Melvyl® Provides New Access to IEEE Journals
by Karen L. Andrews, Head Physical Sciences Librarian

In a collaborative effort, the University of California and the Institute of Electrical and Electronics Engineers have made full text articles from IEEE journals and conference proceedings available on the Melvyl database. While in the Melvyl system, just type "IEEE" into the search window for immediate access to 90 journals, 200 conference proceedings, and 75 books annually. Topics covered include information technology, communications, medicine, and management in addition to topics of interest to electrical engineers and computer scientists—such as graphics, networks, micro-waves, semiconductors, optics, and acoustics.

Articles and conference papers from 1989 to the present have been scanned and loaded onto the Melvyl database. Photos, charts, diagrams, and even Dilbert cartoons appear online just as they do in the printed page. Later, the IEEE hopes to make their technical standards available through the project.

Continued on Page 3

Keeping Up With Change
I.T. Modifies Services to Meet Campus Needs

Visit a campus computing lab during midterm week, and you'll begin to understand why campus computing systems are working overtime. Class notes, papers, journal articles, and even discussions with professors are traveling through central computing systems and across the campus network. The volume of traffic and resources used to process information becomes even greater when you add all the business applications that utilize campus computers.

To keep pace with ever-growing (and changing) needs of the campus, Information Technology is constantly working to enhance services and strengthen communication infrastructure. Today’s I.T. Times looks at ten improvements in the works:

I.T. Express Service
Hutchison Lab Relocation
Class Scheduling List Automation
New E-mail Servers
Who’s In? Link
Phone Switch Upgrade
Modern Service Options
Secure Transactions
Network 21

Articles by Virgil Palmer and Aviva Luria

The Future Begins Here

Mark your calendar for May 20-24, and plan to participate in Odyssey ‘96. The week-long exploration of information technologies begins with a practical presentation on how to finance technology purchases and concludes with a look at the role technology will play in the University’s future.

(See Odyssey ‘96 Schedule of Events on Page 4.)

John L. Quirk, a noted speaker on technology financing, comes from the University of North Carolina, Chapel Hill to deliver the keynote address, “The Financial Mythology of Information Technology.”

Wtih pilots underway on the new Financial Information System and Payroll Personnel system, Gerry Berbom’s noon-hour talk on Tuesday will be timely for many. Berbom comes to us from Indiana University to discuss “Data as an Institutional Resource.”

Those demonstrating creative uses of technology at Freeborn Hall on Thursday will be among the select group of campus individuals invited to a presentation by Richard West on the “Changing Costs of Information in the Networked World.” West is Vice Chancellor Business and Finance for California State University.

Interested in how technology plays into the University of California’s future? Insight in this area comes from Stuart Lynn, who will discuss “Using Technology to Build an Interactive University.” Lynn is Associate Vice President, Information Resources and Communications for the UC Office of the President.

Creative Uses of Technology: See how Internet-based publishing works in an online medical journal; search for paintings in the art library by color, shape, and texture; and watch what would happen if the dam holding back the waters of Lake Berryessa broke. These are just a few of the experiences awaiting those who attend the Odyssey ‘96 technology showcase in Freeborn Hall on May 23. Everything from the new Financial Information System to new technologies used by the Geology Library will be showcased. Look for complete details in other pre-event publicity. Questions? Send e-mail to odyssey@ucdavis.edu.

Daughters (and Sons) Go to Work on the Web

Mothers, daughters, fathers, and sons squeezed into the Center for Advanced Information Technology (CAIT) last month, and went right to work on the World Wide Web. It was “Take Our Daughters to Work Day,” and assistant professor of Design, Kathi Sylva, turned the April 25 event into a class project.

Asstisted by 17 students in her Visual Metaphor (Design 133B) course, Sylva introduced the young participants to what she and her students call the interactive Internet. “The design students showed the group how to use html code to create a site on the World Wide Web. Sylva, whose class has been working on computers the entire term, said the event gave her students an opportunity to teach what they have learned.”

The Women’s Resources and Research Center organized the “Take Our Daughters to Work” day on campus.

CAIT staff members Erica Lundmark, Jessica Mignone, and Faust Gorham assisted with the exercise.


Continued on Page 2

Odyssy 96

Keep your calendar for May 20-24, and plan to participate in Odyssey ‘96. The week-long exploration of information technologies begins with a practical presentation on how to finance technology purchases and concludes with a look at the role technology will play in the University’s future. (See Odyssey ‘96 Schedule of Events on Page 4.)

John L. Quirk, a noted speaker on technology financing, comes from the University of North Carolina, Chapel Hill to deliver the keynote address, “The Financial Mythology of Information Technology.”

With pilots underway on the new Financial Information System and Payroll Personnel system, Gerry Berbom’s noon-hour talk on Tuesday will be timely for many. Berbom comes to us from Indiana University to discuss “Data as an Institutional Resource.”

Those demonstrating creative uses of technology at Freeborn Hall on Thursday will be among the select group of campus individuals invited to a presentation by Richard West on the “Changing Costs of Information in the Networked World.” West is Vice Chancellor Business and Finance for California State University.

Interested in how technology plays into the University of California’s future? Insight in this area comes from Stuart Lynn, who will discuss “Using Technology to Build an Interactive University.” Lynn is Associate Vice President, Information Resources and Communications for the UC Office of the President.

Creative Uses of Technology: See how Internet-based publishing works in an online medical journal; search for paintings in the art library by color, shape, and texture; and watch what would happen if the dam holding back the waters of Lake Berryessa broke. These are just a few of the experiences awaiting those who attend the Odyssey ‘96 technology showcase in Freeborn Hall on May 23. Everything from the new Financial Information System to new technologies used by the Geology Library will be showcased. Look for complete details in other pre-event publicity. Questions? Send e-mail to odyssey@ucdavis.edu.

Continued on Page 2

Odyssy 96
Hutchison Labs Relocating to Olson

Looking for a way out of the basement of Hutchison? If computer labs are drawing you down there, things are looking up — or, let’s say, across campus. On Friday, June 14, the computer labs in rooms 8, 14, and 86 Hutchison Hall will close, and new computer classrooms will open in Olson Hall in rooms 21 and 27. The new labs in Olson Hall are scheduled to open June 17, the Monday after the Hutchison labs close.

“The rooms in Olson are specifically designed to be used as teaching labs,” says Tim Leamy, a Programmer/Admin for Information Technology, who is responsible for the computer labs.

The new computer lab in room 233 of the Social Sciences building will also be replaced by a new teaching and research lab that will be managed by Letters and Science.

“We’re not losing anything. Well have roughly the same number of computers,” says Leamy. “And we’re hoping to open more rooms in the basement of Olson in the near future,” he says.

Remember to begin using the computer labs in Olson Hall starting the first day of summer session.

Client Notification Moves to the Web

Information Technology now has a more reliable way of conveying news involving use of central campus computing systems. The messages, which appear on the screen when you login to one of the campus servers, also are posted on the World Wide Web.

Consequently, you don’t have to login to read the message of the day. Better yet, if you are unable to login, you can go to the Web to find out why.

Campus computer policies, projects, and other information involving central campus systems also will be posted on the Web site.

Although the client notification site is still under construction, you can go there to review the messages of the day and other information. Go to http://sysweb.ucdavis.edu/announcements/

Automating Class Mailing List Administration

With distance learning on the horizon, many UC Davis faculty members are taking advantage of the electronic age by plugging their students into class mailing lists.

These electronic lists soon will become easier to administer, thanks to a new program that will make it possible to update class lists automatically.

Class mailing lists facilitate course-related communication, allowing faculty and students to interact outside the classroom quickly and easily.

Currently, class lists are created as is any electronic mailing list. After the instructor establishes the list, students are directed to subscribe by sending a standard message to the listprocessor.

While straightforward, this system is not without its problems. Students unfamiliar with e-mail may find it difficult to subscribe, or errors may occur in the subscription requests that prevent them from being processed.

All this will change with the automated class mailing list. Once the professor requests a class list, the program will extract e-mail addresses from the Student Information System (SIS) database, using the CN (Course Reference Number) to determine which students to subscribe. This will eliminate the possibility of subscriber error, and it will ensure that students are added at registration.

When students add or drop the course, the mailing list will be updated automatically to reflect the change. Students who are officially wait-listed via the BANNER system will also be included in the automated program.

New E-Mail Servers to Distribute Load and Reliability

E-mail reigns supreme as a campus communication tool when information must be exchanged quickly. To ensure smooth delivery the campus e-mail system will be expanded over the summer.

All campus e-mail systems now travels through a central server that handles 38,000 e-mail accounts. Additional e-mail servers will be installed to work in conjunction with the current system.

“The goal of this project,” says David Zavatson, I.T. Distributed Systems Administrator, “is to move people, who for the most part use the Eudora e-mail program, to other servers. This will allow us to dedicate the central campus e-mail server (Pascal) to people who use Pine for e-mail.

“Improving reliability is our main goal,” says Zavatson. “The current system allows e-mail delivery to be managed centrally; however, the problem is that when the central system goes down, nobody gets any mail.”

With several separate machines working independently to serve a limited number of users, the flow of e-mail from the other servers will be unaffected if one server goes down.

“I don’t want to convey the idea that these servers will only be for a limited segment of the campus community. We will provide enough servers to accommodate all users, but each server will have only a limited number of users on it. We will simply add more servers if needed.”

At Home on the Web

UC Fruit and Nut Research and Information Center

http://pm44.ucdavis.edu

Despite its obvious benefit for commercial producers, this site has information that can even help someone with only a couple of fruit trees in the backyard. Begun in January, the objective of the site is to increase the multidisciplinary cooperation, coordination, efficiency, and effectiveness of fruit and nut crop activities in California. University personnel from several departments who conduct research related to the environmental and economic sustainability of California fruit and nut crops are listed. A calendar of events, links to related sites, and information on an automated fruit and nut crop information system is available as well as a “Fruit and Nut Crop Information.” You can check “Pomology Facts” or get the name and phone number of your county extension agent.

A Teletology Study

http://www-informatics.ucmc.ucdavis.edu/breadststudy/study.htm

Here is an example of a Web site as a splendid interactive tool for training and professional development. Of course, you would need to be a teletologist to fully benefit from this site, but it may be interesting just to look in on it. The purpose of this study is to evaluate how much the diagnosis from a Teletology concurs with the diagnosis derived from conventional interpretations of breast Fine Needle Aspirates. Twenty-two consecutive breast images are presented that have been evaluated independently by several pathologists and a diagnosis is made for each case. The participant fills out a worksheet below each case that is scored for clarity of cytological features and number of images necessary to make a diagnosis. The responses for each case will be tabulated and analyzed.

Geology

http://www-geology.ucdavis.edu

Impressive is an apt description for this Web site. The opening homepage menu is voluminous with selections. “If one of the first entries you choose is “Where is Davis,” which opens with a description and a world map showing the city’s location. At the bottom of that page is a linking question that says, “Nice! But where is Davis really?” Find out for yourself where Davis really is. In addition to departmental and course info, there are pages and links to such things as Earthquake Information and California Rivers and Streams, to name just two.

Compiled by Virgil Palmer

Do you have a home page you would like published? Send your submissions to us at itpubs@ucdavis.edu
From Page 1

Based on trends of the past two years, Information Technology expects most students to be using Eudora by Fall 1997.

"Pretty cool" is how Ken Weiss describes the experimental online directory project he is testing. Whosis+ Directory Services is being developed to provide an efficient way of accessing white page directory information online. The goal of the project is to link all nine University of California campuses and the UC Office of the President. UC Davis is the lead campus for the project.

The UC Davis database is now linked with the UC Santa Barbara online directory, notes Weiss, of I.T.'s Distributed Computing Analysis and Support (DCAS).

"The campus community has scheduled a major upgrade to the campus telephone switch. The upgrades will take place in several phases over the next few months. Two software enhancements— one at the end of June and the other in December— will require brief service interruptions. The campus community will be notified ahead of time of these planned outages."

"These improvements will align the campus telephone switch with future ATM technologies, which will enable the delivery of specialized features, such as Automatic Call Distribution (ACD) and Computer Telephony Integration (CTI), to departments with large call centers or advanced communication needs.

From Page 2

Switch Upgrade Opens Door to Enhanced Communication

Communications Resources has scheduled a major upgrade to the campus telephone switch. The upgrades will take place in several phases over the next few months. Two software enhancements— one at the end of June and the other in December— will require brief service interruptions. The campus community will be notified ahead of time of these planned outages.

"These improvements will align the campus telephone switch with future ATM technologies, which will enable the delivery of specialized features, such as Automatic Call Distribution (ACD) and Computer Telephony Integration (CTI), to departments with large call centers or advanced communication needs.

Modem Users Will Have New Options

Skyrocketing calls to the modem pool have been greeted by busy signals, but alternative service is at hand. Campus leaders asked Information Technology to "freeze" the modem pool at 500 modems and solicit bids from private vendors to provide campus users with other options.

Information Technology will continue to provide baseline service to the existing modem pool, and those seeking a guaranteed access to the network will have an opportunity to benefit from a vendor contract. The recommendation to provide additional modem service options was made by the Joint Campus Committee on Information Technology (JCCIT) and the Committee on Academic Planning and Budget Review (CAPBR).

Over the past four years, calls to the modem pool have virtually doubled on an annual basis. Even though the campus modem pool has more than quadrupled in size, callers still complain of busy signals.

Planning for Secure Transactions

How to maintain the confidentiality of information as it travels across the Internet is that the question being asked by many who see how networking technology is making confidential data stored in institutional databases more accessible.

Equally important is how to verify that the individual receiving the information is really who they claim to be.

To ensure secure network transactions, many networking technologies (e.g., Kerberos, Single-Sign-On, and One Time Passwords) are being integrated into campus systems. I.T.'s Distributed Computing Analysis and Support group is developing security programs for Banner, DaFIS, the Web and other campus projects.

Moving Forward with Net 21

A tremendous enhancement to campus infrastructure, Network 21 will link over 200 buildings on campus with high-speed fiber optic cable. The new campus network is scheduled for completion in July 1997. Network 21 project coordinators are working closely with the campus to ensure that the transition to Network 21 is a smooth one.

The campus community has been invited to participate in many discussions regarding the transition to the new campus network. On three occasions last month, network administrators and technical staff had the opportunity to discuss the technical policies and implementation details of Network 21. The rough draft of a technical policy document was discussed at a series of meetings sponsored by the Network 21 Cutover Committee, which is responsible for developing a Network 21 cutover plan.

More recently faculty and staff were invited to meetings to discuss client hardware issues and participate in a step-by-step review of the cutover process.

These meetings provide an opportunity for network administrators and technical staff to voice their concerns and provide feedback. Detailed orientations will be held for each network administrator as part of the Network 21 cutover process.

Network 21 information is available on the World Wide Web at http://letterman.ucdavis.edu/net21/
**Update at Noon**

Brown Bag presentations on technology topics are sponsored by Information Technology and Staff Development & Professional Services. All presentations begin at noon.

**Tuesday, June 11 • WU 46**

**The World of Electronic Mailing Lists**

You, too, can join the online discussion. However, you will have to subscribe to electronic mailing lists and find out where the lists can be found. The different kinds of listserver will also be discussed.

---

**Schedule of Events**

Creative uses of information technology will be the topic of discussion on campus May 22-24 as Odyssey ’96 unfolds. Mark your calendar and join the exploration of technology in teaching, research, and public service.

**Monday, May 20**

The Financial Mythology of Information Technology

Presentation by John L. Obebein, Director of Finance & Planning for the Office of Information Technology at the University of North Carolina at Chapel Hill.

**Tuesday, May 21**

Data as an Institutional Resource

Presentation by Gerry Bembo, Assistant Director and Senior I.T. Architect for the Office of Information Technologies at Indiana University.

**Wednesday, May 22**

Office of the Future

Members of the campus community will demonstrate innovative, instructive, and interactive uses of information technologies. Participants will enter the exhibit area through a Technology Timeline. “Birds of a Feather” discussions will be scheduled throughout the day.

**Friday, May 24**

Using Technology to Build an Interactive University

Shant Lynn, Associate Vice President, Information Resources and Communications for the Office of the President, will conclude the Odyssey with a talk on the opportunities information technologies are creating for the University of California.

For more information e-mail odyssey@ucdavis.edu or go to http://www.ucdavis.edu/IT/ Odyssey ’96 is sponsored by the Network 21 Budget and Policy Oversight Committee, the General Library, and Information Technology.

**May**

13 Intermediate Mac OS (two-part class offered May 12 & 13): Staff Development and Professional Services, 8:30 to 11:30, 40 Mrak Hall; 752-1766.

14 Introduction to Microsoft Word (two-part course offered May 14 & 15): Staff Development and Professional Services, 1:30-4:30 p.m., 40 Mrak Hall; 752-1766.

15 Medical Resources on the Internet: Health Sciences Library Programs, 9:00-11:00 a.m., Health Sciences Library Reference Office call 752-6204 or e-mail jawelsch@ucdavis.edu to enroll.

16 Brown Bag Presentation: Electronic Mail Management in Eudora

Information Technology, noon, Cabernet Room, Silo.

17 Telephone System Training: Managing Your Voice Telephone

Staff Development and Professional Services, 1:30-5:00 p.m., 40 Mrak Hall; 752-1766.

18 Journal Article Databases on the Melvyl Library System: Library Instruction Programs, 4:10-5:00 p.m., Shields Library, Microcomputer Room. To enroll e-mail vgbal@ucdavis.edu or call 752-6439.

19 Voice Mail Training at Research Park

Staff Development and Professional Services, 10:30 a.m.- Noon (Single-Line course or 1:30-3:00 p.m. Multi-Line course), Communications Bldg., Tercero Hall Circle.

20 Melvyl/Medline: Health Sciences Library Programs, 1:00-5:00 p.m., 40 Mrak Hall; 752-1766.

21 Introduction to Internet Using Netscape

Two-part course offered May 21 & 22: Staff Development and Professional Services, 8:30-11:30 a.m., 40 Mrak Hall; 752-1766.

22 Voice Mail System Training: Staff Development and Professional Services, 10:00-11:00 a.m., 40 Mrak Hall; 752-1766.

23 Windows for Windows: An Introduction to Windows and Newsgroups, Electronic Journals Resources on the Internet-Lists, Electronic Journal Databases on the Internet-Lists, 200-400 p.m., Health Sciences Library Reference Office call 752-6204 or e-mail jawelsch@ucdavis.edu to enroll.

**June**

24 Electronic Mail Using Eudora: Staff Development and Professional Services, 10:00-11:00 a.m., 40 Mrak Hall; 752-1766.

25 Information Provider Series-Mailing Lists Administration

Information Technology, 1:30-4:30, 14 Tercero Hall Circle. To enroll e-mail learnit@ucdavis.edu or call 754-8091 to register.

**July**

26 Intermediate PowerPoint Working Session-Bring Your Own Project

Staff Development and Professional Services, 1:00-3:00 p.m., 40 Mrak Hall; 752-1766.

27 Melvyl/Medline: Health Sciences Library Programs, 1:00-3:00 p.m., Health Sciences Library Reference Office call 752-6204 or e-mail jawelsch@ucdavis.edu to enroll.

28 Medline/Journal Article Databases on the Melvyl Library System: Library Instruction Programs, 4:10-5:00 p.m., Shields Library, Microcomputer Room. Registration by e-mail required: vgbal@ucdavis.edu.

29 Electronic Mail Using Microsoft Word: Staff Development and Professional Services, 10:00 a.m.-12:30, 40 Mrak Hall; 752-1766.

30 Voice Mail System Training: Staff Development and Professional Services, 10:00-12:30, 40 Mrak Hall; 752-1766.

---

**Editors’ 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.**

---

**Volume 4, No. 8 • May 1996 Information Technology Times**