

digital

MAYNARD

DIGITAL THIS WEEK



Volume 10

Number 10

May 30, 1983

Digital to market scientific word processing software

Digital announced an agreement with Microsystems Engineering Corporation (MEC), of Hoffman Estates, Ill., whereby Digital will market and distribute MEC's MASS-11 scientific word processing software package for its VAX superminicomputers. Designed to be compatible with Digital's DECmate and WPS-200 series of word processors, MASS-11 enables as many as 48 concurrent users on VAX-11/780 computers to perform word processing operations.

In addition to the conventional word processing features, MASS-11 includes a special editor for scientific equation notation, and enables users to intermix scientific and English characters in both text- and equation-editing nodes. The word processing package, which runs under the VMS operating system, can be linked to Digital's

stand-alone word processing systems for document interchange.

Input to MASS-11 using the WPS-200/-DECmate editor interface is done through a VT100 family video terminal using a word processing keyboard layout. A special scientific-character set in read-only memory (ROM) can be installed to enable the terminal to display, enter and receive scientific characters. For hard-copy print-out, a scientific-character ROM option has been developed for Digital's LETTER-PRINTER 100 high-resolution matrix printer.

MASS-11 will be marketed through Digital's External Application Software (EAS) Library. It is priced at \$10,000 and is scheduled to be available this summer, as will both VT100 terminal and LETTER-PRINTER 100 ROM options.

The compatibility to Digital's WPS-200 and DECmate word processors enables MASS-11 users to integrate administrative and scientific report preparation and other documentation required in a scientific or technical environment. The advanced word processing package works in conjunction with Digital's All-in-1 office automation software. This enables MASS-11 to work with Digital's Polygrafix software to provide total integration of text and graphics.

In addition to scientific notation, other advanced features of MASS-11 include supporting documents of any length, full-screen editing (as opposed to bottom line only), automatic draft copy double-spacing without disturbing different rulers for the final document, and operation of up to 25 printers simultaneously.

First fiber optics installation, a success

While optical communication has been used in telecommunication for several years, its use in local computer communication is a recent accomplishment for Digital. Digital's most recent entry into the fiber-optics market consists of an optical data communication link, up to 300 meters long, between a VAX computer and the recently developed VAXstation 100 graphics subsystems.

After months of designs, specs and working with manufacturers, the VAXstation team was able to test the reliability of the fiber with the first installation of VAXstation fiber-optics cable technology. On April 30 in Marlboro (MRO3), a datacommunication crew installed twenty-four 300 meter fiber-optics cables from the Workstation Program computers on the third floor to offices on the first floor.

Bob Holt, principal design engineer of fiber optics for the VAXstation 100, explained that laying the cables was the culmination of a long-term development effort with fiber-optics cable manufacturers to meet what they considered a difficult spec. "It's exciting to see a product grow from an idea to something you can feel and touch. It's a feeling of accomplishment for the whole team. We have shown that fiber optics has a viable place in the datacommunication field and we have done it 'first

in the industry' with a high volume product."

"It was a learning experience for us as well as a learning experience for Workstation staff," said Datacommunication super-

visor in Marlboro Doug Vickery. Datacommunication technician Winnie Joyner, having taken a CSSE fiber optics course, was able to apply his knowledge to Digital's first

Continued on page 11



Installing fiber-optics cable in Marlboro are: (l. to r.) Jim Burgess, data communication technician; Bob Holt, principal fiber optics design engineer; and Roy Evans, CSSE senior maintainability engineer.

TSS Technical Seminar

Hall of the White Mists
Hudson, Massachusetts

TENTATIVE SCHEDULE

June 2 - 10 a.m.

Anne Ewalt - Digital
Impact of Technology Scaling on System Performance

June 6 - 10 a.m.

Lih Weng - Digital
Error-Correcting Codes for Disk Applications

June 8 - 3 p.m.

Alan Smith - UC Berkeley
Cache Memories

June 9 - 10 a.m.

Simon Garth - Cambridge University
Microelectronics Engineering Inspection

June 10 - 10 a.m.

Ed Schwallie - Hewlett-Packard
Computer-Aided Manufacturing Production Management Concerns

June 13 - 10 a.m.

Timothy Trick - U. of Illinois
Simulation of VLSI Circuits

June 14 - 3 p.m.

Fernando Pereira - SRI International
Logic for Natural Language Analysis

June 16 - 10 a.m.

Ken Bowen - Syracuse University
PROLOG

June 17 - 10 a.m.

Dave Jefferson - USC
Virtual Time Distributed Computation

June 23 - 3 p.m.

Barry Folsom - Digital
RAINBOW

For updated information call Judy Hunt
DTN 225-4071 WAFER:HUNT



Patrick Courtin heads new Engineering group

Patrick Courtin was named to head a new group that will do engineering for Computer Integrated Manufacturing. It will include the Engineering Systems (ESG), the Manufacturing Distribution and Control (MDC) and the UNIX Engineering Groups. Patrick will report to Jack Smith, vice president, manufacturing, and Gordon Bell, vice president, engineering. Most recently, Patrick was the manager of the Telephone Industries Group (TIG).

Direct dialing comes to Westminster and Augusta

Beginning June 27, Westminster will have Direct Inward Dialing (DID) added to their phone system. On July 11, Augusta, Maine will also change over to Direct Inward Dialing.

With DID, external callers will be able to reach the person they're calling directly rather than going through a central operator. The change to DID will effect some internal dialing patterns.

Westminster

In Westminster, extension numbers beginning with "2" will become "3" on June 27 when the cutover to DID is complete. For example, if an employee's extension is now DTN 241-2804, it will become DTN 241-3804 or (617) 874-3804.

The directory number in Westminster will also change due to DID. To access the operator in Westminster dial DTN 241-3111 or (617) 874-3111.

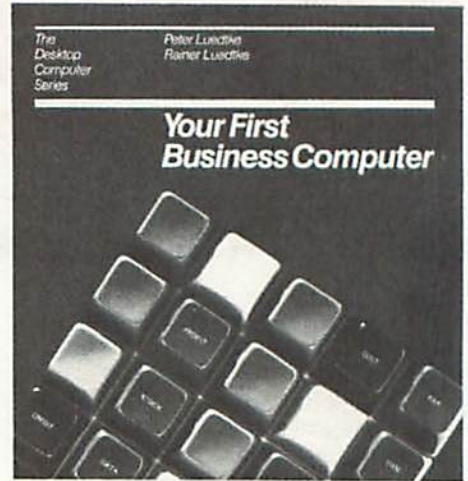
All of the changes to the Westminster phone system will be corrected in time for the July issue of the Digital Telephone Director.

Augusta, Maine

Direct Inward Dialing will be available at the Augusta facility on July 11. The main listed number and all extensions will be changed at that time. The new main number will be (207) 623-6511. The new four-digit extensions will be listed in the July issue of the Digital Telephone Directory.

To reach an employee directly from a non-DTN phone, dial (207) 623-and the four-digit extension. All DTN calls must be dialed 271-and the four-digit extension. Internal operator's assistance will remain the same, DTN 271-2211.

New book examines selecting the right computer



Your First Business Computer by Peter Luedtke and Rainer Luedtke is now available from Digital Press. The book helps business people choose the right small computer for their business needs. It provides an understanding of computer capabilities, evaluates business goals and work environments, and prepares the reader to explore the marketplace. A final chapter shows how to integrate the computer system into the business.

Using the comprehensive checklists in *Your First Business Computer*, readers can evaluate their current business operations and pinpoint weaknesses and critical areas before automation. This also helps establish priorities for computerization.

Small computers and their capabilities are discussed in a systems context; how the different parts of a computer system effect one another and contribute to the effectiveness of the entire system. The reader will be able to sort through technical jargon, talk with computer retailers and determine which computer systems would be most appropriate.

Case studies and an illustrated glossary provide a lively background to help the reader make the right decision.

The order number for *Your First Business Computer* is EY-00008-DP. The internal transfer price (ITP) is \$5.00. Employees may order Digital Press titles through their cost center by send a TWX (RCS code: BKLG) or memo (mailstop: BKO). The TWX or memo should include: name, badge number, cost center, mailing address and cost center manager's name. The customer list price is \$15.00 per copy. All orders should be sent to Digital Equipment Corporation, 12A Esquire Road, Billerica, MA 01862.

DIGITAL THIS WEEK



Editor: Barbara Lovely

Send stories, photos, ideas or suggestions to DTW, CF02-3/K23 or call the editor at DTN 251-1307. Ads must be submitted in writing to Marketplace, CF02-3/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.

General Doriot receives honorary degree

General Georges Doriot, a member of Digital's Board of Directors, received an honorary Doctor of Laws degree from Boston University on May 15.

Between 1926 and 1966, General Doriot taught industrial management at Harvard Business School to more than 6,700 students.

He served as a brigadier general in the United States Army from 1941 to 1947 as chief of the Army's Military Planning Divi-



Georges Doriot

sion, in charge of research and development. His achievements included the development of tents, jungle uniforms and special clothing for extreme weather, along with K-rations and the dehydration of food. He also initiated research on the armored vest.

General Doriot later became chairman and director of the American Research and Development Corporation (AR&D), which was formed in 1946 to continue the innovative momentum that business had generated during World War II. It was the first public venture capital-investment company in the United States.

AR&D's initial capital was \$3 million, and by 1972, when sold to Textron, its assets were worth \$400 million.

Under General Doriot, AR&D invested in more than 150 companies, among them Digital, which began with an initial investment of \$61,000 in 1957.

General Doriot is also a director of Sun Life Assurance Co. of Canada, the Boston Company and the National Shawmut Bank of Boston.

He is president of the French Library in Boston and trustee and vice-president of the Franklin Foundation. He is counsellor of the Institut Europeen d'Administration des Affaires in Paris and has received the United States Distinguished Service Medal and the Legion d'Honneur from France.

Record equipment donation supports new Science and Engineering Center



Symbolizing a \$1.6 million equipment donation to Boston University, Ken Olsen presents (l. to r.) John Silber, BU president, and Russel Jones, vice president of academic affairs, with a personal computer.

With a record-breaking equipment donation of \$1.6 million to Boston University Center for the Sciences and Engineering, Digital is helping the school on its way to being in the forefront of science disciplines.

Opening in September 1983, the first stages of the planned \$49 million complex will contain new facilities for biology, chemistry, physics and engineering. In total expansion and renovation, the sciences and engineering will have three times the area currently occupied.

Digital's contribution is the largest one-time gift the company has ever made to an educational institution, and also is the largest equipment gift that BU has ever received. The equipment Digital donated to

the University includes two VAX 11/780 systems for research in the new department of computer science and in the College of Engineering, and a DEC 20/60 computer for artificial intelligence research.

Ken Olsen, president, said in presenting the gift to BU President John Silber that "education has always been a special priority for Digital. We are pleased to be able to support Boston University's development of its engineering and computer science resources."

In accepting the gift, John Silber thanked Digital for its generosity and promised it would be "amply justified by the research and instruction that the gift will help to make possible."

Six marketing groups help target customer audiences

Marketing now consists of six groups which delineate Digital's target markets. Managers of the six marketing groups report to Ken Olsen, president, as does Ed Kramer who has been named corporate vice president, Marketing. Ed will coordinate and integrate strategic plans, and he will make sure that standards, roles, measurements and career paths are clearly defined and understood. He will also facilitate collaborative efforts among the groups.

The six groups and their managers are as follows. Rose Ann Giordano is in charge of a new group responsible for large systems marketing, which includes the Large Computer Group. Bob Hughes remains in charge of the Business and Office Systems

Group. Bill Long, Technical Group, is in charge of the Laboratory Products, Educational Systems and Medical Systems Groups. Ward MacKenzie, OEM Group, continues in charge of OEM, Chips and Boards. Joel Schwartz is in charge of marketing computers and terminal through distributors and re-sellers. (This market does not include Digital's Business Centers or DEC Dealers.) Joel also is responsible for marketing personal computers and terminals. Peter Smith heads a newly formed Computer Integrated Manufacturing (CIM) Group, which includes the Engineering Systems and Manufacturing, Distribution and Control Groups.



NEWS BRIEFS

Deadlines for "Digital This Week"

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

- June 13 issue - June 2 deadline
- June 27 issue - June 16 deadline
- July 18 issue - July 6 deadline
- August 1 issue - July 20 deadline

Community gardens available at Stow

The Digital Community Gardening Club at Stow is offering plots on the former farm site which the Stow facility is built on. Dues of \$10 entitle employees to a pre-plowed, pre-lined, 20 by 40 foot plot which has access to water during non-work hours. A limited number of plots are still available. For more information contact club president Peter Fournier, DTN 276-9286, OGO1-E17.

IDECUS Symposium registration underway

Internal DECUS will hold its 1983 Spring Symposium at the Sheraton Inn and Conference Center in Boxborough on June 15 and 16. Preregistration is required by June 8. For a copy of the program and registration information contact Internal DECUS on DTN 231-4416 or 231-4332.

Bike Club holds meeting

The Digital Bicycle Club will hold its monthly meeting in the Littleton Cafeteria on Tuesday, June 7 at 7:00 p.m. The meeting will cover proper bicycling clothing. A short bike ride will precede the meeting departing from the Littleton parking lot at 6:00 p.m. For more information call Kathy Norton, DTN 234-4541.

Ed Services to hold open house

Educational Services will hold an open house to discuss current instructor positions and careers in Field Service Training. The open house will take place on June 9 at the Bedford Training Center, Building C, Crosby Drive off Route 62 from 2:00 to 7:00 p.m. For more information contact Lorraine Bessette, DTN 276-9319 or Laura Seiss, DTN 249-4269.

Chain letters violate company policy

A number of chain letters recently have been circulating throughout Digital's inter-office mail. Some promise money or bad luck to whomever breaks the chain. Others are harmless but annoying and wasteful. Employees who receive chain letters should not forward them through the internal mail system. This is a violation of company policy.

In addition, the U.S. Postal Inspection Service warns, "Anyone who promotes or participates in a chain letter that requires the payment of something of value, such as cash or money orders, and offers a prize dependent on chance is in violation of federal mail fraud and lottery laws. Even if the chain letter itself is not mailed, as long as the payment of the prize is sent through the U.S. mail, the entire scheme is illegal."

Hudson to form Learning Center Interest Group

The Hudson Library (HLO) is looking for people interested in joining a learning center development committee. The committee will determine self-paced instructional materials in computer literacy, office automation skills, management and supervisory skills, and other productivity enhancing and career development areas. For more information contact Ann Baker-Shear, DTN 225-5258 or John O'Buck DTN 225-4043.

Bowling league ends season

The Digital Winter Candlepin Bowling League recently concluded their season with rollofs. The winners of the rollofs were "One to Four," captained by Jeff Szkaradek, with teammates Fran Galvin, Paul Gouthro, Ed Norris, and Skip Morning.

Employees' Flea Market planned

The 8th Annual Digital Employees' Flea Market is set for Saturday, June 11, (rain date Sunday, June 12) from 10:00 a.m. to 4:00 p.m. in the Parker Street parking lot, Maynard.

The Flea Market is sponsored by the Maynard Employee Activities Committee. MEAC will have refreshments on sale and entertainment will be provided. Vendors are all employees of Digital. The flea market is open to all employees, their families and friends. There is no admission charge.

Computer Club looks at Rainbows

Robert Bradley will talk about progress in Rainbow development to interested employees and their families on June 2 from 6:00 to 7:30 p.m. The meeting will take place in the Corporate Auditorium (PKO3). A business meeting will follow for employees interested in planning club activities. For more information contact Alex Aderer on DTN 276-9407.

UKO means New York

Interoffice mail addressed to UKO will not go to the United Kingdom. It goes to the New York City Uptown Field Service Center. Facilities in the United Kingdom each have their own location codes which are listed in the Digital Telephone Directory.

DTW to highlight training and seminar groups

Training and seminar groups that would like to be listed in a profile of Maynard area training groups should contact Barbara Lovely, DTN 251-1307 by June 2. The profile is planned for the June 13 issue of *Digital This Week*.

Volunteering, an American tradition

Volunteers in today's society are a growing breed. With cutbacks of government assistance the need for more help from individuals to keep social service agencies alive is ever-increasing.

The Voluntary Action Center (VAC), a service department of the United Way of Massachusetts Bay, serves as a resource for 'not for profit' agencies. VAC receives over 2,000 calls annually from individuals who are interested in helping others or sharing in the well-being of their community through volunteering.

One service provided by VAC is the SKILLSBANK, an activity of the Corporate Volunteer Program. The SKILLSBANK

makes it possible for agencies which are registered with VAC to benefit from the technical skills, talents and knowledge which corporate volunteers can effectively bring to bear on problems facing 'not for profit' organizations. Technical expertise is most frequently requested in the following areas: Accounting/Financial Management, Facilities Management, Personnel Management, Marketing/PR Planning and Board of Directors Candidates.

If you would be interested in volunteering on a short or long-term basis, please call the Voluntary Action Center at (617) 482-8370 in Boston.



How "The Marketplace" works...

"The Marketplace" is a free service provided by *Digital This Week* for Digital employees in Massachusetts facilities. To service as many employees as possible and to keep the ads timely, *DTW* needs your cooperation.

Please submit one ad at a time. Multiple or duplicate ads will have to be returned. You may list more than one item in an ad if it fits on two lines with about 45 characters to a line. An ad will only be printed once. *DTW* reserves the right to edit for space.

Ads should be worded clearly, printed or typewritten and be in good taste. Marketplace does not print ads for services or profit making enterprises.

There are no deadlines for Marketplace submission. Ads are printed on a first-come, first-served basis as space allows. Therefore, Marketplace is not always the best vehicle if you want to sell something in a hurry. Ads cannot be taken over the phone.

When submitting an ad, please remember to include all of the following information: full name, mailstop, DTN. Only first names are printed, but we must have your full name for our records. *DTW* does not print home phone numbers. If you sell your item before the ad is published, please call the office to cancel the ad. We can use that space for another listing.

If you have any questions, please call the Marketplace office at DTN 251-1308.

APPLIANCES

AIR CONDITIONER, Westinghouse, 5000 BTU, used only a few weeks, \$180, David, 236-2440

PORTABLE DISHWASHER, Whirlpool, copper color, exc cond, \$100, Carolyn, 223-6675

GE REFRIGERATOR, w/freezer, self-defrosting, 64" H x 25" D x 30" W, white, \$100, Madeline, 231-7660

PORTABLE DISHWASHER, Kenmore, gd cond, \$50, Bob, 223-6615

CLOTHES DRYER, Westinghouse, 110/220 volt, 5yrs old, white, \$100, John, 276-9292

GE PORTABLE DISHWASHER, w/cutting board top, 2spd, 5cycle, 13yrs old, gd cond, \$75, Charlie, 221-5460

DOUBLE OVEN STOVE, self-cleaning, temp probe, ro-tisserie, white, \$450, Pete, 279-5742

REFRIGERATOR, Westinghouse, 19 cu ft, avacado, gd cond, \$350, B/O, Mitch, 292-2177

WET/DRY VAC, Sears, 16gal, includes hose, attachments, \$80, B/O, John, 228-2060

WASHER + DRYER, Sears top of the line, orig \$1000, 16mos old, gold, \$650, Tina, 279-5701

WASHER + DRYER, Kenmore, "portable", can be permanently hooked up, electric, \$300, B/O, Beth, 225-4420

WASHER, apt size, Westinghouse, 11 lb tub, nds a timer, \$50, Ray, 231-6414

GE ELECTRIC STOVE, range, self-cleaning oven, 10yrs old, time cooking, exc cond, \$125, Charlie, 221-5460

'82 MUSTANG GL, T-roof, AM/FMcass, 6cyl, 5yr warr, many extras, mint cond, \$7500, B/O, Phillip, 223-5739

'72 PLYMOUTH FURY III, auto, AC, PS, PB, orig 68Kmi, AM/FM, crs cntrl, runs great, \$450, Paul, 281-5689

'77 CHEVY NOVA, 4dr, auto, PS, new radials+radial snows, 62Kmi, exc cond, \$2800, Annemarie, 223-5892

'78 DATSUN B210, AC, AM/FM, new paint, 52Kmi, reg gas, 32mpg, \$2600, Ernie, 273-3119

'79 JEEP CJ-7, gd shape, runs well, 5 new tires, orig owner, \$4600, B/O, Ken, 223-9481

'81 CHEVY CHEVETTE, 2dr, 4spd, AM/FMcass, one owner, gd cond, \$3500, Bob, 223-4905

'81 RENAULT 181, auto, frnt whl drv, PS, PB, AC, AM/FM, radials, rear defog, \$5900, Diane, 223-1257

'75 TOYOTA COROLLA STA WGN, new frnt fenders, exc running cond, vy gd cond, \$1700, David, 249-4709

'71 CADILLAC COUPE DE VILLE, gold, AC, California car, mint cond, \$1500, Donna, 277-7241

'80 CHEVY VAN, 305 V8, 3/4 ton, custom van, loaded w/extras, \$8495, Frank, 223-2959

'78 MERCURY COUGAR XR7, 2dr, AM/FM, PS, PB, AC, runs vy well, dk blue, \$3500, Jamie, 231-4743

'78 CHRYSLER CORDOBA, loaded, power seat+windows, auto, cloth int, AC, 56Kmi, \$3300, Vinay, 232-2391

'75 TRIUMPH SPITFIRE, cnvrtble+hardtop, 4cyl, 4spd, 75K orig mi, new radials+muff, \$3000, Bill, 247-3171

'82 TOYOTA COROLLA WGN, 9Kmi, AM/FMcass, rear wipe/wash, alarm, rustprf, \$6800, B/O, Andy, 232-2362

'72 SAAB, gd 2nd car, runs great, no rust, 2 new tires, neg, Kim, 231-4135

'76 PINTO WAGON, auto, gd running cond, \$950, Ron, 231-4255

'69 CHEVROLET NOVA, runs but best used for parts, \$175, Mike, 249-1722

'74 DATSUN B210, 4dr sedan, 54Kmi, no rust, FM, exc cond, \$1000 firm, Jacqueline, 235-3305

'73 PLYMOUTH SCAMP, 6cyl, auto, PS, exc body, exc running cond, \$1595, Dan, 279-5549

'73 VW BEETLE, re-blt eng, new tires+batt, exc running car, yellow, \$1100, B/O, Carolyn, 249-4959

'74 PINTO WAGON, auto, snow tires, 64Kmi, runs exc, \$495, Dick, 251-1701

'75 TOYOTA COROLLA, 4dr, 5Kmi, gd dependable transportation, vy well maint, \$750, Daniel, 249-4962

'78 MUSTANG, htchbck, AC, cass stereo, 77Kmi, exc cond, \$2900, Nancy, 231-4709

'76 CUTLASS SUPREME, one owner, 62Kmi, AM/FM, tape, new tires, exc cond, \$2500, Kathy, 231-7939

'80 DATSUN 310GX, 4spd, frnt whl drv, 43Kmi, sunrf, AM/FMcass, brown, tan int, \$4100, B/O, Rich, 225-4037

'74 DODGE DART CUSTOM, small 8, PS, PB, AC, auto, gd tires, nds some body work, \$700, B/O, Ethel, 223-3648

'73 DODGE CHARGER, 2dr, V8, AM/FM, hiway mileage, reliable, \$550, Bruce, 273-3504

'77 DODGE ASPEN, 6cyl, auto, PS, PB, AM/FM, tape, exc cond, \$3100, Fan, 235-3513

'75 TOYOTA CORONA, 2dr, auto, AM/FM, reg gas, 68Kmi, exc cond, \$1795, Larry, 229-6080

'78 HONDA CIVIC CVCC, 5spd, htchbck, AM/FMcass, red, new exh, roof console, 80Kmi, \$2800, Martha, 288-6694

'79 MUSTANG, auto, PS, PB, AM/FM, 50Kmi, new brks, under warr, lt blue, exc cond, \$3800, B/O, Joe, 282-2191

'81 PONTIAC PHOENIX, 4cyl, auto, htchbck, 10Kmi, like new, \$5500, B/O, Dennis, 292-2065

'79 DATSUN 210, htchbck, 4spd, cloth seats, rustprf, one owner, gd tires, reg gas, \$2500, Arlene, 285-6224

'72 VOLVO 142S, 4spd, 4cyl, gd gas mileage, gd cond in+out, vy reliable, \$1450, B/O, Bob, 228-2257

'82 PONTIAC J2000, 2dr sport coupe, PS, rustprf, AM/FM, gold, exc cond, \$6500, B/O, Cecilia, 289-1669

'80 COLT HATCHBACK RS, summer/winter tires, AM/FM, 39Kmi, exc cond, \$3700, Diane, 289-1051

'76 AUDI FOX, 4dr, 4spd, fuel injected, sunrf, 30mpg, no rust, runs great, \$2500, Pete, 279-5742

'79 SAAB 900, 5dr GLE, sunrf, 50Kmi, clean, lt green in+out, gd cond, \$6500, Nanci, 223-8323

'72 OLDS CUTLASS, 2dr cnvrtble, auto, AC, 1 owner, new tires, new top, gd cond, B/O, Jane, 231-2369

'72 SAAB 99EM, std, 1 owner, 92Kmi, mtd SR snows, avg retail: \$1760, exc cond, \$1700, Dan, 231-2345

'80 VW RABBIT, diesel, 4dr, 4spd, 42Kmi, \$3700, Kelly, 223-1143

'73 DODGE CHARGER, 318 auto, 64Kmi, runs well, \$200, Elaine, 258-4138

'79 HONDA ACCORD, 5spd, htchbck, silver, exc cond, \$3500, Miriam, 247-2831

'78 SUBARU DL, 2dr sedan, auto, 4cyl, AM/FM, rear defog, \$2800, Gayle, 251-1845

'74 CAMARO LT, AC, auto, tlt whl, AM/FMcass, comp restored, white, exc cond, \$2500, B/O, Joanne, 231-7290

'74 FORD GRAN TORINO, 4dr hrdtop, 302, doesn't burn oil, new tires+trans, AM/FMcass, \$500, Ray, 231-6414

'76 PEUGEOT 504D, \$2500, Rod, 223-3980

'82 CHEVROLET CAVALIER STA WGN, 12Kmi, auto, many options, R+H, \$6600, Gerard, 288-6560

CARS

'83 PONTIAC FIREBIRD, 17Kmi, V6, AM/FMcass, tinted glass, rustprf, rear spoiler, B/O, Steve, 249-4212

'79 TOYOTA CORONA, 4dr sedan, auto, AC, rear defog, 4cyl, AM/FM, brown, \$4900, B/O, Leslie, 234-4568

CARS continued

'81 CADILLAC FLEETWOOD BROUGHAM D'ELEGANCE, fully equipped, wire whls, exc cond, Leroy, 242-2733

'82 CHEVY CAVALIER, exc cond, extras, Ruth, 251-1855

'71 VW SUPER BEETLE, runs well, High radials, some rust, AM/FM, studded snows, \$700, neg, Wendy, 231-6319

'75 CHEVY NOVA, 6cyl auto, 2dr htchbk, PS, gd running cond, \$1100, Richard, 223-7480

'75 DODGE COLT, 68kmi, no rust, no dents, auto, AM/FM, 4new tires, new brks, green, \$1650, K.Y., 225-5799

'76 PLYMOUTH SCAMP, 6cyl, 2dr, 4spd/OD, 87kmi, rust-prf, gd body, 4gd tires, \$850, B/O, Frank, 223-4546

'76 FORD BRONCO, 4 whl drv, 302 auto, 2Kmi, re-blit eng, mech perfect, AM/FM, \$1800, Jean, 231-4380

'78 FORD FAIRMONT, V6, auto, 2dr, AM/FM, new rack+pinion steering, 2radials, \$2500, Sandy, 223-1871

'82 SAAB TURBO APC, 3dr, AC, AM/FM, 5spd, sunrf, silver, exc cond, \$13,900, Ed, 223-6736

'76 CHEVY MALIBU, 4dr, 6cyl, 19mpg, AM, new tires, one owner, gd cond, \$2000, Mitch, 288-6658

'74 VW DASHER, 4dr, 4cyl, 4spd, low mileage, radials, 28mpg, gd cond, \$1800, Debbie, 282-2060

'76 CHEVELLE, 6cyl auto, PS, PB, 2dr hrdtop, many new parts, gd cond, \$1000, Bill, 231-6759

'81 DATSUN WAGON, 16kmi, \$5000, Tom, 247-3168

'81 MAZDA RX7 GS, loaded, stardust blue, \$8500, Dave, 251-1283

'81 SAAB 900S, 5spd, AC, AM/FM, 28kmi, black, rust velv int, exc cond, \$8500, Gale, 257-1281

'76 CAMARO, 250 CID/6cyl, gd mechanical cond, a-little rust, \$1200, B/O, Allan, 279-5526

'74 OLDS CUTLASS, 4dr, auto, new mast cyl, H2O pump, re-blit trans, new rear brks, \$500, Cheryl, 233-2216

'74 VW BUG, gold, sunrf, low miles, AM/FM, recently tuned, vy gd cond in+out, \$1700, B/O, Paul, 485-6807

FURNITURE

ANTIQUA MIRROR, Federal style, solid mahogany frame, exc cond, \$100, Betsy, 223-5744

COFFEE + END TABLES, maple, \$60, Beverly, 231-4578

BED, Calif king sz, artist designed, shedu wood, w/foam matt + 2 nite tbles, \$500, Joyce, 223-2077

MATTRESS, queen sz, "Bodypedic" ultra-firm, orig \$250, 2mos old, \$100, Dave, 234-4773

DINING RM SET, table, 4chairs, traditional style, exc cond, \$375, Don, 279-5422

LOVE SEAT SOFA BED, colonial, floral pattern, orange, grey, brown, exc cond, \$180, Cheryl, 279-5709

DOUBLE BED, w/frame, bxspring, matt, hdboard, \$50, Arthur, 231-6970

BEDROOM SET, 7pcs, qn sz bed, 2nite stands, bureau, 2 mirrors, chest of drawers, \$500, B/O, Steve, 223-9553

WATER MATTRESS, qn sz, quilted, motionless, foundation+frame, w/automatic heater, Charles, 223-6064

SOFA, traditional tufted 3 cushion sofa, rust, 90", \$250, Chris, 269-2281

PORTABLE BAR, contemp, 4stools, 5' long, padded frnt+ sides, lt brown wood top, \$150, B/O, Adele, 231-7522

LIVING RM SET, 3pc Broyhill trad set, chair, love-seat+sofa, floral print, \$400 firm, Debbie, 273-3483

LANE BEDROOM SET, qn sz hdboard, frame, nite stand, trpl drsr, 2mirrors, armoire, \$950, Lesley, 249-4042

TWIN BED + DRESSER, includes frame, bxspring, matt, head+foot boards, \$100, Arthur, 231-6970

LOVESEAT, Seand Design, overatuffed pillows, 2yrs old, oatmeal beige, \$200, B/O, Karen, 249-4457

LIVING RM SET, contemp, sofa, loveseat, end tble, brown+beige, like new, B/O, Patricia, 249-1865

MISCELLANEOUS

COLOR TV, 19", exc cond, just cleaned, \$225, Karen, 223-5278

RUG, 10x12, rust-brown, plush, \$150, Al, 223-5193

WOOD STOVES(2), All-Nighter, UL approved, smaller: \$200, lrger one: \$300, Barbara, 223-6400

TROMBONE, Cleveland 605, like new cond, w/case, \$175, Maureen, 223-7396

MOTORCYCLE SADDLE BAGS, soft, canvas type mat'1, water-resistant, black, \$25, Ken, 223-5011

GAS TANK, for '70 midsize Chevy, gd cond, \$30, Steve, 225-5044

U.S. PROOF SETS, 1970-74+77, sold separately, call for indiv prices, Joe, 223-9392

PIANO, Wuriltzer console, black, w/bench, \$800, Sandra, 234-4264

SOUND MOVIE EQUIPMENT, Bell/Howell, hardly used, exc cond, \$500, Carla, 276-9605

SEARS DIE-HARD BATTERY, less than 300mi, no maint needed, "the best", \$48, Jack, 223-6900

WEDDING GOWN, sz 10, designer, Qn Elizabeth style, long train, beaded torso, \$150, B/O, Sue, 275-6135

SOUND MOVIE CAMERA + PROJECTOR, Canon, f1.4 lens, autozoom 6X, Super 8, like new, \$500, Tim, 225-4139

PA SYSTEM, 100 watt, 4 chnnl, lists for \$1095; Sure mike + stand, B/O, Jack, 223-4995

SCREEN HOUSE, 11'diam, used one season, vy smart, \$250, B/O, Charlie, 231-4269

TURNTABLE, Dual 510, semi-auto, cartridge, exc cond, \$85, Steve, 231-5849

BICYCLE CARRIER, trunk mount, folds for easy storage, exc cond, \$20 firm, Scott, 231-7745

ULTRALIGHT AIRPLANE, safe, reliable flying, 85 hr T.T., no license needed, \$3300, Gerry, 223-6823

GARRARD TURNTABLE, Shure cartrdge, custom cover; SANSUI AMP, both exc cond, \$50 ea, Bea, 231-4450

TIRES(2), sz 185/70 SR 14, stl-bltd radials, brand new, mtd on Celica rims, \$125, B/O, Tracy, 257-1234

TIRES(4), UniRoyal stl-bltd radial BW, P195/14, 4: \$150, pr: \$80, 1: \$50, Larry, 288-6302

CAR STEREO SPEAKERS, Panasonic coaxial 4"x10", 10 watt rating, 1yr old, \$45, B/O, Joan, 231-6767

INTELLIVISION, 20 cartrdges, dust box w/cartrdge holder, 2 Joy sticks, \$350, Chris, 234-4429

'80 DATSUN 200SX MANUAL+PARTS, manual, thermostat, wiper blades, filters, hoses, \$30, Allen, 223-8356

SNOW TIRES(2), radial studded, P195/75 R14, used 1yr on Gran Prix, gd cond, \$60, B/O, Joan, 231-6767

SNOW BLOWER, Sears Craftsman, 21", power propelled, 2 stage, like new, \$300, B/O, Cecilia, 289-1669

KAYPRO II PORTABLE COMPUTER, lots of software, \$1500, John, 249-4678, leave msg

FIRE WOOD, green wood prices, cut to order, delivered, \$80/cord, Kelly, 223-1143

WIDE ANGLE LENS, SLR lens for Minolta, 28mm f3.5 Rokkor lens, perf cond, \$20, Ernie, 289-1563

ROTOTILLER, Simplicity 8HP, \$500; BOAT, 12', w/motor, trailer, accessories, \$800, Bill, 223-9938

TOY BOX, knotty pine, eagle + toy soldier decals, gd cond, \$20, B/O, Adele, 231-7522

ELECTRONIC FLASH, fits Polaroid One Step + Pronto cameras, like new, \$15, Bill, 223-0472

BALDWIN ORGAN, electric console, 2 keyboards, ba+bench, \$395, B/O, Jack, 223-4995

SNOW BLOWER, 10HP, 33" cut, 2 stage, elect start, big tires/chains, 3 1/2 yrs old, \$695, B/O, Ken, 282-2107

GOWN, sz 12, white dotted swiss, off the shoulder, full skirt, never worn, B/O, Karen, 276-9604

TI CALCULATOR, "Programmer" model, \$20, Ty, 231-5616

ROBIN PERS COMPUTER SYS, VT180-AR, VT18X-AR, LA34-AA, RX180-AE, LA34-AL, call for \$, Chuck, 225-6415

ELECTRIC BEER SIGN, Carling Black Label, working light + clock, \$35, B/O, David, 251-1618

SHOWER DOORS(2), glass, 1 silver w/glass 34"x62", 1 door w/panel, 34"x70", \$35 ea, Elaine, 278-4645

STEREO SYSTEM, Technics, Phillips, Aiwa, Ohm-L, \$825, B/O, Rocco, 231-4489

FLEA MARKET SPACES(2), two double spaces for DEC Flea Market, June 11th, Gloria, 223-9038

TYPEWRITER, Smith-Corona, manual, gd cond, \$50, Michelle, 231-6406

TIRE(1), Sprint R70 stl-bltd radial, P195/R13, brand new, never used, B/O, David, 251-1618

MOTORCYCLES

'78 YAMAHA 650 SE, 13kmi, new tires, chain, custom seat, extras, exc cond, \$1500, Jack, 223-4995

'80 SUZUKI GS550E, 14kmi, lugg rack, back rest, real clean, black, \$1100, George, 247-2366

'80 MOTO-GUZZI V50-II, 1000mi, crash bars, exc cond, \$2300, Tim, 225-4197

'77 BMW 750, 5900mi, Luftmeister fairing, Krauser bags, mint cond, B/O, Ron, 236-2792

'78 SUZUKI GS750, new in '79, showrm cond, 7kmi, many extras, not a scratch, \$1800, Gary, 223-7641

'78 YAMAHA IT 400 DIRTBIKE, runs great, vy fast, \$700, Jenny, 251-1308

'75 HONDA CB360T, 9Kmi, \$600 firm, Nancy, 278-4075

'82 YAMAHA VIRAGO 750, 3kmi, hi-way pegs, sissybar, side pipes, orig parts+manual, \$2700, Ed, 249-4705

'81 YAMAHA 250 TT, exc running cond, helmet, goggles, tools, \$750, Kyle, 231-6135

'80 YAMAHA XS400, 7kmi, just tuned, new rear tire, sissy bar, 2 helmets, \$850 firm, Nancy, 223-3383

'76 SUZUKI GT 500, 67kmi, bags, bar, \$800, Jean, 223-4350

PETS

FREE KITTENS, 3 white, 1 black w/white, rdy 6/2, used to dogs+kids, Polly, 234-4481

SILVER-PERSIAN KITTENS(4), registered, avail 6/1, first come, first served, \$250 ea, Hugh, 231-5755

GERMAN SHEPHERD, 9mo old F, all shots, wormed, pure-bred, affectionate, \$150, B/O, Bob, 223-4848

FREE CAT, 10mo old M, black + white spotted, David, 223-9046

AKC COCKER SPANIEL PUPS, 9wks old on 5/10, 1 M buff, 1 F buff, \$200, Georgette, 235-3313

FREE KITTENS, males: B/W, black, grey, long-haired yellow; 1yr old F white+tiger, Barb, 223-1889

TOULOUSE GOSLINGS, \$5 ea, Jim, 231-2312

DOBERMAN PUPS, purebred, shots, tails+ears clipped, 1 red M, 1 black F, \$300, B/O, Debbi, 223-3585

REAL ESTATE

ACTON, Drummer Farms twnhse, 3bdrm, 1 1/2bath, fam
\$86.5K, Jeff, 276-9137

LANCASTER, 2family, 2bdrm ea, colonial, 1.25acres, gd
area, 20mins to Mayn, Marl, NH, \$74.9K, Dan, 223-9464

EASTMAN-GRANTHAM, NH, building lot, vacation/yr-
round community, \$15.9K, B/O, Judy, 223-2353

WESTBORO, 4bdrm cape, 2bath, new kitch, fam rm, 3/4
acre, \$92K, Claudia, 276-9490

ACTON, 7rm colonial, 4bdrm, 1 1/2bath, 1/2acre hill-
top, sunny, quiet fam area, \$119.5K, Rich, 225-4898

AUGUSTA, ME, '81 3bdrm Burlington mobile home,
14x70, full bath, pitched rf, W/W, \$21K, Ray, 223-7519

NASHUA, twnhse condo, 2bdrm, cath ceil, skylight, end
unit, loft, gar, DR, 1 1/2bath, \$65K, Janice, 221-5659

BERLIN, MA, 3bdrm colonial, 2 1/2bath, 3/4acre, 3seas
porch, 2car gar, wd stove, more, \$109K, Dave, 276-9695

MARLBORO, 2bdrm condo, fully appl eat-in kitch,
microwave, nr Rts 20+495, \$39.9K, Susan, 279-5436

HUDSON, 3bdrm antique home, 8-10rms, frplc fam rm,
tin ceiling in kitch, more, \$105K, Dave, 234-4912

SHREWSBURY, 3bdrm split, 2bath, lrg deck off kitch,
fenced 1/3acre, dbl gar, \$89.9K, Walter, 225-4593

RECREATIONAL VEHICLES

SAILBOAT-CANOE COMBO, 16', fiberglass/wood, seats
2+, sails+hardware, eng mt, \$700, B/O, Kevin, 273-3203

BOAT, Penn Yan 14', 25HP Johnson w/electric start,
trailer, \$300, Bob, 223-3365

PUFFER SALBOAT, 12', fiberglass, main, jib, vests,
e docking at LakeBoone, \$1200, Will, 276-9708

INTERCLUB SAILING DINGHY, 12', 3 diff sails, wood+
glass cntrbrds, lton trailer, \$650, Ed, 249-4705

STARCRAFT CAMPER TRAILER, pop-up, slps8, icebx,
sink, stove, solid rf, \$950, Dan, 276-9673

TENT TRAILER, Viking, 1 yr old, \$2750, Tom, 247-3168

RENTALS

OCEAN COTTAGE, Marshfield, BrantRock, slps9, heated,
Jul-Aug: \$500/wk, June+Sept: \$300/wk, Karen, 234-4412

HOUSE, Maynard, 4bdrm, gar, sunporch, yard, gd area,
walk to DEC, avail 7/1, \$700/mo, Pat, 223-1249

SUMMER RENTAL, M. Conway twnhse, pool, tennis, 3bdrm,
jacuzzi, dshwshr, W+D, weekly, Bruce, 288-6101

CONDO, Falmouth, slps6, tennis, pool, sauna, fully
furn, playground, Aug: \$600/wk, Phil, 284-3210

APT, Clinton, 3rm, 1bdrm, \$300/mo includes all
utils, Denis, 225-6087

HOUSE, Falmouth, slps6, 100 ft to salt water, fully
equipped, quiet family area, \$375/wk, Paul, 223-2438

HOUSE, Martha's Vineyard, Oaks Bluff, in-seas: \$400/
wk, off-seas: \$275/wk, Russ, 275-6134

APT, 2fam house, Fitchburg, 4rm, 2bdrm, sunporch, W/W,
avail 8/1 or earlier, \$365/mo, Chuck, 241-4598

COTTAGE, coastal ME, 2bdrm, yr-round, on saltwater
river, gd boating+fishing, \$250/wk, Cam, 259-3817

VACATION HOME, Boothbay, ME, 2bdrm, passive solar,
cove, Jul-Aug: \$350/wk, Sept: \$250, Ron, 231-5222

Cambridge duplex, 5rm, 10min to Harv Sq, yard,
prking, \$550/mo, Jacqueline, 235-3305

SUMMER COTTAGE, Bridgeton, ME, 3bdrm, lakefront, lrg
deck, priv beach, fishing, \$300/wk, Geoff, 223-3843

APT, newly renov kitch+bath, 3rms, quiet area, gas
utils, avail immed, \$310+utils, Fred, 273-3528

SUMMER RENTAL, Loon Mtn, NH, lux condo, slps8, fully
equipped, spa, tennis, pool, \$300/wk, Carol, 275-6207

DUPLEX, Winchester, 3bdrm, 2 1/2bath, frplc, close to
town, train, avail 7/1, \$900+utils, Linda, 249-4734

COTTAGE, Pocasset, slps4, walk to beach, golf, boat
mooring inc, tennis, \$175/wk, Frank, 223-9878

TOWNHOUSE, Hyannis, 7/2-7/9, slps4, enc pool, furn, nr
beach, full kitch, babysitting, \$400, Elaine, 251-1050

COTTAGE, S. Dennis, 2bdrm, frplc, porch, nr beach,
avail June-Sept, \$325/wk, Karen, 225-4602

HOUSE, S. Yarmouth, Bass River, slps6, enc porch, nice
area, June: \$245/wk, 7/9-7/16: \$375, Roger, 274-6904

LAKEFRONT COTTAGE, southern NH, slps7, priv beach,
boat, \$185/wk, Leo, 288-6458

LAKE VIEW HOUSE, Ft. Meadow, 2bdrm, form DR, den, 20
min to any DEC fac, \$600+utils, Terry, 231-4152

COTTAGE, Falmouth, 2bdrm, quiet st, overlooks Great
Bay, walk to Hghts beach, \$300/wk, George, 259-3771

SUMMER COTTAGE, Little Sebago Lake, ME, 3bdrm, slps7,
100yds to beach, no pets, \$140/wk, Vic, 273-3199

FURNISHED ROOM, West Concord, June-Sept, non-smoker,
kitch priv, quiet st, \$45/wk, Paula, 251-1574

COTTAGE, Hampton Beach, 1bdrm, lrg deck, lblock from
ocean, \$225/wk, Doug, 269-2101

PROVINCETOWN, rooms, studio and cottage on the
ocean, rates start at \$25/day, Don, 223-7285

LAKEFRONT COTTAGE, Hillsboro, NH, slps4, \$200/wk,
wkend-off-seas rates avail, Susan, 231-6147

COTTAGE, W. Dennis, 2bdrm, .6mi to W. Dennis beach,
nr ctr of town, \$300/wk, Barbara, 231-6852

VACATION HOME, Dennisport, lblock to beach, 3bdrm,
frplc LR, deck, eat-in kitch, \$270/wk, Tom, 231-5145

HOUSE, Lt Island, Wellfleet, Cape Cod, 3bdrm, 2bath,
deck, woodstove, W+D, Rod, 221-3980

SUMMER HOUSE, S. Yarmouth, 3bdrm, fully furn., .7mi to
beach, \$350, multi-wks, George, 232-2542

HOUSE, E. Falmouth, 3bdrm, close to beach, avail
July, Aug, \$350/wk, Ellen, 292-2235

HOUSE, Bolton, lux 4bdrm contemp, 2bath, sauna, 2
frplcs, \$825/mo + utils, Brenda, 278-4392

WEST HARTWICH, 2bdrm, walk to beach, avail Aug,
Bruce, 288-6101

APT, Marlboro, 1st floor, 2fam house, 4 1/2rm, laund
hookup, avail 7/1, \$425+utils, Karen, 231-6569

HOUSE, Southboro, waterview 5rm older home, 2bdrm,
no kids/pets, \$10K/yr+utils, Bonnie, 288-6096

STUDIO APT, Northboro, porch, priv ent, nr Rts 20+
495, hrdwd floor+crpt, \$300 heat inc, Lynn, 279-5323

VACATION HOME, Buzzards Bay, Swifts Beach, 3bdrm, walk
to ocean, avail June-Sept, \$285/wk, Frank, 279-5587

ROOMMATES

HOUSEMATE, Framingham, non-smoker, 3bdrm, frplc, lrg
yard, porch, \$250 includes all, Howard, 223-1293

ROOMMATE, non-smoker, 3bdrm house on lake, lrg LR,
frplc, lrg porch, \$275+1/2utils, Mary, 225-4604

ROOMMATE, share house in Lancaster, MA, 2rms to
yourself, \$250, Diane, 288-6059

HOUSEMATE, M/F, 6rm house in Hudson, Lake Boon, nr
ML-PK-HL-MR-LM, \$140+1/3utils, Michael, 225-4738

HOUSEMATE, F, smoker, 2bdrm, lakefront in Hudson,
laund, 2car gar, \$275+1/2utils, Bill, 273-3440

ROOMMATE, M/F, 2bdrm Marlboro apt, \$285 includes
heat, lights, phone, cable, pool, Jim, 278-4000

HOUSEMATE, M/F, non-smoker, 2bdrm, 2story twnhse,
Boylston, \$250+1/2utils, Howard, 225-4955

ROOMMATE, M/F, share 2bdrm 1st flr apt in Water-
town, \$225+1/2utils, Al, 273-3480

HOUSEMATE, F, 3bdrm contemp, rural Nashua, on Mass
line, \$45/wk utils included, Jane, 249-1774

ROOMMATE, share 2bdrm apt in Marlboro, AC, carpet,
quiet, \$225/mo+1/2utils, Roger, 225-6311

ROOMMATE, F, non-smoker, share lakefrnt home w/
woman+small daughter, \$260+1/2utils, Katy, 231-4358

SPORTING GOODS

10 SPEED BIKE, girl's, used 3-4 times, mint cond,
\$70, Karen, 223-6517

MOPED, '79 Motobecane, \$500, Bill, 223-9938

CHILDREN'S BICYCLE, bike for young boy, age 6,
less than \$30, Bob, 276-9072

SQUASH RACKET, Slazenger Panther, vy gd cond, \$10,
Sonia, 234-4284

BICYCLE, girl's Schwinn Sting Ray, blue, exc cond,
\$50, Lyana, 223-4231

SLEEPING BAG, White Stag, w/Hollifill II, gd to
-35, orig \$120, red, seldom used, \$50, Ken, 223-5011

ROLLER SKATES, top qual for rink or outdoor use,
new cond, sz 8 1/2 womens, \$60, John, 289-1573

MOPED, Puch Freeport, mint cond, w/helmet, \$450,
Bob, 223-6615

continued

MARKETPLACE CF02-3/K23

Type or print clearly. Ads are published on a first-come, first-served basis. The full name
and 7-digit DTN number is required. Home phone numbers will not be printed.

CATEGORY _____

ITEM _____

DESCRIPTION _____

PRICE _____

DTN _____ LOCATION-M/S _____

NAME _____

first last (only 1st names are printed)

The marketplace

SPORTING GOODS continued

GIRLS BICYCLES(2),24"whls,3spd,gd cond,\$25ea,
Joe,223-8596

BICYCLE,Ross 20,convertible,1yr old,red w/chrome
fenders,perf cond,\$75,Warren,273-3201

10 SPEED BICYCLE,Royal Union,27"whls,used vy
little,\$150,Jan,279-5372

WANTED

HOUSE LOT,in Westford,2+acres,Sharon,274-6869

TRAINS,Amercian Flyer Post War,Charlie,223-2848

KITCHEN CABINETS,birch,used,Barry,225-6534

HOUSE RENTAL,2 prof Fs,3bdm in Hudson-Marlboro-
Stow,up to \$600+utils,Sheryn,225-4908

ELECTRIC DRYER,will buy or trade for gas dryer,
Bill,276-9460

LA50 PRINTER,in exchange for new LA34 from Robin
offer,Bill,231-6212

ROTO TILLER,5HP or more,Arnetha,231-7183

BED FRAME,dbl-sz bed frame on casters for
carpet,Ruth,292-2278

AIR CONDITIONER,6000-10,000 BTU,2-3yrs olds,115
volts,John,223-4872

COMPUTER,Apple III,monitor,floppy,RS 232 inter-
face,printer,Charlie,279-5296

10 SPD BIKE,men's or women's,Mike,231-7245

SIAMESE KITTEN,M or F,Elizabeth,279-5450

DISK DRIVE,5 1/4"dual floppy unit for Robin
system,Bob,288-6734

THINK-A-DOT,Dr. Nim,Digicom, and other logic or
computer toys,Dick,231-5483

CASSETTE DECK,orig equipment for '82 Mazda 626,
Daniel,231-6841

BABY FURNITURE,crib,dresser,dressing table,in
exc cond,Nina,269-2223

LA-34 PRINTER,for a Robin system,gd cond,Roland,
223-3335

EXERCISE BIKE,speedometer,odometer,expansion
tension,\$50 or less,Lennette,223-2864

3 SPD AUTOMATIC RECORD CHANGER,w/45rpm spindle
attachment,Greg,223-9481

OLD DECMATE WP SYSTEM,in gd working cond,
Richard,223-9602

CARRIAGE HOUSE,to rent starting Sept,Brian,
249-4429

AIR TRAVEL COMPANION to accompany wolfhound
puppy,Dublin to Boston,late July,John,231-5193

REAL ESTATE,3bdm house in Falmouth,on water,
Sophia,249-4455

CORNET PLAYER,for traditional Dixieland Jazz
band,George,225-5023

APT TO RENT,analyst+daughter,lrg 2bdm in gd
school district,rent or rent/buy,Iy,231-5616

CHILDREN'S STROLLER,Jim,231-2312

CHILD-LIFE SWING SET,at least 2 swings,under
\$100,Phil,249-1767

TIRES,16.5",on or off rims,no snows,David,
273-3323



TICKET SALES

U.S. Pro Tennis Championships

Longwood Cricket Club
Chestnut Hill, Mass.

WHEN: Sunday, July 17 - Semi-Finals

TIME: 1:00 p.m.

TICKETS: Reg: \$13 Employees: \$9

Orders must be received by June 13.

Pick up order form from your local em-
ployee activities office.

Bermuda Holidays

Cruise to Bermuda - September 3 to 9
COST: Starting from \$450 per person

Bermuda Holiday - October 10 to 14
Cost: \$639 per person based on double
occupancy

See your local employee activities office
for further information.

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority

Employees and their families can ride the
ferry to Martha's Vineyard and Nantucket
Island at discount prices from April 15 to
October 15 by presenting the attached
coupon at the Steamship Authority.

Where: Woods Hole to Martha's Vineyard

Cost: Adults: \$6.00

Children (5 to 13): \$3.00

Where: Woods Hole or Hyannis to Nan-
tucket Island

Cost: Adults: \$12.80

Children: (5 to 13): \$6.40

Children under five are not charged.

Lake Winnepesaukee

WHEN: Saturday, July 30

We will depart Parker Street (PK3) Parking
Lot promptly at 1:00 p.m. and travel to
Lake Winnepesaukee at the southern edge
of the White Mountains. After arrival in
Wolfeboro, we will board the M/V Mount
Washington and our cruise will depart
Weirs Beach sailing past picturesque
coves and bustling mariners. Included on
board this evening will be a delicious Lob-
ster Clambake Dinner. A band will provide
music for dancing under the stars. Arrival
home will be at approximately 12:30 p.m.
COST: \$33.00 per person, INCLUDES:
Transportation, cruise and clambake din-
ner.

Orders must be received by July 12.

The Kennebec River: A Whitewater Wonderland

WHEN: July 22-July 24

Your Kennebec River rafting adventure will
include:

- Round trip transportation and two nights
at the Sandy Bay Campground on Moose-
head Lake (Tents provided)
- One day of whitewater rafting on the
Kennebec River
- Five meals (2 country breakfasts, 1 steak
lunch, 1 picnic lunch and a lobster clam-
bake)
- Shuttle to Squaw Mountain Lodge for
Saturday evening entertainment
- Floatplanes, canoes, outboards, horse-
back riding and guide service also avail-
able for an additional charge.

COST: \$134.50 per person includes tax
and service.

See your local employee activities office
for special order forms.

Orders must be received by July 8.



DIGITAL EQUIPMENT CORPORATION 1983 STEAMSHIP AUTHORITY

Employee Name: _____

No. Adults _____ No. Children _____

WOODS HOLE TO MARTHA'S VINEYARD _____

WOODS HOLE TO NANTUCKET _____

HYANNIS TO NANTUCKET _____
(South Street Dock)

DATE: _____

DISCOUNT VALID FROM APRIL 15th to OCTOBER 14th, 1983

ONE COUPON GOOD FOR ENTIRE PARTY

**YOU MUST PRESENT THIS COUPON OR
PHOTOCOPY OF IT WHEN BUYING YOUR
TICKETS TO RECEIVE DISCOUNT.
BADGES WILL NOT BE ACCEPTED**



Clip and Save

COMPUTER CORNER

Find out how to cut down on computer costs by contacting the Computer Transportation Department, DTN 223-7029

Call the following DTN numbers to join these routes.

VANPOOLS

To Maynard

From Egleston Square, Roxbury, Jamaica Plain, Monument, Harvard Street, Allston, Cleveland Circle, Routes 9, 20 and 27, Tony Santos DCV #81, 223-4725

From Plymouth, Marshfield, Hanover, Weymouth, Braintree, Jack Carter DCV #45, 223-3679

From E. Pepperell, Groton, Littleton, Harry Aikens DCV #16, 223-9435

From Burlington, Route 128 Area, Jim Byrne DCV #23, 223-4168

From Worcester, Auburn, Shrewsbury, Jack Downing DCV #117, 223-6843

From Framingham, Natick Area, Thomas Martin DCV #43, 223-4240

From Gardner, Westminister, Doug Neale DCV #108, 223-5836

From Billerica, Bedford, Al Roemer DCV #74, 223-9408

From Porter Square, Cambridge, Arlington to Mill and Parker Street, Elissa Vestlake-Fay DCV #115, 223-9227

To Maynard/Littleton

From Amherst, NH, Doug Ryder DCV #67, 229-6243

To Maynard/Nagog

From Townsend, Groton, Mike Fortunato DCV #17, 223-4592 or 223-4814

From Salem, NH with stops at ACO and LJO as requested, John McShane, 282-2031

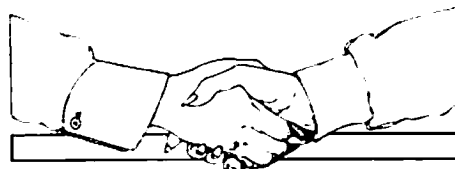
To Maynard/Stow

From Hudson, Nashua, NH, Bob Hoglund DCV #75, 223-5513

FORMING VANPOOLS

To Shrewsbury

From Maynard (November start date), Serge Martel, 276-9340



EMPLOYEE KUDOS

The purpose of this column is to recognize employees who have achieved community or professional honors or recognition. Contributions should include the employee's name; position and group; the award/office/honor; the group giving the honor and the date presented.

Bruce Holbein, manager of Government Relations, received the Associated Industries of Massachusetts (AIM) Citation for Distinguished Service in Public Affairs.

The award recognizes assistance to AIM through its Government Affairs Program by participating in its activities and by communicating the concerns and points of view of Massachusetts industries to government officials.

Bruce Davidson, corporate manager of the Employee Assistance Program; **Dan Fritz**, Benefits Program Planning manager; and **Laura Morris**, Urban and Community Affairs manager, will present workshops at the Second Annual Conference on Industry and Mental Health. The conference, called "Managing New Workforce Issues: Changing Demographics, Work and Family Stress," will be held June 6 and 7 at Boston University.

Karen Weeks, senior legal secretary, has been named Worcester County Legal Secretary of the Year. The selection of Secretary of the Year is made by the Worcester County Legal Secretary group, a peer group of legal secretaries who meet to coordinate legal activities, review court revisions and share current advances in the profession.

Tewksbury sponsors 10K race

Digital's Tewksbury facility will sponsor its first 10K roadrace on Saturday, June 11. Entry is open to the public in the following male and female divisions: 17 and under; 18 to 29; 30 to 39; 40 to 49; and 50 and over. Trophies and medals will be awarded to the top three finishers in each division. Ribbons will be given to all finishers.

The measured 6.21-mile loop will start on Digital's Tewksbury property, 1925 Andover Street, at 10:00 a.m. and go through Tewksbury and Andover. There will be a nurse on-site, refreshments, timed mile splits, water stations and computer-

ized race results.

The race is limited to 500 entrants. Entry fee is \$5.00 and will be accepted until 9:30 a.m. on the race day.

Entry blanks may be obtained from Pattie Martel, DTN 247-3075, TWO/D19. They should be mailed with payment to Keith Kowalezyk, 150 North Street, Tewksbury, MA 01876. Checks should be made payable to Digital 1st Annual 10K Run.

Everyone is invited to watch. For further information or directions, call Keith Kowalezyk, (617) 851-5273.

Digital announces 10 megabyte mini-Winchester

A new, 5.25-inch, ten-megabyte Winchester-technology disk is now available for Digital's small business and personal computer systems. Called the RD51, the new disk is the second member of Digital's line of 5.25-inch Winchester-technology storage products. It interfaces with the Professional 350 personal computer and the MICRO/PDP-11 low-cost computer for Original Equipment Manufacturers (OEMs) and high-volume end users.

Developed for use in both office and industrial environments, the RD51 mounts in the computers' system packages. The RD51 has nearly ten times the storage capacity of average 5.25-inch floppy diskette sub-systems. The characteristics of the medium are 345 tracks per inch with a density of 9,074 bits/inch. It has a peak data transfer rate of 5 Mbits/second.

The disk drive is available at \$1,695. Pricing as complete sub-systems with controllers is dependent on the system packaging. As an example, for the MICRO/PDP-11, the disk with controller is \$2,985. Shipments are scheduled to begin this month.

Customers may shop by computer

Customers can now phone-in orders and information requests via Digital's first computerized shopping service. The new system called DECmart, provides customers and sales representatives, who have terminals and modems, with immediate information on pricing, availability, and descriptions of PDP-8 computers and associated products.

Developed by the Traditional Products Group, DECmart enables callers to make purchases and to request sales quotes; obtain product information, including descriptions, pricing and availability; or request a call from a marketing representative. Customers can also leave questions or comments. The electronic-mail-like DECmart operations run with an easy-to-use menu.

Customers can reach DECmart on a 300- or 1200 baud terminal and modem by dialing (603) 884-4424. Access to DECmart is 22 hours a day, seven days a week, except from 3:00 a.m. to 5:00 p.m.

Orders can be placed through DECmart for direct processing to \$25,000. Orders from \$10,000 to \$25,000 will require a confirming purchase order, and orders above \$25,000 will be processed through a customer's local Digital sales office.

Office Automation June course openings

Please note that all course locations are PKO3-1/Pole 8H unless otherwise specified.

Advanced DECWORD June 1-2, 20-21
Advanced Word Processing June 3, 8, 9, 14, 28 (PKO); 17 (MRO)

Basic DECWORD June 7-9; July 5-7
Basic DECWORD for Managers & Supervisors June 13, 29

Basic Word Processing June 6-10 (PKO), 27-July 1 (MRO); 15-17, 20-22, 29-July 1

Basic WP for Managers & Supervisors June 2, 13, 14, 17, 21, 30 (PKO); 1, 15, 20 (MRO)

DECWORD List Processing June 3, 22

DECWORD for WIPS-8 Users June 15, 27

EDT June 6, 16, 30

EMS I June 6, 13, 20, 30; July 5

EMS II June 1, 8, 17; July 1

EMS I for Mgrs & Supvs June 9, 13, 28; July 6

EMS II for Mgrs & Supvs June 17; July 7

Offerings from Ed Services Seminars

For more information or to register for the following courses, call the Seminar Registrar at DTN 249-4949. You may also register by sending a memo with your name, badge number, cost center and cost center manager's approval to: Seminar Registrar, BUO/E58. Software Services employees should contact their Software Services Registrars.

Networking: Design and Implementation of Computer Communications Networks

This three-day technical seminar for anyone involved in the design, use, or selling of networks is a state-of-the-art presentation of fundamental concepts, technology and practical implementation of computer networks. It will include an in-depth discussion of network architectures, components and structures with a focus on complete network design.

June 6-8, Boston, Massachusetts

Ada — A Management Perspective

Ada is a new, general-purpose programming language developing under the sponsorship of the Department of Defense. It incorporates the latest concepts in language design; can significantly reduce software costs throughout the design, implementation and maintenance cycle; and achieves effective transportability of software through precise language standardization. Ada can be used in a wide variety of government, scientific and business environments and may well be the predominant programming language through the end of the century.

This one-day seminar, aimed primarily at technical managers, gives a thorough overview of the current developmental

Intro to Computer Concepts June 2 (TWO), 30 (PKO)

Keyboard Techniques (5 days--2 hrs/day) June 27-July 1

RCS June 14

Using Communications June 10, 28

Using List Processing June 3, 14 (MRO); June 22, 29 (PKO)

Using Math June 15; July 6

Using Sort July 5

Using User-Defined Keys June 21 (MRO), 27 (PKO)

Word Processing to EMS June 7, 16, 27

WS200 System Manager June 2, 13 (MRO); June 6, 20 (PKO)

To Enroll

Please fill out the DME/OA Internal Enrollment Request, available from your local Personnel office, and mail to OA Registrar, PKO3-1/B11. For further information, call the Registrar at DTN 223-5820 or 223-2872.

status and implementation activities of Ada. Attendees will learn how to prepare for Ada, take advantage of interim capabilities, ease the migration from other languages to Ada and plan Ada programs for their organizations.

June 7, Boston, Massachusetts

Design of Applications Under VAX/VMS

This interactive four-day seminar focuses on application design approaches that maximize the use of the hardware and software involved. Three case studies of typical customer applications — data acquisition, process control and transaction processing — show how to exploit system features to achieve efficient design solutions for each application. Upon completion, attendees will thoroughly understand the interrelationship between system hardware and software functionality for design. Prerequisites: The attendee should have attended "VAX/VMS Utilities and Commands" and should have a working ability to program in VAX-11 FORTRAN/MACRO or similar experience on another system.

June 7-10, Bedford, Massachusetts

Executive Computing for the Non-Data Processing Manager

At this three-day seminar, participants will gain an in-depth understanding of how to get things done utilizing BASIC computer language. This seminar is designed for the manager and assumes no data processing background. Participants will have an opportunity to solve problems in a wide range of management applications, including finance, manufacturing, decision making and marketing. The result: executives who understand how to get behind the numbers and get the job done.

June 8-10, Bedford, Massachusetts

Quality workshops offered

Inspection Moderator's Workshops are regularly offered at the Bedford Training Center to train engineers in the mechanics and human dynamics of inspections. Attendees are trained to conduct overviews, train inspectors, lead Formal Inspections and report results. There are no prerequisites for the workshop but attendees should be capable of leading a meeting. Moderator trainees should also be willing to act as inspection moderators for their own and other groups.

The workshop is funded by the Central Quality Group. For more information contact Milt Boyd via the Engineering Network at Metoo:SMW, DTN 381-2137, ZK02-3/M31 or Lou Cohen, Inform::Cohen, DTN 223-6712, MLO3-5/B39.

Upcoming start dates for the two-day workshop are: August 17; and September 21. To register call the Ed Services Registrar, DTN 249-4670.

In Software Quality Workshops, students will develop a definition of software quality; learn how software quality interacts with Digital's business goals; and learn how to plan for, measure, and achieve software quality goals.

The workshop is intended for project leaders, supervisors, and programmers, but anyone involved with developing or delivering a software product will benefit from the course.

The Software Quality Workshop is offered: June 9-10, August 10-11 and September 14-15; at the Bedford Training Center.

Software Testing Workshop utilizes discussion, lecture, and experiment to examine the nature of testing, explore the power and limitations of current testing methods, and consider how to test all aspects of a product throughout its development.

This workshop builds on the Software Quality Workshop, with heavier emphasis on practical techniques. It is offered monthly at the Bedford Training Center and can be scheduled at other locations if the demand justifies it.

The Software Testing Workshop is offered: June 20-22, August 22-24 and September 26-28 at the Bedford Training Center.

The Employee Education Course Schedule contains a schedule of these workshops, which are funded by Central Quality Group. For more information about their content, call Milt Boyd, Workshop Coordinator, methods and Tools Group, at DTN 381-2137.

To register for the Software Quality Workshop or the Software Testing Workshop, contact the Educational Services Registrar at DTN 249-4670.

DME SEMINARS

Digital Management Education's poster for July through December course offerings will be in distribution at the end of June.

Those wishing to take any of the following early-July courses should contact the course registrar on DTN 249-1882.

Key Financial Concepts, July 5-6, Bedford

Counseling Skills, July 6-8, Bedford

Project Management, July 11-12, Bedford

Managing Performance, July 13-15, Bedford

Communication Skills, July 11-13, Bedford

Clark University accepting MBA applications

The Clark University MBA Program is accepting applications for the fall. The program is offered in two locations: Clark University in Worcester and Maynard High School. Both sites offer the same program, taught by the same faculty, and are open to all students enrolled in the MBA program. Classes in Maynard meet once a week, Monday through Thursday from 8:00 to 9:00 p.m.

Employees interested in beginning the program in the fall must submit a completed application before July 31. For information contact Louise Janhunnen, Assistant to the Dean, Graduate School of Management, Clark University, 950 Main Street, Worcester, MA, 01610, (617) 793-7658. Specify if you would like a catalog, application and/or GMAT information.

Learn about All-In-1

Internal Software Services (ISWS) is now offering All-In-1 overviews. The seminars will demonstrate how to use each subsystem, including electronic mail, calendar management, and the spreadsheet program, DECALC. The overviews will also demonstrate a typical task where All-In-1's integration saves the user time and increases effectiveness.

The cost of each overview is \$50. To register, or to be put on the future interest list, call DTN 223-ISWS. June seminars will be held in the Corporate Auditorium (PKO3).

Overviews schedule

General Overview - June 7 - 9:00-12:00 p.m.

Secretaries' Overview - June 7 - 1:00-4:00 p.m.

Manager's Overview - June 21 - 9:00-12:00 noon

General Overview - June 21 - 1:00-4:00 p.m.

Courses from Field Service Training

Satisfaction Engineering II is a two-day seminar developed to assist service personnel in dealing with customers. When a product fails to operate, the consequences can be catastrophic for the user. Digital employees, in addition to having technical expertise, must also develop professional customer relations skills. Through the use of video, role playing, case studies and discussion, this seminar will explore how the customer is feeling and why, how to respond and how responses affect the customer.

The Account Representative Workshop is a three-day workshop designed to familiarize Field Service Account representatives with concepts, principles and applications of specific skills which will allow them to function more effectively. Issues that are discussed are: time management, site standards, account awareness, resources and teamwork. This training will enhance the maintaining and managing of customers' systems.

Satisfaction Engineering II and the Account Representative Workshop will be offered in Bedford on June 20, June 27, July 11, July 25, August 29, September 19 and September 26. To enroll, call the Northeast Field Service Training manager at DTN 227-7072.

Master's in Manufacturing Engineering offered in Lexington

Beginning this fall, the University of Massachusetts' School of Engineering will offer an accredited part-time Master's Degree Program in Manufacturing Engineering. This 33-credit program will be taught in Lexington by resident graduate faculty of the University's Departments of Industrial Engineering/Operations Research and Mechanical Engineering. The program, which stresses quantitative and computer techniques, offers education and training in such areas as: design for manufacturing, the manufacturing process, CAD/CAM, engineering economic analysis, human factors engineering and techniques of manufacturing management.

Admissions requirements are a bachelor's degree in engineering or engineering-related discipline and the Graduate Record Examination (GRE).

For further information and applications, call or write the Office of Extended Engineering Education, 113 Engineering East, University of Massachusetts, Amherst, MA 01003, (413) 545-0063.

Graphics Products offers seminar

The Graphics Products seminar covers a variety of Digital's graphic hardware and software products. The main emphasis is on the Remote Graphic Instruction Set (ReGIS), RGL (both VAX/VMS and PDP-11/RSX-RT-11), GIGI software packages and the VAX Datatrieve plotting capabilities:

Structured labs are part of the Graphic Products seminar and are usually scheduled in the afternoon. A working knowledge of at least one editor which runs on a VAX/VMS system is required.

It is offered July 25-29 and August 29-September 2 at Parker Street. To register for the seminar, Software Services personnel should contact their Regional Software Services Training Registrar. All other personnel should contact the Employee Software Registrar in Bedford at DTN 249-4671 or (617) 276-4671.

Fiber optics

Continued from page 1

installation. He crawled in the third floor ceiling to pull the fiber-optics cables from the Workstation Data Center to the hole leading to the first floor. "I felt like I was making history," Winnie said.

On the first floor, Ted Wojcik, Workstation engineer, had his VAXstation connected via the fiber-optic link to an 11/780 on the opposite side of the third floor. "I was able to check out firmware for the VAXstation demos right away," he said.

How fiber optics work

The basic fiber-optics communications link is a flexible light pipe, with a transmitter at one end, a receiver at the other and an optical cable in-between. The cable consists of an extremely thin glass fiber inside a protective sheath. Overall diameter of higher frequency cables, such as those using graded-index glass fibers, is approximately a millionth of a meter.

When an electrical signal is applied to the transmitter, the transmitter emits pulses of light which are directed down the optical fiber. A waveguiding effect occurs because the fiber has a higher refractive index than the cladding. As a result, the light waves bounce back and forth between the fiber and its cladding, all the way down the cable to the receiver end. At the receiver, the pulses of light are converted back to an electrical signal for subsequent processing.

Because light is the transmission medium, fiber optics offers numerous advantages over conventional copper-wire electrical transmission line including being impervious to electromagnetic and electrostatic interference; being very effective in data security; and having lighter weight and greater strength.

Westboro and Boston make big splash for Heart Association



Westboro challenged the Boston Plant to a relay swim meet to benefit the Heart Association. The losing team, Boston, will make a \$1000 contribution to the Heart Association. Jumping in to represent Boston, (l.) is Raymond Almestica; Dick Becker (r.) takes a dive for Westboro.



In another challenge, Dave Maynard (l.), WBZ-radio personality, swam against Ryan Sypek, nine-month-old son of Muriel and Ed Sypek. Ed, a financial consultant for Westboro Heads Business Manufacturing, collected some \$300 in pledges for the swim.

10th Annual Rodeo Digital drivers demonstrate dexterity off the road



Come and cheer for your favorite trucker at the 10th annual Truck Rodeo, Saturday, June 4 at the Northboro parking lot (NRO1).

Watch Digital's skillful drivers maneuver their 60-foot trailer trucks and straight trucks through a six-part, timed obstacle course to win first, second and third place trophies. Exercises include parallel parking, serpentine weaving between barrels - forward and backwards, alley docking and guiding the 22,000 pound rigs through a straight line of water-filled paper cups. The shuttle van fleet will also compete in events.

Indoors there will be rodeos for forklift trucks, walkie riders and long forks. The events begin at 8:00 a.m. There will be clowns and pony rides for children and refreshments. Company helicopters and antique trucks will also be on display. The rain date is June 5. NRO1 is located on 450 Whitney Street in Northboro. For more information contact Arthur Bartlett, DTN 234-4557.

December Stock payment period to close

The Employee Stock Purchase Plan which began December 19, 1982 will end on Tuesday, May 31. The purchase price can be obtained from local personnel offices on June 1.

All stock purchased on June 1, 1983 will be available to sell as of June 2. To sell, send an RCS or memo to Investor Services in the format printed in the May 16 issue of *Digital This Week*.

Technical seminar

THE TECHNICAL SEMINAR SERIES AT MARLBORO

June 2 2:00-4:00 p.m. DEC 10 Room	The Boolean Vector Machine Dr. Robert A. Wagner Duke University
June 16 3:00-4:30 p.m. Cafeteria - MRO1-2	Digital Culture Bill (B.J.) Johnson VP Systems & Communications Engineering
June 23 3:00-4:00 p.m. DEC 10-20 Rooms	Education and Training at Digital: Show and Tell Lil Holloway and Bruce Bender Employee Education
June 30 3:00-4:30 p.m. DEC 10-20 Rooms	Yale Array Processor: A Dual Processor Architecture Project with VAX 11/780 & FPS-164 Dr. Martin Schultz - Yale University
For updates contact Sue Nathan at DTN 231-6301 or Gereda Pruitt at DTN 231-6769.	