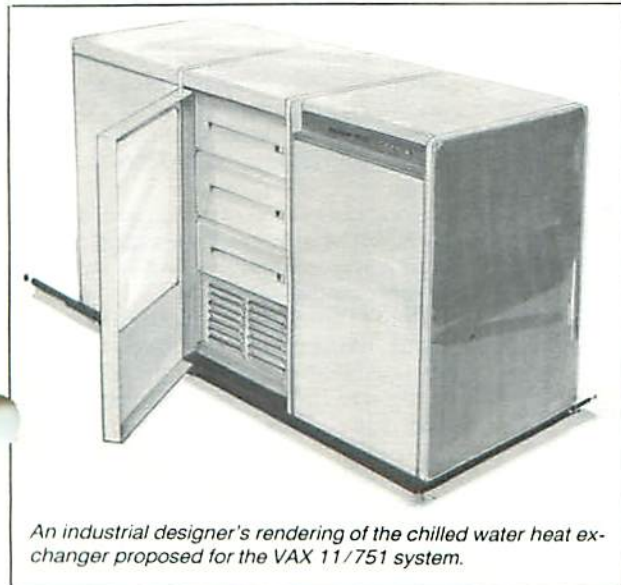
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Members from 31 Core Groups in Manufacturing/Engineering met recently during the first Affirmative Action Leadership Day held by Digital at Brandeis University in Waltham.

MIT developing new cooling method for VAXs

Recognizing that using chilled water lines to cool computers is potentially less expensive, reduces noise and improves comfort control, a prototype for a chilled water heat exchanger for a VAX 11/750 is being developed at MIT. The current cooling process involves the circulation of cooled air.



An industrial designer's rendering of the chilled water heat exchanger proposed for the VAX 11/751 system.

The project is being funded by Project Athena, a major educational experiment undertaken by MIT in collaboration with Digital and IBM to achieve significant advances in engineering education.

MIT professor Thomas Bligh proposed the concept of a self-contained unit, which includes the mainframe computer and the chilled water heat exchanger, to his dean of the School of Engineering in June of 1983.

According to John Bartoszek, principle engineer with Thermal Engineering at the Mill, tests have been completed on the prototype which is constructed of plywood and houses a VAX 11/750 system. Efforts are well underway to utilize the concept to cool six VAX 11/751 systems that will be located in the basement of a building at MIT where there is currently no air conditioning system installed. These systems are being designed under the direction of Dave Dalrymple, Design engineer in Action.

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Digital sponsors Job Opportunity Showcase at Urban League convention

For the fourth year in a row, Digital sponsored a Job Opportunity Showcase at the Urban League's 1984 national convention held in Cleveland, Ohio last month where more than 15,000 people attended.

At the mini-job fair, locally hired data entry personnel input 750 job orders from exhibiting Fortune 500 companies, and more than 1000 resumes from conference attendees. Digital's Zella Edwards, Information Resource manager, Corporate Distribution is one of the primary coordinators of the Job Opportunity Showcase this year. "Through the Job Opportunity Showcase, Digital has been successful in giving company representatives the opportunity to connect with qualified individuals," Zella says.

As a socially responsible company, Digital supports the Urban League, an inter-racial, non-profit community service organization which tries to secure equal oppor-

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Digital donates to Home for Children

Forty Digital employees went on a Boston harbor cruise recently in order to raise money for the Nazareth Home for Children in Jamaica Plain. The Digital Matching Gift program doubled the employees donation of \$400 to the home for boys and girls.

Father Francis Murphy, general counsel at the Nazareth Home for Children and professor at Boston College, worked with Digital's Technical Support manager Rich Colarusso, Technical Support specialist Bill Griffin and non-Digital employee Ray DeVasto to organize the fundraising event.

Digital's Matching Gift Program matches employee donations, from \$10 minimum to \$1,000 maximum, on a dollar for dollar

basis, so organizations deemed worthwhile by employees may be benefited and supported.

The program matches gifts to educational, cultural, social services, and hospital/-health agencies and is open to permanent employees, retirees, directors, as well as spouses.

In addition to funding received from Digital and its employees, the Nazareth Home for Children was given computer time from a Digital Original Equipment Manufacturer, Service Information Systems, so the children's home may keep a record of ongoing events.



(left to right) Digital's Technical Support manager Rich Colarusso and Technical Support specialist Bill Griffin from the Western and Central States Area Management Center group, giving Father Francis Murphy funds from Digital employees for the Nazareth Home for Children. Non-Digital employee Ray DeVasto (right) helped coordinate the harbor cruise to raise money for the children's home.

Virginia Polytechnic receives \$600,000 hardware and software grant from Digital

Virginia Polytechnic Institute and State University has been given a \$600,000 hardware and software grant from Digital. The agreement will provide the university with 100 personal computers to increase the level of computer literacy among non-traditional users.

Faculty from a variety of academic disciplines will use the Rainbow 100 and DEC-mate II personal computers to develop

courseware. The personal computers will also be used for instruction in conjunction with a VAX cluster in the computer center, as well as to facilitate research activities on two VAX 11/785 computers purchased by the university. Fields of study in which the computers will be used include business, liberal arts, engineering, and agricultural sciences. One of the first applications will be a course in FORTRAN for non-technical students.

"We are pleased by the opportunity to make further improvements in our computing environment that Digital has provided," said Provost David D. Roselle, Virginia Polytechnic. "Digital has been a significant participant in the university's development into a national leader and we welcome a continued partnership."

"Digital's investments in education are part of an on-going commitment to increasing computer literacy and the quality of educational computing," said Digital's Bob Trocchi, manager, Educational Computer Systems. "With such a high level of computer expertise among Virginia Polytechnic's faculty, we are confident that the university will develop many innovative computer applications."

CAEM has marketing agreement with Synercom Technology

The Computer Aided Engineering/Marketing (CAEM) group has announced another Cooperative Marketing agreement with Synercom Technology, Inc. of Sugar Land, Texas, a leading manufacturer of software for the earth resources and mapping vertical market. It is the group's second venture with Synercom.

For the first time, the benefits of automated Geographic Information Systems (GIS) and Mapping Information Management Systems (MIMS) have been combined in a single system called EMIS® — an Environmental Mapping Information System.

In partnership with Digital, Synercom is marketing this new VAX/VMS-exclusive product after the successful joint marketing venture of Synercom's INFORMAP II® specialized graphics mapping system during the past year. The new EMIS product is a sophisticated, highly-advanced cartographic-quality geographic information management system.

Typical applications for the new EMIS software include natural resources management, urban and regional planning, optimal facilities siting, land use analysis, forest management and planning, socio-economic studies, environmental assessment, transmission line siting, market surveys and the integration of classified remotely sensed data.

EMIS and INFORMAP II are trademarks of Synercom Technology, Inc.

Design of applications under VAX/VMS

October 9 - 12

This course is intended for experienced programmers with VAX/VMS user level skills who wish to acquire or improve application design techniques; VAX/VMS application designers or system programmers who wish to broaden their skills and their design experience; application designers familiar with skills using VAX/VMS systems.

Upon completion of this course, the students will be able to improve upon design productivity through an effective increase in applications experience.

Prior to taking this course, the students should have successfully completed the VAX/VMS Utilities and Commands course and one of the VAX/VMS programming language courses.

To enroll, call Digital Information Systems (DIS) Registrar at DTN 249-4670. For more information or course description call DTN 249-1461.

DIGITAL THIS WEEK



Editor: Jane Littlejohn

Send stories, photos, ideas or suggestions to DTW, CFO2-3/K23 or call the editor at DTN 251-1307. Ads must be submitted in writing to Marketplace, CFO2-3/K23. Please direct all Marketplace inquiries to Jennifer Hawes at DTN 251-1308.

Digital This Week is published every other week by the Corporate Employee Communication department of Digital Equipment Corporation for the Employees in the Greater Maynard area.

Students from Corporate Minority Education Program meet with managers

The Corporate Minority Education Program sponsored a reception recently for students employed in Digital's Maynard area this summer. This reception gave students an opportunity to meet program committee members, managers and other members of the Digital community in a semi-formal, non-working environment.

Three vice presidents addressed the students and emphasized that they had made a valuable contribution to the corporation during the summer. Jack Smith, vice president, Manufacturing and Engineering; George Chamberlain, vice president, Manufacturing and Engineering Finance & Administration; and John Sims, vice president, Corporate Personnel; urged the students to continue to excel in their chosen academic disciplines, and to keep Digital in mind for the future.

The 53 students in attendance at the reception were Digital scholars and also students who had been recruited at career fairs sponsored by national organizations such as the National Society of Black Engineers, the Society of Hispanic Professional Engineers and the American Indian Science and Engineering Society.

Richard White, Reinaldo Perez and Franklin Hooker, three graduating seniors who have been scholarship recipients since the inception of the program, presented a plaque to George Chamberlain and Nancy Dube, manager of Corporate Community Relations, to express the students' appreciation of the Corporate Contributions Committee support provided through the years.

The goals of the Corporate Minority Education Program are to help increase the number of minority engineers and computer science graduates and to culti-



Richard White, electrical engineering student at Lowell University gives plaque to Nancy Dube, manager of Corporate Community Relations and George Chamberlain, vice president, Manufacturing and Engineering Finance & Administration, to express the students' appreciation for the support provided the Corporate Minority Education Program by the Corporate Contributions Committee.

vate a pool of minority candidates from which Digital can hire.

To carry out program goals, Digital provides scholarships to students, gives educational institutions equipment allowances, offers training and development to faculty, and makes advice available to university administrators.

This year, the program sponsored 76 electrical, mechanical engineering, computer science and business students. These students were recruited from 20 universities across the nation, among them were: Atlanta University; Georgia Institute of Technology, North Carolina A&T, MIT, RPI, WPI, Arizona State University and

Stanford University.

The program has had two graduating classes and Digital has hired one-third of these graduates. Says Serge Paul-Emile, Program manager, "The students who have been here this summer indicated they had a meaningful experience and want to seriously consider Digital for employment. In addition, more managers are realizing that the program provides them the least expensive and yet the most efficient way to identify minority college recruits."

For more information on the Corporate Minority Education Program, contact Serge Paul-Emile at DTN 251-1368 or at mailstop CFO2-3/K75.

Prince George's Community College and Digital form partnership

Prince George's Community College and Digital have entered into a partnership under which Digital will provide computer systems and other services in exchange for the college's participation in a training program.

Under the program, called the Minicomputer Technology Program (MTP), the college is to provide a sufficient number of trained service technicians to meet Digital's and other computer firms' future employment needs.

Prince George's Community College (PGCC) is the only college in Maryland, Virginia or Washington, D.C., selected to enter into such an agreement with Digital, making it one of only 23 nationwide that will produce trained service technicians under the company's program.

According to Mary Ellen Kiss, who coordinated the partnership arrangement for the college, "PGCC was selected because of its existing electronics curricula and faculty qualifications. Its geographic location in an area with a large number of computer

businesses was also a plus."

It is expected that the program will produce employees with skills to become productive after a minimum amount of time on the job, rather than the estimated 18 weeks it now takes. The program will lead to an Associate in Arts degree and is expected to be in place in fall, 1985.

In addition to equipment, Digital will provide the college's computer and engineering technology faculty with training at its Massachusetts and Landover facilities. Digital also will work with the college's faculty in developing curriculum content. Once underway, the company will assist in evaluating the effectiveness of the program.

Computer service technician skills are among those which are in greatest demand by the industry. Also, projections made by the Bureau of Labor Statistics for 1978 to 1990 indicate a 154 percent increase in available jobs for computer service technicians.

According to Dr. Robert I. Bickford,

president, Prince George's Community College, "This partnership between the college and Digital will go a long way in ensuring that the needs of County businesses are met."

New York CPAs contract for Rainbows

The New York State Society of Certified Public Accountants has contracted with Digital to supply Rainbow personal computers for the Society's continuing education programs. Digital is working with the Society to develop computer training courses for the state's 27,000 CPAs.

New York is the only state society to have a permanent computer training facility for its members. The CPAs will be trained on how to use the Rainbows' electronic spreadsheet programs for financial analysis, and will also learn how to use the Rainbow for tax planning and preparation, time and billing procedures, and management of informational databases.



Jordan Marsh of Boston recently used Digital personal computers, two Professional 350s and a Rainbow, in a WHIZ KIDS back-to-school clothes promotion. Digital employees from the Pro group, Boston Sales office and Corporate Marketing Services combined efforts to provide the equipment for the window display.

Network Northeastern comes to Marlboro

Following the precedent set by the Hudson and Andover sites, Network Northeastern University (NNU) is coming to Marlboro this September.

NNU is a new high technology approach to higher education. It provides state-of-the-art professional development for employees interested in working toward a master's degree in electrical engineering. NNU in Marlboro will be sponsored by the LVE/LSIG Training and Education Group.

The network utilizes a microwave based transmission whereby classroom instruction is telecast "live" to remote sites with TV monitors and a telephone talkback system. The television method and real-time interaction allows students to participate as fully in the instruction as those sitting in the originating studio classroom.

Graduate level electrical engineering courses are offered during daytime hours on a credit or audit basis; state-of-the-art engineering courses are available on a non-credit, certificate basis. Additionally, a

courier service is provided to collect and deliver homework assignments, and to serve as the student's link to the bookstore, registrar, and other campus services.

Registration is on September 17, with courses beginning on September 24. Electrical engineering courses include Applied Probability and Stochastic Processes, Classical Control Theory, Digital Computer Architecture, Linear Active Circuits, Linear Systems Analysis, Mathematical Methods in Electrical Engineering, and Software Engineering.

State-of-the-art courses will include Introduction to Solid State Principles, C Programming, Introduction to Data Communications Systems, and Introduction to Artificial Intelligence.

For further information on costs, schedules, classroom locations, or registration procedures, contact Chris Rudomin at 231-6769.

Introduction to I.C. Layout - CMOS

22-26 October 1984 and
29 October - 30 November 1984
VLSI Training Room, HLO1, Pole N07
Instructor: Bob Hicks. Digital

Week 1 of this course is designed to train people with no electronics experience to perform entry level layout tasks which include translating schematics to layout, block planning, etc. Week 1 is an intensive introduction to most aspects of entry level layout, intended to give the student a basic understanding of I.C. layout. Two hours of lecture will be conducted daily during the afternoon. An additional two hours of homework will be collected and graded each day.

During weeks 2-6 of the course the stu-

dents will apply their knowledge from week 1 and be required to do layout and hand in a layout project at the end of the eight week period. Throughout this portion of the course, Bob will present a four hour lecture each day.

Prerequisites: Week 1: none. Week 2: successful completion of week 1, Introduction to I.C. Layout - CMOS.

Enrollment: Courses will be filled in the order that completed registration forms are received. This course will have a limited enrollment of 20 students.

Date/times/site: The course will be held from 22-26 October for 2 hours each afternoon, plus time for homework; weeks 2-6

New Office Automation courses for October

ATHENA/graph®

Learn how to manipulate ATHENA/graph's operational features so that you can create pie, bar, and line charts on the Professional 350. Participants will also be able to transfer charts between professionals via floppy diskettes. Prerequisites: Basic User Operations for the Professional 300. October 10; October 29

MS-DOS®

Intended for users of MS-DOS applications programs who want to become more familiar with this operating system on the Rainbow, participants will learn disk preparation, file operation, MS-DOS commands and executing programs, the line editor, and how MS-DOS is used in conjunction with applications programs. October 31.

DATATRIEVE II

Learn to utilize the advanced DATATRIEVE commands and statements that allow you to create, access, and modify data. Participants will be able to create DTRSTART.COM for DATATRIEVE startup and KEYWORDS.TXT for DATATRIEVE synonyms; define and use the Common Data Dictionary; create DATATRIEVE dictionary directories, command files, domains, records, lists, files, and tables; create and utilize advanced DATATRIEVE procedures; define the context for name recognition; combine data from two or more record sources using the CROSS clause; utilize a VIEW domain; and restructure a domain. Prerequisite: DATATRIEVE I. October 29-30.

For further information, please contact the Registrar at DTN 223-5820 or 223-2872.

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MS-DOS® is a trademark of Microsoft Corp

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will be held from 29 October - 30 November for 4 hours each afternoon, plus time for homework in the VLSI Training Room, HLO1-1, pole N07.

Sign-in will take place on 22 October 1984.

Course fee: The fee for week 1 is \$375 per person. The fee for weeks 2-6 is an additional \$1500 per person.

Special note: Only students who have successfully completed the first week of the course are eligible to participate in the subsequent weeks. It is important to note that should the student choose to participate in weeks 2-6 the total cost of the course will be \$1875 per person.

NEWS BRIEFS

Deadlines for 'Digital This Week'

Deadlines for *Digital This Week* have been established to help you plan events and publicity around certain editions of the paper. Deadlines don't pertain to Marketplace, which is first come, first served. The next four issues and deadlines for DTW:

Sept. 24 issue — Sept. 12 deadline
Oct. 8 issue — Sept. 26 deadline
Oct. 22 issue — Oct. 10 deadline
Nov. 5 issue — Oct. 24 deadline

Digital Women's Basketball League organizing for season

The Digital Women's Basketball League is organizing for the 1984-85 season. The league season runs from October until February. For more information or to join the league, contact Nancy Wimberg at DTN: 381-2845, mailstop ZKO and at NACHO::WIMBERG; Laurie Kerrigan at DTN: 223-4297, mailstop PKO3-1/K72 or Linda Krysieneil at DTN: 276-9874, mailstop OGO1-2/MO8 and at PSGVAX::KRYSI-NEIL.

DCU announces new personal loan program

Digital Credit Union (DCU) announces a \$1,000 installment personal loan. Terms are available up to 24 months with an interest rate of 17 percent. Applications are available at local branch offices or by mail from the Maynard headquarters.

Due to anticipated demand for this program, the loan department requests that applicants allow 30 days to receive an answer.

Gold Key group provides opportunity for WPS users to share knowledge

The Gold Key Group program offers word processing systems (WPS) and other office systems users an opportunity to communicate knowledge and expertise about system procedures and applications.

A support network, established as a result of interaction between group members, helps participants to quickly resolve problems relating to hardware, software and specific applications.

The goal of the group is to take a positive approach towards learning about newly available equipment to enhance job performance and assist management in improving office productivity.

For information on how to start a Gold Key Group, contact Carol Johnston at DTN 279-5154.

Learn public speaking with the Toastmasters

Digital's "Last Word" Toastmasters Club teaches participants the art of speechmaking and public speaking. The club meets in Billerica every two weeks. For more information, contact Dushan Nikolic at DTN 247-2153 or BAGELS::NIKOLIC.

Correction

The new Terminal Switching Network (TSN) dial-in numbers for Shrewsbury, Mass., and Salem, N.H., were published incorrectly in the August 27 issue of DTW.

The correct numbers are as follows: Shrewsbury, Mass. - DTN 237-3824 through 3828, outside 617-874-3824 through 3828; Salem, N.H. - DTN 261-2724 through 2726, outside 603-894-2724 through 2726.

Also, the East Concord TSN dial-in numbers have been temporarily disconnected and will be back in service in November.

Remember to vote

Employees are reminded that it is their privilege and right to vote at the primary on Tuesday, September 18 and at the presidential election on Tuesday, November 6.

Study a second language at the French Library

The French Library in Boston, a non-profit cultural organization offers language courses, lectures, and fine arts lectures for both American and French professionals.

Anyone interested in the library or studying French as a second language may contact Mary E. Schipa, director of Education, at 617-266-4351.

Boating Safety class offered

This fall, the U.S. Coast Guard Auxiliary will again offer free boating safety classes at the Assabet Valley Vocational School on Fitchburg Street in Marlboro (just off the Route 85 exit from Interstate 495). Both power and sail classes will begin on Wednesday, September 12 at 7 p.m. with an introduction and sale of texts. The formal classes will begin on September 19.

For more information, contact Art Beane at DTN 225-5329 or at BARTOK::BEANE.

Blood drive at Stow

Health Services at Stow (OGO) is holding a blood drive on Monday, September 24 from 9 a.m. to 3 p.m. in the Fitness Room. Call DTN 276-9568 for an appointment. Walk-ins will be accepted.

Parker Street Branch gets Service Excellence Award

The 1984 U.S. Field Service Customer Survey results are in. This year's Service Excellence Award winners (10 Field and two In-Dec branches) include the Parker Street branch as one of the two In-Dec branch winners. The Branch Field Service manager of this group is Dave Russell and Unit managers are Dan Andrews, Paul Gaudreau, John Mylott and Julie Pulsinelli.

IEEE meeting on September 18

"The Uninterruptable Power Supply" is the subject for the September meeting of the Worcester section of the Institute of Electrical Electronics Engineers (IEEE). Curtis Dudley of AT&T Technologies will discuss types of UPS systems and design parameters. The meeting is Tuesday, September 18, at 7:30 p.m. at the New England Electric auditorium in Westboro at Route 9 and Interstate 495. For more information, call Ed Perkins at DTN 223-2107.

Applications for 1985 Christmas Club accepted now by DCU

Applications for the 1985 Christmas Clubs will be accepted now by the Digital Credit Union (DCU). The DCU expects to mail more than \$3.2 million at the end of October to current Digital Credit Union Christmas Club members.

The DCU Christmas Club earns 6.5 percent interest, compounded daily and paid quarterly. The balance is automatically mailed to members at maturity in late October. Deposits can be made through payroll deduction or by lump sum, or both. There is no minimum balance.

Applications for the 1985 Christmas Club are currently available at branch offices and personnel departments. Also applications will be included with the credit union quarterly statements in October. Clubs currently in effect will continue in 1985. For more information contact local DCU Branch offices.

Soda cans needed for United Way fund

Last year at this time, a collection of redeemable soda cans was started at the Mill for the 1983-84 United Way Campaign. To date, approximately \$400 in redemptions have been collected. Corporate Contributions will match that amount through the Matching Gift Program, so \$800 can be donated to the United Way this year.

However, the goal for soda can collection is to raise \$1,000. Donations to the collection program may be made until December 15. Cans may be deposited in receptacles at the major exits at the Mill with the exception of the Thompson Street lobby.

THE MARKETPLACE



APPLIANCES

CHEST FREEZER, 21 cu ft, almond finish, commercial, \$350, B/O, Stephen, 284-3242

VACUUM CLEANER, upright, Sears, gd cond, \$30, Mitch, 237-3226

CARS

'73 CHEVY VEGA, 2dr, 47Kmi, one owner, runs well, \$700, B/O, Fran, 231-7180

'74 PONTIAC CATALINA, hi mileage, gd transportation, \$600, Barbara, 223-1889

'81 FORD ESCORT GT, 3dr hatchback, 55Kmi, AM/FM, white, \$2650, B/O, Deb, 223-7046

'81 DODGE OMNI 024, hatchback, auto, 33Kmi, AM/FM, AC, rally whls, well maint, \$4725, B/O, David, 273-3323

'79 SUBARU WGN, 5spd, frnt whl drv, many extras, new brks all around, very clean, \$3000, Brian, 279-5200

'38 FORD DELUXE, all original, eng runs exc, 85 HP, \$5000, Mike, 249-1357

'76 JEEP CJ5, 6cyl, gd mechanically, body nds work, \$1500, B/O, Dick, 288-6801

'65 CHEVY NOVA, 76Kmi, 6cyl, std shift, vy little rust, gd for restoration, \$800, B/O, Karen, 276-9032

'83 SAAB 900, 2dr, 5spd, PS, PB, cruise, stereo, rear window louver, metallic blue, \$9800, Jim, 223-1328

'78 HONDA ACCORD, hatchback, 5spd, AM/FM, Michelin tires, re-blt eng, vy gd cond, \$2500, Claire, 223-7159

'83 DATSUN 200SX COUPE, 2dr SL pkg, 5spd, PW, 6spkr AM/FM, rustprf, PS, brown, \$7500, Tom, 223-2443

'78 VW RABBIT, auto, fuel inj, 70Kmi, 4dr, AM/FM, \$1600, Scott, 223-6680

'79 OLDS CUTLASS, PS, PB, stereo, defogger, AC, hi mileage but well maint, \$3500, B/O, Paul, 249-4285

'69 MUSTANG FAST BACK, runs great, solid frame, re-blt carb, undercoated, \$4000, Nelson, 223-3882

'78 HONDA CIVIC, 4spd, 2dr hatchback, overhead rally console, exc body+mech cond, \$1800, Joe, 223-5687

'80 TOYOTA TERCEL, lftbck, spec ed, auto, 28mpg, AC, stereo, exc cond, \$4500, B/O, Cris, 251-1402

'80 OLDS DELTA 88 ROYALE, AC, PW, PS, PB, power locks, AM/FM, one owner, exc cond, \$5900, Sheryl, 223-6568

'75 TOYOTA SR5 TRUCK, gd running cond, w/camper top, \$800, Mark, 223-3396

'77 DODGE VAN B200, customized, capts seats, icebx, table-bed, AM/FM, runs gd, \$1800, John, 223-5890

'74 FORD MUSTANG, 4cyl, auto, 4new radials, new batt, nds frnt brk work, \$400, B/O, John, 225-6848

'75 DATSUN B210, 4spd, AM/FM, clean car, \$900, B/O, Steven, 223-1395

'70 BUICK SKYLARK CUSTOM, 3spd auto, AC, 4dr hrdtop, AM/FM, PS, PB, 89Kmi, \$1200, B/O, Matt, 229-6690

'84 PONTIAC FIERO SE, AC, 4spd, sunrfr, cruise, PW, leather int, \$10,500, Steve, 231-5695

'79 CHEVETTE, 2dr, 40Kmi, \$1200, Lloyd, 225-6742

'83 CHEVY MONTE CARLO, AC, cruise, AM/FM, rear defog, PS, PB, 18Kmi, exc cond, \$9000, Chris, 283-6277

'73 GRMLIN X, auto trans, PS, AC, new radials, body nds work, 150Kmi, B/O over \$250, Linda, 223-2092

'81 RENAULT 181, 4dr sedan, frnt whl drv, tlt whl, AM/FM, AC, new tires, \$3495, B/O, Diane, 223-3373

'72 BMW 2002, 5spd, sunrfr, factory manual, nds a good home, \$1500, Marcy, 223-3956

'81 MERCURY CAPRI, 2dr hatchback, 4cyl, 4spd, AM/FM, \$4300, Jim, 223-3520

'79 CHEVY MALIBU, 4dr, AC, PS, PB, radio, well maint, gd cond, \$2950, Brian, 225-5482

FURNITURE

HOPE CHEST, by Lane, colonial pine, lined, floral embroidered seat top, \$100 firm, Nancy, 234-5435

CREDENZA, w/hidden bar, \$125, B/O; COFFEE TABLE, \$45; ANTIQUE TABLE, nds re-finishing, \$35, Ann, 276-9603

IRONRITE IRONER, exc cond, \$85, Janet, 221-5225

WICKER CHAIRS (2), white patio chairs, gd cond, \$15 ea, Nancy, 273-3390

CASTRO CONVERTIBLE, 3 overstuffed cushions, herculon, no wear, earthtones, \$350, Steve, 231-4588

KITCHEN TABLE, light pine, w/2 leaves, 4 chairs, one capts, exc cond, \$375, Paula, 223-6479

DINING TABLE, smoke glass, 48" round, modern simple white base, gd cond, \$150, B/O, Kay, 221-5113

MISCELLANEOUS

ATARI 2600, joysticks, paddles, 15 ctrdgs w/holder, less than 9 mos old, vy gd cond, \$175, Jean, 231-6048

WINDOWS (5), metal casement, storms + screens, 36"x38", B/O, Barbara, 231-6205

WINDVANE, copper+wood sailboat, approx 2'x2', pivot mount inc, never used, \$75, John, 283-7424

WOOD STOVE, Wonder Warm w/built-in blower, powerful, \$225, Peter, 231-5860

MULTI TRACK RECORDER, Yamaha MT44, 4track cass Doby B+C, mixer board, more, \$850, Karen, 279-5040

TIRES (2), 175/13 Bridgestone stl-belted radial white walls, 10Kmi, \$25 ea, Joe, 232-2326

AM/FM STEREO, Sears stereo, record player + spkrs, \$55, Joan, 249-1727

ROBIN VT180, 4 dsk drvs, standard SW, green glare screen, \$1000, Kratz, 282-2366

LAWN MOWER ATTACHMENTS, Simplicity sit down, sickle, lrg leaf enclosed collector, etc, Terry, 225-5200

CAMERA, Minolta XG-M 35mm, like new, w/filter, case, auto 200x flash attachment, \$200, Bob, 231-4131

BROWNIE UNIFORM, sz 8, jumper, blouse, orange tie, hat, vy gd cond, \$15, Faye, 231-2424

SWING SET, children's swing set, Wellesley, take it away, \$1, John, 223-5420

SNOWBLOWER, Lambert 6HP, 28", two-stage, chains, \$175, Ralph, 232-2315

WATER SOFTENER, Lindsey, used 6mos, like new, \$200, John, 234-5467

DIAMOND RING, ladies 14K yell gold, unique wide band, appraised @ \$1500, \$750, Linda, 238-3504

CELTICS TICKETS, for upcoming 84-85 season, call for availability, \$30/pr, George, 231-6654

CORVETTE SIDE EXHAUST SYSTEM, includes pipes and covers, 1969 style, \$350, Bob, 276-9544

FISH TANK, 55gals, w/stand, hood, light, filter, pump, gravel, \$175, Jim, 223-3520

TYPEWRITER, Royal electric, w/case, exc cond, great for college student, \$60, Susan, 223-7906

CELTICS TICKETS (2), 1st balcony, Sec 78, Row E, call for dates, \$13 ea, Patti, 224-1667

FREESTANDING FIREPLACES (2), Majestic red enamel, \$290; Sears tangerine, w/parts, \$200; Robert, 251-1605

POOL TABLE, std size, w/many accessories, includes ping-pong top, B/O, Jerry, 223-7845

LAWN MOWER, Toro 21" mulching mower, just tuned + serviced, \$150, B/O, Steve, 223-6449

WOOD STOVE, Franklin, brass balls + swing out broiler rack, gd cond, \$65, Gordon, 223-9246

CELLO, 3/4 size, w/case+bow, beautiful tone, gd cond, \$650, Nic, 223-3588

REAL ESTATE

NORTH COMWAY, 2bdm condo, Linderhof golf cou pool, tennis, view, furn, \$61.9K, Dick, 235-3523

SHERBURY, 3bdm split entry, 27x48, 1 1/2 bath, 2 frplcs, 2car gar, sunrm, lrg deck, \$99K, Tom, 225-4944

BOYLSTON, land, wooded corner lot, 1 1/2 acres, ready for building, \$32K, Jane, 225-4544

LOWELL, 2bdm condo, country setting, WW, lrg IR w/slider, AC, \$48.9K, Lisa, 223-1910

RENTALS

APT, Worcester, 4 1/2 rms, in 3fam home, nice area, \$425/mo, heat+hot water inc, Anne, 231-4342

HOUSE, Auburn, MA, sm 3rm house w/yard, gar, 5mins to Pike+290, \$400/mo+utils, Cabby, 223-7929

APT, Framingham, lbdm, dshwshr, AC, disp, 6mo lease, conv to DEC, 10/1, \$460, heat inc, Anne, 231-4356

APT, Millbury, modern 2bdm, in priv home, sep prkg +entrances, no pets, \$475+utils, Bernice, 235-3600

APTS (3), Pitchburg, 2 5rm, 1 6rm, \$350-410+utils+sec dep, 1 car prkg inc, Harris, 223-2937

HOUSE, Lexington, 5rms, 2bdm, 2bath, 1 car gar, \$950/mo+utils, avail 9/15, Bob, 231-4740

ROOMMATES

F, share Hopkinton house, Oct 1, close to Westboro, Marlboro, 495, \$300/mo+1/2utils, Maureen, 231-7400

M/F, non-smoker, rent 2rms in priv Lancaster home, \$225/mo, Diane, 251-1641

M/F, non-smoker, share 2bdm, 2-story Boylston town-house, conv to I90, \$250+1/2utils, Howard, 225-4955

F, share 3bdm Framingham home, \$267+1/3utils, sec dep, Barbara, 225-5752

M/F, non-smoker, 2rms in 3bdm Hudson (Lakeville) house, avail 9/1, Steve, 231-2189

M/F, non-smoker, 8rm house in Foxboro, no pets, \$300+1/2utils, Frank, 226-7166

F, non-smoker, 2bdm Maynard apt, 9/1 or 10/1, \$212+1/2utils, Joan, 278-4845

M/F, prof to share spacious 9rm house in Millis area, furn, lrg yard, gar, \$550/mo, Steve, 234-4808

F, to share 2bdm apt in Marlboro area, Lesley, 231-5981

F, non-smoker, share 2bdm Milford condo, tennis, pool, \$300+1/2elec, phonet+cable, Mary, 237-2341

M/F, share house in Sudbury, \$231+1/4utils, Ron, 225-6195

M/F, non-smoker, to look for apt/condo to share, Dotti, 269-2236

M, non-smoking prof, looking for apt/rental share, 15mi radius of Marlboro, \$2-300/mo, Mike, 237-3473

F, non-smoker, 20s, share 2bdm Worcester apt, off Rt 20, wshr/dryr, \$212/mo+utils inc, Lisa, 237-3330

M/F, share lrg 2bdm Brighton apt, 2bath, wshr/dryr, no pets, heated, \$300/mo, Randy, 251-1029

M/F, non-smoking prof, to share Marlboro waterfront home, \$250/mo+, Brenda, 278-4392

WANTED

SKI RACK, to fit 2dr '84 Skyhawk, Sue, 288-6813

SMALL PICKUP TRUCK, Ford Ranger type, \$1500-2000, also rd room dehumidifier, Steve, 231-4138

DOG HOUSE, for 2 65lb retrievers, reasonable Tracey, 276-9429

APT, 1-2bdm, Marlboro area, by Nov 1, \$350-450/mo utils included, Rao, 279-5296

WATERBED, kingsz, w/frame, heater, matt, liner+drawer pedestal, also exercise bike, Pamela, 231-6824

KITCHEN STOOLS (2), gd cond, no plastic, Pat, 223-3072

VAX cooling system . . .

Continued from page 1

As part of Project Athena, Digital will do a 60 VAX 11/750s to MIT. "One of these mainframes dissipates 3 to 4 kilowatts of heat into a room," John says. At MIT, plans are in the works to put 16 VAXs in one room. This concentration is equivalent to 50 to 60 kilowatts of energy dissipating into the room.

Conventionally, computers are cooled by drawing cool air through machines, with fans, and discharging the warm air into the computer room. The computer rooms are then cooled by an air conditioning or process cooling system. Utilizing this process can be expensive since the computer room has to be modified to accommodate air flow and dehumidifying. In addition, the fans drawing air through computers are noisy.

The proposed chilled water heat exchanger, has chilled water fed through a pipe into the cooling cabinet with a fan in the computer circulating air through the cabinet. Ideally, heated water is returned to a cooling tower, located outside the computer room, for heat exchange.

According to the proposal, as compared to the conventional system, the chilled water heat exchanger system would use substantially less electric power, cost less to construct than modifying a room for air conditioning capacity, reduce noise with the combination of circulating fans and increase comfort with improved control since the mainframe will be cooled rather than the entire room in which it is located.

Bartoszek says, "At this point in the research and development process of the chilled water heat exchanger, it is not clear whether or not this is a feasible or marketable system."

Core Groups . . .

Continued from page 1

is to build trust among people working across race and cultural lines.

Core Groups have developed around particular areas of difference ranging from sex and race to manufacturing and engineering. Most of these groups consist of approximately 10 people or less. They meet once a month.

Linda St. Clair, Human Resource Organization manager for Manufacturing and Engineering, has been involved with a black and white women's Core Group since Core Groups were first formed. She emphasizes that participation in a Core Group requires a lot of commitment and willingness to take risks. "It is more than a process of sensitizing and awareness raising.

Hard work coming to understand the complexities involved in achieving positive acceptance of what we are as individuals. I have come to better understand what it is to be a white woman working in our society. I have found that the Core Group process has enriched my worklife and I feel

TECHNICAL SEMINARS

This is an integrated calendar of seminars for HLO, MRO, TWO, APO, LTN, ZKO, and MLO.

Unless otherwise indicated seminar locations are as follows:

APO	Gold Room	
MRO	Dec 10/20	
TWO	Cafeteria	
APO	289-1226	ERIE::CARMEAN
MRO	231-5097	KL1031::CSMALL
TWO	247-2643	BERGIL::SLINN

Sept. 17 - 2:00-4:00 MRO DEC/20

Roger Riech/CX-DEC

Disk Subsystem Performance of OSA,

Urban League . . .

Continued from page 1

tunities in all sectors of society for minorities and the poor. By participating in the national convention, Digital provided an opportunity for the minority community to become familiar with the high technology industry, encouraged minority youth to pursue careers in high technology and demonstrated Digital's support and continued commitment to the Urban League.

At this year's convention, Digital set-up a 40 by 80 foot booth exclusively for the Job Opportunity Showcase. A software package specifically designed for this purpose was utilized. An on-site hardware system, with 16 terminals, two printers, disk and tape drives all driven by a VAX 11/780, was brought on-line by a full-time field service support team within a day and a half. The system was configured and tested before being shipped from Digital's Auburn manufacturing plant.

After the system was running, the data bases of job and resume listings were

MASSBUS, FUJITSU

Cancellation Sept. 19 TWO

Rescheduled for Oct. 24 3:00 - 5:00 TWO
Bob Twiddy/Group Engineer Manager for European Network Engineering ISDN and Communications of Tomorrow

Sept. 19 - 10:00-12:00 APO

Len Beyerdorfer/P&DS DEC

Prodigy:Man/Machine Inter. Human Factors Series

Oct. 11 - 3:00-4:00 TWO

A. Udaya Shankar/U. of Maryland

Time Dependent Communication Protocols

aligned to provide prospective employees with information about available job opportunities that matched their qualifications and career interest, and employers with the resumes of potential candidates for their vacant positions. Equipped with a hard copy of the job opportunities that best matched their interest, candidates sought out company representatives, many of whom conducted on-site interviews in one of the 10 booths made available for that purpose.

As the conference drew to a close, approximately 30 of the exhibiting companies requested selected resumes so that they could follow-up with applicants qualified to fill their vacancies. A partial listing of exhibitors using the service included: Dupont; Holiday Inns; Phillip Morris; Wang Labs; Trans World Airlines; Johnson & Johnson; Federal Express; Kodak; General Dynamics; U.S. Airforce; IBM; and Gillette.

"Feedback from the conferees, exhibitors, and the Urban League all indicate that the service was well received. Additionally, newspaper and media attention given the showcase continues to reflect positively on Digital," Zella says.

She explains that "It was clearly a 10-day team effort by Digital employees in corporate positions, manufacturing, engineering, customer and field service. We all felt satisfaction knowing that we were the catalyst toward helping someone find the right job and showing exhibitors what our system can do for them when they are making requests for employees." This year's team included: Gene Backmon, Greenville Manufacturing; Dave Cantor and Rod Rossmeisl from Process and Design Information Systems, Andover; Carl Bradwell from the Columbus, Ohio Sales Office; Will Avery from Cleveland Field Service; Ray Ferrara from Corporate Information Systems; Jean Pappas from Corporate Trade Show, and Doris Mitchell from Corporate Equal Employment Opportunity.

In addition to the Job Opportunity Showcase, Digital had a regular exhibition booth at the convention.

comfortable knowing that Digital is committed to working to reduce patronizing/matronizing."

"It is a balance of pain and joy and takes a lot of energy not to be intimidated but rather to be honest, open and supportive," says Bel Cross, Corporate manager, Digital Information Systems.

Employees involved with Core Groups believe that the name has evolved from the process of analyzing how employees think and operate.

"After differences impeding people are verbalized and fully understood, individuals can begin to change attitudes and interactions, so that the workplace becomes highly productive," says Donna Taylor, Senior Affirmative Action consultant for Corporate Affirmative Action and Equal Employment Opportunity. For more information on Core Groups and the organization process, contact Donna at DTN 251-1350.

Computerizing the farm with a Rainbow

Since more farmers are buying personal computers to manage their farming operations, Digital has begun a marketing campaign to establish itself in the agricultural market.

The Rainbow personal computer was demonstrated to more than 12,000 farmers at the Farm Progress Show held recently in Iowa and at a major farm equipment trade show called Husker Harvest Days, held in Nebraska. Digital has also been advertising in farm trade publications such as Farm Journal, Successful Farming and Farm Industry News.

According to a report from Frost & Sullivan, a marketing research firm, farmers will buy approximately 94,000 microcomputers by 1987, and spend some \$428 million on microcomputers and dataprocessing services over the next four years.

In addition to hardware, a software package for farm applications was developed for use on the Rainbow by Digital and a group of major software vendors. Digital's Aims Coney, Agriculture Market manager, says that the company "selected the 10 best farm software companies and lent them Rainbows for development. We also encouraged the growth of new applications by giving the software companies exposure at farm trade shows."

The Farm Credit Bank of Springfield, Mass., will be offering a version of its Agri-

fax software package for the Rainbow. This bank is part of the Farm Credit System, which is chartered by Congress to provide low cost credit to farmers.

Currently, the Agrifax software package that runs on a VAX is used by the Farm Credit Bank to prepare cash flow reports, income and expense reports and tax-related reports for farmers. The farmers send information to their local association



where it is input and reports are prepared for them.

With the personal computer version of Agrifax and a Rainbow, farmers can prepare their own reports while still getting assistance from their local associations. A farmer may also use his or her personal computer system to send information to the VAX at the bank, where data from the farm will be compared to that of similar farms in the area. This information may then be used to develop better farm management strategies.

Another recent business development for Rainbows in the agricultural market is Digital's Commercial Original Equipment Manufacturer (COEM) agreement with Simplot Data Systems of Boise, Idaho. This company is a subsidiary of J.R. Simplot Company, the largest manufacturer of fertilizer in the western United States and largest producer of frozen french fried potatoes.

Simplot Data Systems offers its SimDisk software package for the Rainbow, which includes modules for accounting, records management, crop production, and dairy herd management.

In addition, Simplot Data Systems has sold 60 systems to date, and they also sell peripherals, supplies and certain Digital Classified Software packages to farmers.

Health promotion program developed in Shrewsbury

A health and wellness program, called "SHAPE" for Shrewsbury's Healthy Approach to Productive Employees, has recently been developed for Digital employees at the Shrewsbury facility.

The program encourages employees to improve physical and emotional health. Digital also gains by having healthier employees, greater productivity, reduced health care costs, absenteeism and attrition.

An in-house Health and Wellness Center, opened on August 27, will serve as the focal point for the SHAPE program. The center is staffed by trained professionals from the YMCA of Greater Worcester and will provide individual attention and monitoring to Shrewsbury employees regarding lifestyle counseling and awareness, individual exercise prescriptions and fitness

evaluations, and exercise and dietary techniques.

The center has been professionally designed by the YMCA staff to manage a conditioning program with a combination of aerobic activity and individual exercise prescriptions that provides maximum cardiovascular / cardiorespiratory conditioning, while improving body strength, endurance and flexibility.

The SHAPE staff is made up of professionals representing the YMCA of Greater Worcester, Shrewsbury Nautilus, UMASS Medical School, Shrewsbury Racquet Club, Digital Shrewsbury Health Services and Personnel.

For more information on the SHAPE program, contact Theresa Cash, Community Relations and Quality Worklife specialist, at DTN 237-3012.

Employee-only offerings from Seminar Programs

During October, Seminar Programs offers four opportunities to attend employee-only versions of seminars usually designed for customers.

Oct.

- | | |
|-------|--|
| 8-10 | VMS Version 4 Update Seminar
Digital Merrimack |
| 15-17 | Cost-Effective Software Testing
Bedford Training Center |
| 22-24 | Networking, Architectural Concepts
Bedford Training Center |
| 29-30 | What a Rainbow Can Do for You: Managers' Overview
Bedford Training Center |

Please contact the Seminar Programs Registrar at DTN 249-4949 for more information.

Metpay changes days for registry service

Effective immediately, Registry of Motor Vehicles service performed for Digital employees by Metpay will change from Tuesdays and Fridays to Tuesdays and Thursdays. The service will continue to be out of the Mill, Parker Street and Marlboro Metpay offices.

Employees who want to have Metpay take care of registry business must have paperwork delivered to the Metpay Offices at the Mill or Parker Street by 9 a.m. the day of the service, or to the Metpay office in Marlboro by 4 p.m. the day before the service.

To renew Massachusetts automobile registration, send the signed registration form, a check for the appropriate registration fee made payable to the "Registry of Motor Vehicles," and a self-addressed envelope in the mail to METPAY at the Mill (MLO12-1/T66), Parker Street (PKO3-1/K40) or Marlboro (MRO1-2). (Allow three weeks for processing).

License plates and new registrations must be picked up at the Metpay office. Renewals can either be picked up or mailed to employees by Metpay, however Metpay does not guarantee delivery through the mails - interoffice or general postal.

To obtain further details regarding Metpay's registry service, call local Metpay Representatives.