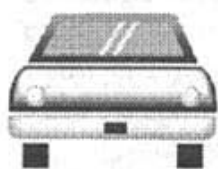




Predicting the Car's Future

Researchers Develop Model to Predict Consumer Behavior

by Anne Jackson, Information Technology Publications



Will Californians embrace the electric car? Who is most apt to buy alternative fuel and electric vehicles? And how many

electric car owners are likely to reside in each region of the state?

Public utilities would like to know the answer to those questions, since they estimate that an electric car sitting in the garage charging away each night will require as much electrical power to run as an entire house.

To plan future power plant facilities, utility companies have to be able to pinpoint where the need will occur, so they are anxious to find a way to factor in how many people will be buying electric cars. The difficulty is coming up with a way to predict who will buy a product that exists, for the most part, only in prototype.

Enter David Bunch and a team of interdisciplinary researchers from the Institute for Transportation Studies. Bunch, of the UC Davis Graduate School of Management, together with Tom Golob and David Brownstone of UC Irvine, has put together a microsimulation model to project California vehicle purchases over the next few years. The project has received major funding from the California Energy Commission, Southern California Edison, and Pacific Gas & Electric, and has generated interest from national and regional public policy planners, as well as auto manufacturers.

Driving the project is a mandate from the California Air Resources Board (CARB) that zero emission vehicles amount to a specified and gradually increasing percentage of vehicles purchased in California. The required percentages range from 2% in 1998 to 10% by 2003.

"We're using a quantitative ap-

Continued on Page 4

Modem Usage Peaks Again

The Division of Information Technology is moving forward on a recommendation to outsource modem service to the campus, and is soliciting Request for Quotes from MCI, AT&T, NetCom, and other vendors.

A Modem Use Committee organized by the Joint Campus Committee on Information Technology (JCCIT) last spring concluded that contracting with a private vendor would be the most effective way of providing modem service to the campus. The recommendation was discussed at the JCCIT meeting on Nov. 17.

Carole A. Barone, Associate Vice Chancellor for Information Technology, told the JCCIT that the campus cannot continue to support a modem bank to meet the demand for service, which is 50 percent higher than it was a year ago.

"We are running out space, and we are running out of battery capacity,"

Barone said. If growth were to continue at the current rate, she said, "it would be costing us more to support the modem pool than it would to support Network 21 in two years."

Calls to the modem pool reached a new high of 29,877 on Nov. 15. Because of the traffic, it is difficult to get dial-in access to the campus network in the evening.

Speaking of the need to provide the campus with alternative modem service, JCCIT chair David Rocke said, "It is important to protect the ability of faculty to teach, and the ability of students to do their work."

The JCCIT encouraged I.T. to negotiate an agreement in which all campus users would receive some free access. The committee also recommended that I.T. discuss the plan with other campus committees, including the Committee on Academic Planning and Budget Review.

Network Will Deliver Literacy Services to 15 Counties

Thanks to a grant from the U.S. Department of Commerce, Information Technology will help develop a 15-county regional telecommunications network aimed at delivering literacy services throughout greater Sacramento and the outlying rural areas of northeastern California and western Nevada.

Dubbed the Net at Two Rivers Literacy and Lifelong Learning Project (N2R-LLL), the network will be developed through the collaborative efforts of over 40 organizations. UC Davis, the Davis Community Network, California State University Sacramento, Sacramento Area Literacy Coalition, Outreach and Technical Assistance Network, Nevada County Community Network, El Dorado County Community Network, and Tahoe Truckee Community Network are among the groups participating in the project.

Vicki Suter of I.T.'s Distributed Computing Analysis and Support is technical project coordinator. Suter, who worked with the other partici-

pants to develop and submit the grant proposal through the Sacramento County Office of Education, traveled with the Net at Two Rivers Executive Directors Cynthia Mulit and Barb Englund to Washington,

D.C. in November to accept the grant and attend program briefings.

The Department of Commerce has awarded \$763,577 under the Telecommunications and Informa-

Continued on Page 4

New Payroll/Personnel Data Warehouse Now Being Tested

Analyzing employee information will take on a new dimension when the new Payroll/Personnel System Data Warehouse goes online next year.

Poised for launching campuswide in April, the new P/PS data warehouse will give campus departments an opportunity to bring payroll and personnel information now available from the UC Office of the President directly to the desktop. What's more, those using the system will be able to answer such questions as how many people they have working in a particular class, or how much they paid out in sick pay in a given month.

"The information is there with a click of a few keys," says project manager Ray Reveles. "The ease of access is really surprising."

Like the UCOP database, the P/PS data warehouse has data on all UC Davis employees, and includes such information as accumulated earnings and information from Personnel Action Forms. Housed in a Unix system SunSparc 20 computer, the new P/PS data warehouse utilizes an Oracle Version 7 database.

Departments will have the same access privileges to the new data ware-

Continued on Page 2

Read E-mail Off Line with Eudora



Tired of camping on the network? Wish you could "pull" your e-mail into your own computer? If so, Eudora is for you. Free to faculty, staff, and students, the Eudora e-mail program allows you to read and store e-mail on your desktop — thus reducing the amount of time you must spend online. Eudora runs on both Macintosh and PC/Windows platforms. You may obtain a copy of the software at Information Express on the first floor of Shields Library. Be sure to bring a 3.5-inch high-density diskette.

Documents Point to Technical Solutions

Recommended Solutions documents published by Information Technology provide information to assist you with hardware and software purchases. Recommended Solutions are available on the following topics:

- Hardware Solutions
- E-mail
- Scheduling Software
- Data Access Tools
- Document Management

To obtain a copy, send e-mail to itpubs@ucdavis.edu or visit the World Wide Web at

<http://www.ucdavis.edu/IT/Solutions/>

How-to Instructions Appear in Directory

Quick reference instructions on how to login, logout, look-up e-mail addresses online, and subscribe to mailing lists appear on Pages 5 and 6 of the 1995-96 UC Davis Campus Directory. Instructions on how to use telephone calling features are found on Page 9.

Technology Tip

When using the newer versions of Netscape (e.g., 1.12) to navigate the World Wide Web, you do not have to type the "http://" command in the address.

Example:

Go to file menu and select Open Location.

Type: www.ucdavis.edu/IT/Solutions/

Quotables

"I still think it would be a very unhealthy thing to have students graded by machines."

—English Professor
Texas Tech University

Courtesy of Edupage

Inside I.T.

Keeping Projects on Track

When your paycheck rolls around like clockwork every month, one of the many people you can thank is Ray Reveles. Reveles and his staff help provide technical support to the computer payroll system, making sure that all 24,000 UC Davis employees receive paychecks on time. Reveles also oversees computer systems that operate the campus budget, salary costing, work study, staffing, and equipment inventory.



Ray Reveles

A programmer/analyst and manager in Information Resources, Reveles is also the main drive behind a number of special projects — the current one being the payroll/personnel data warehouse project scheduled for campus rollout in April. (See story on Page 1).

A 22-year veteran of UC Davis, Reveles has witnessed a sea of change from the early days of campus computing. He remembers when summertime meant slack or catch-up time, and he remembers when supporting campus computing meant maintaining the campus mainframe. But that was before the personal computer revolutionized computing.

More recently, he observes, UC Davis computing has changed in other ways.

"The emphasis has shifted from building by the seat of our pants to utilizing a more structured develop-

ment method," he notes. "Now we have a more professional, architectural approach that produces higher quality results."

Reveles says the other big difference in campus computing is being more tuned-in to industry trends. "There's a real emphasis on utilizing new technology and finding ways to use technology to improve productivity," he says.

"My personal hope is to help lead my unit into a world-class operation."



Earl Bertram and Ted Rallis

Providing Technical Support to Workstation Users

Personal computers hadn't even hit the market when Earl Bertram began his campus computing career. That was in 1978, when as a development engineer for Crocker Nuclear Lab, Bertram served as a consultant to departments using mini computers to do scientific computing.

Bertram helped the Nutrition department build an automated system for weighing rats, and he designed a lab system for the School of Veterinary Medicine. In those days, even the Campus Computer Center was one of Bertram's clients.

Over the years, Bertram has watched the campus move from a central mainframe computing environment to the current distributed

model, in which the bulk of the processing power resides right on the desktop.

Now, as part of I.T.'s Information Resources group, Bertram provides technical support and consultation to users of high-end workstations. His clients range from medical researchers to physicists. Bertram provides technical support and consultation to users of both Unix and VMS systems, but the bulk of his clients use DEC, SUN, or SGI workstations.

Bertram assists customers with software selection, configuration and maintenance. One of his co-workers, Ted Rallis, keeps track of all the software site licenses assigned to some 200 campus departments using technical workstations.

For instance, those interested in taking advantage of the new Oracle site license (See story on Page 3) may do so by contacting Rallis.

"My job is to serve as a liaison between our campus clients and the vendor," says Rallis, who recently graduated from UC Davis with degrees in Computer Science and Philosophy.

While Rallis, like Bertram, works to support technical needs on campus, they share a simple philosophy. That is to keep the customer happy.

Scanner at the CAIT

WordWand, a hand-held scanner, is available for testing at the Center for Advanced Information Technology (CAIT) on the first floor of Shields Library. For more information, visit the CAIT or look-up the evaluation on the Web at <http://cait.ucdavis.edu/content/hardware/short-term.html>

Payroll/Personnel Data Warehouse in Pilot Phase

From Page 1

house as they have had to the existing UCOP-based database — which generally means access to any non-confidential information pertaining to employees in that department. Although departments can already access UCOP-based employee information and view it on their office computers, the existing database cannot be used to download data, analyze figures automatically, or generate ad hoc reports.

To take advantage of the new system, departments need the following:

- A client/server capable PC or Macintosh — minimum power requirement is a 486 PC or Mac Quadra.
- A reporting program to generate queries, reports or extracts. Examples are Brio Query; Microsoft Excel, Access and Fox Pro.
- SQL Net — software that allows

communication between the database and the individual's computer.

- An ODBC driver. This is required software for departments using ODBC-enabled reporting programs like Brio Query and Microsoft Excel, Access, and Fox Pro. Except for the cost of media, SQL Net and the ODBC driver software are available free to campus affiliates under the university's Oracle site license. ODBC driver software also is available from Microsoft.

Information Technology will provide documentation on how to install the SQL Net and ODBC driver software and provide documentation on how to use the new system.

Reveles has been working on the project for the better part of a year, along with Linda Honzik and Dave Squire, both of whom are also with Information Technology.

At Home on the Web

Telecommunications and Travel

<http://www.engr.ucdavis.edu/~its/telecom/>

Look here for a description of the research program on Telecommunications and Travel directed by Patricia L. Mokhtarian of Civil and Environmental Engineering and the Institute of Transportation Studies. The site lists a variety of programs that explore the impacts of telecommunications technologies on travel behavior and related issues — such as air quality and land use. In addition to descriptions of the research projects, the page lists relevant publications and abstracts, and brief biographies of project staff. There are links to related Internet resources.

Employment Opportunities Bulletin

<http://hr.ucdavis.edu/>

The Employment Opportunities Bulletin has listings for positions available at UC Davis and other UC campuses. The Bulletin is updated every Thursday, and jobs are arranged by category. In addition to the Bulletin, this home page includes information regarding compensation services (definitions, policies and procedures, position description templates, resources, and salary scales), Human Resource initiatives, staff training and development courses, and the Workers' Compensation Injury/Illness Checklist.

Computer and Printer Repair (I.T. - CPR)

<http://itcpr.ucdavis.edu/>

Everything you wanted to know about computer and printer repair on campus can be found here. Information about the AppleCare extended warranty program, special offers, troubleshooting tips for known problems with Apple parts, and product updates. This site also features links to the Apple Computer and Hewlett Packard home pages.

New World Wide Web Technologies

<http://lm.ucdavis.edu/NMC/newwww.html>

This page contains information about various plug-ins for Netscape 2.0 which make it easier to transmit multimedia over the World Wide Web. Programs described include: LiveScript, Java, Macromedia Director, Adobe Acrobat, RealAudio, and StreamWorks. You will also find "The Scene is Set for Multimedia on the Web," an article by Dan Amdur, originally published by New Media.

— Compiled by Bonnie Johnston

Do you have a home page you would like published? Send your submissions to us at itpubs@ucdavis.edu

Automating a Business Practice? Help is on the Way

by Debbie Lauriano, I.T. Information Resources

With information technology playing an ever increasing role in our business endeavors, managers are often faced with the challenge of selecting and developing software for office use. To facilitate software acquisition and development, Information Technology's Information Resources group has teamed with Planning and Budget and Enrollment Services to develop a methodology to guide managers through the process.

In developing the methodology, the committee analyzed the steps needed to identify, select, and, in some cases customize, software that meets the business needs of a department.

Called the UC Davis Application Development Methodology (ADM), the process is designed to assist individuals who are responsible for buying packaged software, writing feasibility studies, negotiating with outside vendors for software services, and developing software programs with in-house staff.

The ADM identifies the activities, roles, and deliverables associated with a variety of software development projects, including the following:

- Small System Software Development
- Large System Software Development
- Purchased Systems (installed "as is" or customized)
- Rapid Application Software Development
- Feasibility Assessment Projects
- Object-Oriented Software Projects

Two pilot projects are being used to test and refine the methodology for real world use:

- The first project is an internal Information Technology project managed by Ray Reveles. The purpose of the project is to implement an online system for tracking Information Technology purchasing transactions as well as inventory for projects and services. Information Technology business rules for purchasing will be incorporated into the application.

- The second pilot is a Planning and Budget project managed by Christi Bengard. This project will foster development of an inventory management system that will be used to track usage of campus facilities by various departments, colleges, and programs on campus. The system will be used to report space utilization to Office of the President, and it will provide departments online access to information

about room usage and availability. Eventually, the program will allow individuals to view room floorplans and furniture arrangement online.

The ADM committee will make the methodology available to the general campus after the pilot projects are completed, sometime in mid-1996. Summaries of the pilot projects and subsequent projects using the ADM methodology will be published on the World Wide Web.

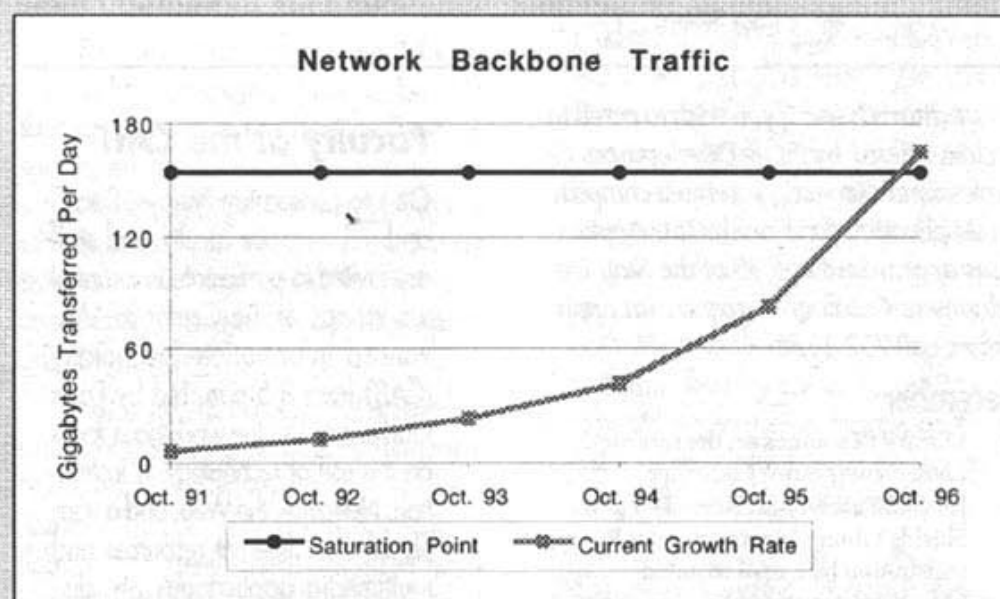
Noon-hour Brown Bag presentations also will be scheduled to introduce the campus community to the methodology.

Once the pilot projects are complete, Information Resources will provide methodology consulting to departments who are engaged in software initiatives.

If you have questions regarding the methodology, contact Debbie Lauriano, by sending e-mail to dalauriano@ucdavis.edu.

Buying Time on the Backbone

Be it analysts downloading financial information or researchers surfing the World Wide Web, the campus is growing more dependent on the campus network. Available usage data indicate that the current campus network will reach its saturation point in October 1996 — roughly 8 months before the completion of Network 21. To keep traffic moving until Network 21 is fully operational, Information Technology will expand the backbone capacity of the current network (UCDNet) by roughly 15 percent. The upgrade will involve installing equipment and extending connections in the new Net-



Graphic by Diana Foster

work Operations Center. Most of the work will be transparent to the campus,

and you will be notified in advance of any anticipated downtimes.

Jukebox Provides Online Access to Software

What do a CD jukebox and two site license agreements have in common? Three things: researchers, workstations, and Information Technology.

Scientific researchers and other users of Sun and DEC workstations now have online access to software programs, upgrades, and documentation through a CD-ROM jukebox. Until now, DEC and Sun users have been required to check out CD-ROM copies of software from Information Technology, and at times users have found it difficult to gain access to desired software and documentation.

"By establishing this software server, we are giving workstation users around-the-clock access to the most up-to-date versions of available programs," says Earl Bertram, an associate development engineer specializing in DEC workstation support.

Guide on the Web

Detailed information on workstation hard drives, memory, power conditioners, and more is included in the Workstation Acquisition Guide. The Guide is located on the World Wide Web at: <http://www-workstation.ucdavis.edu>

SGI workstation users will also benefit from a new site license agreement, which provides SGI users with access to software and documentation. The cost to renew SGI site licenses will be discounted under the new agreement.

Through the Vendor Software Library program, UNIX/VMS consulting is available to UC Davis departments at hourly rates. Departments buying bronze, silver, or gold consulting packages will get a better deal. For rates, software information, and other details on the Sun,

DEC, and SGI software site licenses contact the DEC/Sun/SGI site license administrator at 757-8624 or vsl@ucdavis.edu.

New Oracle Site License

The new universitywide Oracle site license agreement allows campus departments to acquire their own copies of Oracle CD-ROMs for a nominal fee. Basic technical support is provided at no cost through I.T.'s Information Resources group. Departments interested in having support directly from Oracle may purchase Oracle's Silver-level support package, which provides for three technical support contacts.

More extensive Oracle consulting services are offered by two I.T. consulting groups, which offer services at an hourly rate:

- The first group, led by Tim Olesen (757-8785), provides departmental and workgroup sever consulting focusing primarily on Oracle software installation, database design, and administration. Customers may purchase consulting services in bronze, silver, and gold support packages.

- The second group, led by Charles Raley (757-8790), focuses on departmental workstation needs, serving the Oracle software development environment, and client/server tools such as SQL Net and ODBC drivers.

For more information on Oracle software and support, contact the Oracle site license administrator by e-mail at oracle-sla@ucdavis.edu or by phone at 757-8624.

PROJECT UPDATE

NetWork 21

Residence Halls to Be Wired

In conjunction with Network 21, Student Housing is wiring campus residence halls for data access and direct connection to Network 21's high-speed, fiber optic network. Pat Kearney, Director of Student Housing, Roy Benson, Peter Hunter, and other Student Housing representatives are

working closely with the Network 21 team to coordinate project ResNet.

Get Net 21 News Via E-mail

While renovation of campus communication closets is, at the moment, the most visible part of the Network 21 project, lots of work is going on behind the scenes. Plans are being laid for the installation of the fiber optic backbone

and for horizontal wiring in buildings. Floorplans in "Network 21" buildings are being reviewed, and the project team is compiling a list of NAMs to be installed as part of the project. You can receive regular updates via e-mail by subscribing to net21info. To do so:

Send an e-mail message to listproc@ucdavis.edu. Leave the subject line blank. In the body of the message type `Subscribe net21info <your firstname> <your lastname>`.

Example:

`Subscribe net21info Jane Smith`

Subscribers may also post questions to the list.

I.T. CALENDAR

DECEMBER 1995

| S | M | T | W | T | F | S |
|----|----------------------|-----------------|-------------------------|---------------------------|------------------------|----|
| | | | | | 1 | 2 |
| 3 | 4 Windows 3.11 | 5 Netiquette | 6 Voice Mail | 7 Library Resources | 8 Eudora | 9 |
| 10 | 11 | 12 Excel | 13 Microsoft Word | 14 | 15 CAIT Workshop | 16 |
| 17 | 18 Photoshop | 19 Netscape | 20 | 21 Adobe Acrobat | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | Happy Holidays! | | | | | |

Editor's Note: If you wish to enroll in a class offered by Staff Development & Professional Services, you must complete an Application for Enrollment. Applications appear on Page 95 of the Staff Development Catalog. To request an application, call 752-1766.

December

- 4** Library Resources on the Internet: Lists, Newsgroups, Electronic Journals: Library Services, 3 - 4 p.m., Shields Library Microcomputer Room; registration by e-mail required: klfirestein@ucdavis.edu.

Introduction to Windows 3.11 (two-part class offered Dec. 4 & 6): Staff Development, 8:30 - 11:30 a.m., 40 Mrak; 752-1766.

- 5** Understanding Netiquette: Information Technology and Staff Development, Noon - 1 p.m., MU II.

Introduction to Excel (two-part class offered Dec. 5 & 7): Staff Development, 8:30 - 11:30 a.m., 40 Mrak; 752-1766.

Introduction to Microsoft Word (two-part class offered Dec. 5 & 7): Staff Development, 1:30 - 4:30 p.m., 40 Mrak; 752-1766.

- 6** Resources on the Internet: The World Wide Web: Library Services, 2 - 3 p.m., Shields Library Microcomputer Room; registration by e-mail required: klfirestein@ucdavis.edu.

Voice Mail System Training: Communications Resources, 1:30 - 3 p.m., Communications Building, Tercero Hall Circle, 752-6888.

- 7** Library Resources on the Internet: Lists, Newsgroups, Electronic Journals: Library Services, 11 a.m. - noon, Carlson Health Sciences Library; registration by e-mail required: klfirestein@ucdavis.edu.

- 8** Electronic Mail Using Eudora: Staff Development, 8 a.m. - noon, 40 Mrak; 752-1766.

- 12** Transitioning to Eudora: Information Technology and Staff Development, Noon - 1 p.m., MU II.

Introduction to Mac OS (two-part class offered Dec. 12 & 14): Staff Development, 8:30 - 11:30 a.m., 40 Mrak; 752-1766.

Intermediate Excel (two-part class offered Dec. 12 & 14): Staff Development, 1:30 - 4:30 p.m., 40 Mrak; 752-1766.

Voice Training at Research Park: Communications Resources, 10:30 -

Faculty at the CAIT

On two consecutive Fridays, Dec. 8 and 15, campus faculty and staff are invited to participate in informal workshops at the Center for Advanced Information Technology (CAIT) from 3-5 p.m. Led by Faust Gorham of I.T., the workshops focus on the use of technology in instruction. Netscape, the Web, and a variety of other Internet resources and multimedia applications are discussed. The workshops are a joint project of the Forum on Instructional Applications of Technology (FIAT) and the CAIT, which is located on the first floor of Shields. Call 752-5711 for more information.

noon or 1:30 - 3 p.m., 104 University Extension Building, 752-6888.

- 13** Intermediate Microsoft Word (two-part class offered Dec. 13 & 15): Staff Development, 1:30 - 4:30 p.m., 40 Mrak; 752-1766.

Managing Your Telephone (Multi-line training): Communications Resources, 1:30 - 3 p.m., Communications Building, Tercero Hall Circle, 752-6888.

Managing Your Telephone (Single line training): Communications Resources, 10:30 a.m. - noon, Communications Building, Tercero Hall Circle, 752-6888.

- 18** Introduction to Photoshop Image Manipulation (two-part class offered Dec. 18 & 20): Staff Development, 1:30 - 4:30 p.m., 40 Mrak; 752-1766.

- 19** Introduction to the Internet Using Netscape (two-part class offered Dec. 19 & 21): Staff Development, 8:30 - 11:30 a.m., 40 Mrak; 752-1766.

- 21** Introduction to Adobe Acrobat: Staff Development, 1:30 - 4:30 p.m., 40 Mrak; 752-1766.

January

- 8** Introduction to Windows 95 (two-part class offered Jan. 8 & 10): Staff Development 8:30 - 11:30 a.m., 40 Mrak; 752-1766.

- 9** Introduction to Internet Using Netscape (two-part class offered Jan. 9 & 11): Staff Development, 1:30 - 4:30 p.m., 40 Mrak; 752-1766.

Prolinea personal computers (DOS/Windows platform). I.T. now is accepting orders for a January bulk purchase. For complete details, please contact Charles Raley (cmrale@ucdavis.edu or 757-8790) or Martha Castro (mecastro@ucdavis.edu or 757-8793).

Save on Your Next PC Purchase

In the market for a multimedia personal computer? Looking for a departmental discount? If you answered "yes" to these two questions, this announcement is for you.

Through its bulk purchasing program, Information Technology is offering campus departments substantial discounts on COMPAQ

Network to Deliver Literacy Services to 15 Counties

From Page 1

tion Infrastructure Assistance Program (TIAP) to this project. The award provides 33% of total project funding, with partners contributing 67% or \$1,521,177.

The Net at Two Rivers Project will provide online training for literacy service providers and give remote communities access to national and state databases, coursework, and other end-user activities. Services will be delivered

through community centers, schools, libraries, workplaces, government facilities, and homes.

The project will also provide opportunities for distance learning with online interaction between students and instructors, using the Internet as a communication medium.

If you have questions about the Net at Two Rivers Project, send an e-mail message to Vicki Suter at vnsuter@ucdavis.edu.

Predicting the Car's Future

From Page 1

proach to try to mimic what the future vehicle market will do by simulating vehicle purchase behavior at the individual household level," says Bunch.

"What distinguishes the project," he says, "is that it is a state-of-the-art model based on sequences of vehicle transactions, whereas most existing models provide a snapshot of a cross-section of households and deal with what a consumer will grab from what is on the shelf." Bunch's model divides time into 6-month increments to simulate events occurring at 6-month slices in time.

The model is built on a sequence of surveys beginning in 1990, which gathered detailed demographic information from 4,747 selected individual households. The survey examined past vehicle purchases and took subjects through a series of preference tasks, asking them, for instance, which of several hypothetical vehicles they might purchase. That initial survey was updated a year later with responses from 2,900 households and will be refined further in 1996.

The group used a Matlab-based microsimulation system to construct the model. The portability of the Matlab system appealed to the researchers because it makes it possible to develop the model on one platform and move it to another.

"We have these models running on workstations," says Bunch. "Now the challenge is to analyze the data after we produce it. The data can be aggregated up to any level of geographic detail."

Discounts Available on Workstations

From now through Dec. 31, 1995, Digital Equipment Corporation is offering educational institutions a 3-for-1 discount on selected DEC Alpha workstations. The discount applies to the 700, 800, and 900 models of the DEC Alpha 3000 workstation. The offer states that you may purchase one workstation at the regular educational discount and receive two identical systems free of charge.

Further information appears in the Workstation Acquisition Guide on the World Wide Web at <http://www-workstation.ucdavis.edu>.

If you have questions, contact Earl Bertram at 757-8863 or ebertram@ucdavis.edu.

Travel the Web for More Information

Further information on transportation studies may be found on the World Wide Web. Here are a few locations that may be of interest to you.

Bureau of Transportation Statistics:

The Smart Library

<http://www.bts.gov/smart/smartlinks.html>

Integrated Transportation

Management Center

<http://herman.tamu.edu/itmc-mission.html>

Transportation: Engineering and Technology

<http://www.einet.net/galaxy/Engineering-and-Technology/Transportation.html>

California Smart Traveler

<http://www.smart-traveler.com/>

"At this point," says Bunch, "we have a sample of households and we're applying weights and measures to get a picture that can be summarized up to the level of the entire state of California."

The project's public utilities clients can run the Matlab forecasting model, take the output database from the model, and use it to output to a Geographic Information System (GIS), where they can display it on a map for planning at the level of a utility planning district.

Now Bunch and his colleagues are at work producing similar models for planners who report energy forecasts to the state legislature for different regions of California.

I.T. TIMES

The I.T. Times is published by the Division of Information Technology, University of California, Davis, to inform the campus community and others of information technology services, facilities, and activities at UC Davis. It is distributed free of charge to members of the user community and to other universities. Use of trade or corporation names in this publication does not constitute endorsement by the University of California, Davis. I.T. Times articles may be reprinted as long as the source is accurately quoted and credited.

Editor: Catherine Fehr Curran 752-5965
Writer: Anne Jackson 754-8302
Assistant: Bonnie Johnston 752-1009
Designer: Marianne Post
Masthead: Doug Gentry
Send e-mail to itpubs@ucdavis.edu

Contributors to this issue:

Tim Loamy
Ken Firestein
Gabriel Unda
Russ Hobby
Grazia Jaroff
Ted Rallis
Sandy Duncan
Debbie Lauriano
Doug Hartline
Joyce Johnstone
Earl Bertram
Kent Kuo
Joan Gorgona

Rodger Hess
David Bunch
Paul Grant
Dick Kaye
Vicki Suter
James Lee
Ray Reveles
Carole Barone
Marsha Roodick
Jeff Barrett
Diana Foster
Laura Townsley
Paula King