

# Computing & Network News

Kansas State University

23:1

Fall 1994

## CNS consulting, lab moved to Nichols

In August, the Fairchild 9 public lab was closed and the equipment was moved to CNS's new public lab in 126 Nichols Hall. At that time, significant upgrades were begun on the lab equipment.

Ten new 486-based MS-DOS computers (one with restricted use) were installed, and the old IBM green-screen dumb terminals previously in Fairchild 9 were removed from use. Nine of the 10 IPX Unix workstations in Fairchild were relocated to Nichols. In addition, six Power Macintosh computers are scheduled to be put in the lab this fall.

The print facilities in the lab include a dot-matrix printer for the PCs and Macintoshes, and a high-speed B-600 line printer for Unix printing and mainframe printing.

This move to Nichols is the result of an arrangement with the Computing and Information Sciences department, which is providing the Nichols 126 room on a temporary basis to be reviewed annually. As part of the agreement, CIS is using a portion of

the room for consulting with CIS students.

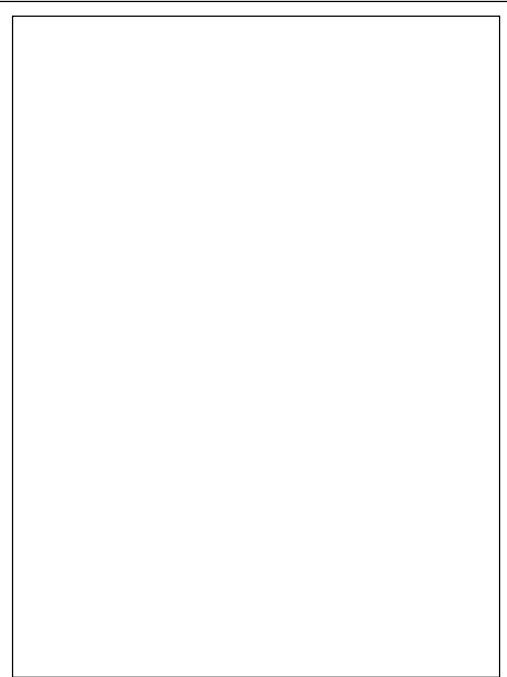
The Nichols lab is located at the northwest corner of the building and has an exterior door on the north side. This location has several advantages over the former Fairchild location — including better physical space, adjacent restrooms, and a ground-level location that's easily recognizable and accessible by the campus community.

### CNS consulting office also moves to Nichols

In conjunction with the Fairchild-Nichols move, the CNS Consulting Office (previously in Fairchild 9) was moved to new quarters in 126D Nichols Hall, a room within the Nichols lab space. The phone number for the office remains the same: 532-7722.

### Additional consulting hours

The consulting office began providing consulting services several evenings a week starting Sept. 6.



The outside entrance to the new public computing lab is next to the Nichols Hall sign.

Evening hours of consulting are 6-9 p.m. Sunday through Thursday. Daytime consulting is 8:30 a.m.-5 p.m. Monday through Friday, as usual.

Feedback concerning evening-hour consulting is welcome; please forward comments and questions to [wazzzer@ksuvm.ksu.edu](mailto:wazzzer@ksuvm.ksu.edu).

*(The CNS information center will be moving to Nichols 126. See page 10.)*

**Inside**

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- Mainframe upgraded
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- What's new in Unicorn

# Itty bitty bytes

● **Mosaic, Pine, and Windows** are some of the new computing topics covered in the free training sessions provided by Computing and Network Services. For the schedule of training sessions, see page 8.

- general overview of CNS facilities and resources
- Pine e-mail program on the Unix system
- nn news reader on the Unix system
- Mosaic software on the Unix system (for accessing the World Wide Web)
- suite of Winsock tools for retrieving information from the Internet
- Lview and MPEG software for multimedia

● **CNS training sessions are held in 202 Fairchild Hall.** A pink flier containing the whole semester's schedule is available adjacent to the K-State Union Information Desk, and at the CNS Consulting Office in 126 Nichols Hall.

● **Reminder: MacTech** is a free monthly meeting series being presented by Apple Computer Co. in

Overland Park, and CNS is taking a 15-passenger van to the meetings. For more information or to register to attend, send e-mail to Ralph Wasmer, [wazzer@ksuvm.ksu.edu](mailto:wazzer@ksuvm.ksu.edu).

● **Cyber Cat** debuted Sept. 1 as an insert in the *Kansas State*

*Collegian*. This new CNS publication looks at KSU's computing and information technology in a friendly, non-technical fashion. It was created by CNS to let students know about the many public-computing resources available at K-State. Additional copies of *Cyber Cat* are

available to departments for recruiting and educational purposes. For more information, contact Betsy Edwards at 532-4932 or send e-mail to [betsy@ksu.edu](mailto:betsy@ksu.edu).

● **The Telecommunications Office** has announced that, starting Nov. 1, a nationwide change in the U.S. telecommunications system will require the area code to be used before each and every long-distance number dialed, including those numbers in the same area code as the caller's.

● **The KSU Computing Survival Kit** was updated this summer as usual. The new version is available at the K-State Union Bookstore (approximately \$4) and at Varney's Book Store in Aggieville. More graphics were added to the booklet, and new information includes:

- the X Window System for Unix
- Pine, a beginner's e-mail system in Unix
- topics in CNS's free training sessions
- lists of popular software available in the public computing labs

● **WordPerfect toll-free telephone support numbers** are gems that bear repeating from the WordPerfect article in the last issue. These numbers can be used by any faculty or staff at K-State to get answers to WP computing questions, due to the CAP Program agreement between the State of Kansas and WP Corp. EggHead is the program vendor.

WordPerfect's toll-free support number is 1-800-979-2800. The educational PIN number is 8595683. (Be prepared to be put on hold for a while.) The serial number for the enterprise CAP license is WPCAP USE 000937.

EggHead's technical support toll-free number is 1-800-688-3447.

## Computing and Network Services

Administrative Offices  
(913) 532-6311

CNS director: John Bucher  
532-4900, [jbucher@ksu.edu](mailto:jbucher@ksu.edu)

CNS Consulting Office  
532-7722, [consult@ksu.edu](mailto:consult@ksu.edu)

CNS Information Center  
532-4922, [infoctr@ksu.edu](mailto:infoctr@ksu.edu)

Data-switch installation, repair  
532-6313

Dial-ups for the data switch  
2400 bps: 532-7780  
14.4 kbps: 532-7770, 5370, 5390

Dispatch window  
532-6365

Fax machine for CNS  
532-5914

Labs, public  
532-4924

Maintenance and repair  
532-6314

Networking services  
532-4907, [rrsum@ksu.edu](mailto:rrsum@ksu.edu)

Novell network support  
532-4923, [chuck@ksuvm](mailto:chuck@ksuvm)

Operations  
532-6365

Test scoring  
532-4920, [jkolson@ksuvm](mailto:jkolson@ksuvm)

Training/seminars  
532-4920, [ncalhoun@ksu.edu](mailto:ncalhoun@ksu.edu)

Unicorn campus info system  
532-4905, [neil@ksu.edu](mailto:neil@ksu.edu)  
532-4932, [betsy@ksu.edu](mailto:betsy@ksu.edu)

Unix systems  
532-4907, [rrsum@ksu.edu](mailto:rrsum@ksu.edu)

User IDs  
532-7722, [consult@ksu.edu](mailto:consult@ksu.edu)

"One of the most feared expressions in modern times is 'The computer is down.'"

— Norman Augustine

## Computing innovations at K-State

by John Bucher  
CNS director

On behalf of all the permanent and student employees of Computing and Network Services, I want to welcome back all former and new K-State employees and students. The start of a new academic year always brings a renewed sense of viability and enthusiasm. We in CNS hope that our facilities and services can contribute to your successes in the 1994-95 academic year and beyond.

Last March, I reported in this newsletter some pending changes in our K-State computing environment. I'd like to give you an update on those changes and mention a couple of recent developments.

### Our mainframe environment

We are pleased to formally announce that the University has successfully acquired and installed an IBM model 3090 200E. We took delivery of the computer in June and moved all operations from the IBM 3084 to the 3090 on Aug. 9. With everything running smoothly, the 3084 was removed from stand-by mode and fully disconnected on Aug. 22.

Our systems staff is working on the conversion of our operating systems from VM/XA and MVS/XA to VM ESA and MVS/ESA. Although this is a very important and necessary migration, we don't consider this a "rush job" and will be quite deliberate in our conversion. We will keep you informed of our progress.

As I indicated last spring, I consider this recent conversion as a start on our very slow and deliberate multi-year migration away from a traditional mainframe environment. Although some could criticize the purchase of a used IBM 3090, I believe that our current resources and information-technology plans make this the absolutely right

decision for K-State at this time. It positions us in an environment in which we can run current operating systems. It provides extra processing power while using less energy, and it saves us approximately \$30,000 per year on maintenance costs. When compared to the \$1 million (or more) cost of a new, comparably sized IBM mainframe, the \$75,000 price tag looks quite good.

I believe that the 3090 will serve us well for at least the next few years as we see the migration of some mainframe systems to other hardware and software platforms. One very visible example will be the human resource system.

I again want to take this opportunity to encourage academic users and electronic-mail users (Bitmail) of our mainframe systems to continue planning for their migration to other platforms, such as our Unix systems and/or other desktop solutions. If you have concerns or questions about this, please give me a call.

### New home for CNS consulting

I am very pleased to announce that CNS has entered into a partnership with the Department of Computing and Information Sciences. For a trial period of the 1994-95 academic year, we have moved our consulting and lab services from Fairchild 9 to room 126 of Nichols Hall.

The room in Nichols is part of CIS's departmental space, and we are very pleased that they are willing to offer this facility to CNS and the campus community. It's a pleasant change from the basement of Fairchild.

### Our public computing facilities

Thanks to a significant amount of funding from fiscal year 1994 CITAC funds, we have purchased and installed 46 new 80486 micro-computer systems in various public

labs around campus. Furthermore, we are in the process of putting Microsoft's Windows and Windows software in all of the labs, along with new printing facilities.

Very soon, we will have new interfaces to the Internet on all of these systems, including HGopher and Mosaic. We were also able to make some modest, but very nice, facilities improvements due in part to financial assistance from the College of Human Ecology.

### Additional hardware/software changes in the coming year

We have budgeted for a replacement of the Matt hardware on the central Unix systems, as well as the acquisition of new UPS (uninterruptable power system), and tape and memory upgrades. We are also investigating the acquisition of a plotter for the Unix system, to replace that facility in the mainframe environment. Another important addition to our facilities is the enhancement of dial-in services, including additional SLIP servers and connections.

I encourage you to call me with your concerns, questions, or comments. Please call 913-532-4900 or send e-mail to me: [jbucher@ksu.edu](mailto:jbucher@ksu.edu).



"I believe that the 3090 will serve us well for at least the next few years as we see the migration of some mainframe systems to other hardware and software platforms."

—John Bucher

## *IBM mainframe upgraded in August*

### **Upgrade will allow move to IBM-supported ESA operating systems**

In the evening hours of Aug. 9, K-State's IBM 3084 mainframe was uncabled and the newer IBM 3090 mainframe that arrived June 23 was put online. All peripherals (disks, tapes, printers, and communications equipment) were moved to the 3090 at that time.

The operating system did not change; only the underlying processor was replaced. This change caused very few problems. From the viewpoint of most applications, the only thing that changed was the CPU serial number.

### **Reason for move to 3090**

The primary reason the 3084 was replaced is to move to a CPU that will allow us to run a supported IBM operating system. VM/XA and MVS/XA are no longer supported by IBM, so problems encountered would be increasingly difficult to fix. The 3090 supports the IBM ESA architecture, and CNS is planning to convert to the VM/ESA and MVS/ESA operating systems in the future. Announcements about these changes will be made in the coming months.

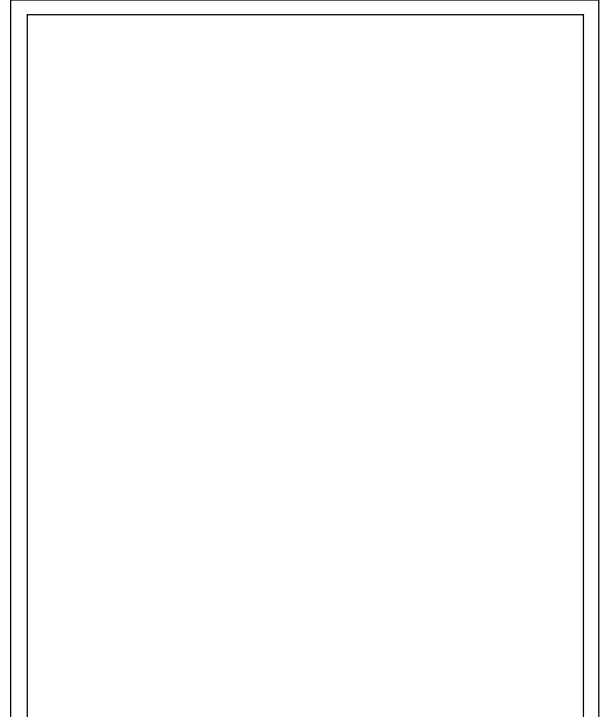
The move to the 3090 is not a significant performance upgrade. While it should improve performance, it is hoped that the continuing migration of work to other computing platforms will alleviate the need for a larger and more costly hardware upgrade.

### **Rate change due to faster CPUs**

The IBM 3090-200E has 2 CPUs, each of which is approximately 2.2 times faster than one of the four

The IBM 3090 upgrade was \$75,000. It will more than pay for itself within three years by saving about \$30,000 per year in maintenance costs. (For more details, see "From the Director" on page 3.)

CPUs in the 3084Q, and the 3090 has 128 megabytes of main memory compared to 96 megabytes on the 3084. Thus, while the new machine has half as many processors, overall system throughput is expected to be slightly better. Most CPU-intensive applications will



**K-State's new IBM 3090 mainframe arrived June 23 and was delivered to Farrell Library.**

complete considerably faster if run when KSUVM is not heavily loaded. Applications which do a great deal of I/O will generally complete only a little faster.

Because each CPU is about twice as fast, CPU use on the 3090 will initially be billed at twice the rate of the 3084. The actual bill users see should be approximately the same in most cases as was seen on the 3084. This CPU rate may be adjusted slightly at a later time if it is found to be significantly too high or too low. In benchmark tests, each CPU on the 3090 was found to be between 1.8 and 3.8 times as fast as the 3084 CPUs, with numerically intensive applications enjoying the greatest performance increase.

The 3090 is also cost-effective. CNS will save enough on hardware maintenance in the first three years to more than cover the cost of the 3090 purchase. The 3090 runs a supported operating system; is newer and should be more reliable; runs about 10 percent faster; has more main memory; is upgradable should we need to do so; and saves money in the long run.

# CNS Network Toolkit provides networking software for Windows

by Neil Erdwien  
CNS user services

Computing and Network Services has prepared a suite of software tools that will enable IBM-compatible personal computers to use TCP/IP services. Called the CNS Network Toolkit, the collection of software will provide the following services:

- Remote Log-in — With this you can log into CNS's Unix systems, the KSUVM mainframe, departmental systems, and other computers connected to the Internet.
- File Transfer — This allows files to be transferred between computers.
- Electronic Mail — This program lets you read and file mail directly on your PC. This is an alternative to using Bitmail on KSUVM, or elm or Pine on the Unix systems.
- World Wide Web — As explained in previous newsletter articles, the World Wide Web is a fast-growing information service. K-State's Unicorn is available on the World Wide Web.
- X Window Server — This lets programs that use the X Window System display to your PC, even if the program is running on the CNS Unix systems.

Since May of 1991, CNS has been distributing a related package of software: the TN3270 package

developed at the National Center for Supercomputing Applications as modified by Clarkson University.

This package, which is still available, operates only with MS-DOS (although it can be used in a DOS window under Microsoft Windows). It provides remote log-in and file-transfer capabilities.

One of the difficulties of running network programs under MS-DOS is that no standard implementation

of TCP/IP with a non-proprietary interface developed. Every network program had to implement the TCP/IP protocol itself. This is non-trivial and, as a result, relatively few network programs, especially of the extremely cheap or free type that we distribute, were ever developed.

In 1991 a group of companies started development of a standard interface to a TCP/IP implementation for Microsoft Windows. The interface was modeled after the sockets interface that Berkeley Unix uses for network programming. This gives rise to a common name for these tools: Winsock tools.

Since the specification was published in January 1993, many tools have been developed — often public domain, free, cheap, or shareware. This package is a collection of those tools that CNS believes are useful to a large portion of the KSU community and are of sufficiently high quality.

None of these tools were written at Kansas State University; all are either free software or have been site-licensed for use at K-State.

The package is available for check-out in the Computing Information Center, 203 Fairchild. To make use of the software, you must have an IBM-compatible PC with Microsoft Windows 3.1 and a minimum of 4 megabytes of memory. Some of the tools, particularly the World Wide Web client called Mosaic, will perform better with 8 megabytes of memory.

Of course, because the purpose of these tools is communication via a network, a network connection is needed. A Novell NetWare server is not required if your PC communicates directly with the servers over the network.



## Ada removed from KSUVM

IBM announced in July that they had transferred technology of the IBM Ada products to the OC Systems Inc. The announcement also withdrew the Ada product from IBM's Higher Education Software Consortium (HESC). Since K-State's Ada license is through the HESC, we removed Ada from the KSUVM mainframe in August. However, Ada is still available on a CIS Unix system at K-State.

## Dept. of Communications providing

by Janelle Esau  
CNS publications intern

In the College of Agriculture, the Department of Communications is establishing computer links with the state's extension offices and experiment stations; considering a database of 3,000+ extension documents; and planning multimedia projects for classrooms.

### Plans to connect with county extension offices

The Computer Systems Office has been working on an Information Infrastructure Project since spring 1993. The goal is to connect the state's experiment stations and extension offices to OzNet, the department's Local Area Network.

"One area of concern to us is a means of delivering information to the county extension offices on research," Roger Terry, coordinator of CSO and the Weather Data Library, said. "We see the computer as an information distribution device."

The project was financed with pooled funding through Extension Systems and Agricultural Research Programs

### Dept. name change

On Nov. 1, the Department of Communications name will be changed to Information and Educational Technology.

to help facilitate electronic communication to the extension offices and experiment stations.

A team of eight CSO

employees headed by Jim Braun, project manager, are assigned to carry out the project in addition to their daily tasks.

Currently, 90 of 126 off-campus sites have been successfully connected to OzNet, Terry said. Their goal is to

have all off-campus sites connected by the end of the year.

By connecting to OzNet, the users will have a statewide electronic-mail system with immediate access to the Internet. That will enable them to bring a world of information directly into their offices.

When approaching the project, CSO searched for products that would be the most effective with the least cost. They run several Novell networks, and their system is PC-based and Mac-based. From this they developed three options for off-campus sites to connect to OzNet.

The first is a stand-alone PC, which is a single computer with electronic-mail capabilities on which users may either create their own messages or bring messages on a disk and then run a program which initiates the file transfers.

The second is a peer-to-peer network where computers are linked, but messages must be transferred to a single computer and a program run to initiate the transfer.

The third option is a full Novell NetWare network where sites that already use Novell NetWare 3.x will be able to install a Global Message Handling System on their own network. When users compose messages, their network fileserver will automatically connect to OzNet to exchange mail, Terry said.

Each office chooses the option that fits their current system and budget.

The advantage of the system is the message-composing time is not spent online running up a long-distance phone bill. The system is only used when actually transferring files.

"The Global Message Handling System is what we want everyone to move toward," Terry said. "With Global MHS, we will try and hold costs to \$30,000-\$40,000 a year when everything gets very busy."

Global MHS provides e-mail access.

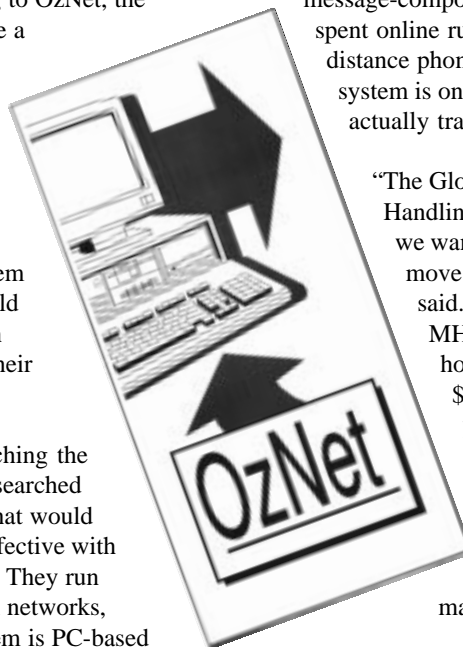
Some states that offer e-mail, and full FTP and Telnet access have seen annual telecom charges as high as \$300,000, Terry said.

Ten off-campus sites will be on Global MHS by late fall. Sites currently using Global MHS are Sedgwick County Extension Office in Wichita, South Central Area Extension Office in Hutchinson, Pottawatomie County Extension Office, and Riley County Extension Office in Manhattan.

Getting the offices linked to OzNet has been the first step. The next step is determining the information that will be available on OzNet, which is one of the missions of an ESARP committee that has been meeting since March.

### Electronic Publications Committee

The Electronic Publications Committee is looking at what information



# network for electronic documents

resources to provide and how to provide them on the new information infrastructure, said George Brandsberg, information technologist and publications editor.

“One of the things that makes electronic publishing attractive is rapid retrieval, which the county extension agents want to better serve their clients,” Brandsberg said. “If someone wants to know how to deal with little green bugs on their tomatoes, or raspberry stains on a white silk blouse, they don’t want to wait on the phone or in the county agent’s office while he or she looks up the answer hidden away in a publication stored in a bank of file cabinets.”

Digitizing this information would make it immediately available without incurring the expense of printing. Answers to 80 percent of the questions county agents receive are found in 20 percent of their information resources.

The committee began meeting in March and plans to have recommendations ready in early 1995. The proposal will deal with digitizing and distributing 3,000 extension publications, plus experiment-station reports, photos, video, and sound in the future. It will also recommend standards and procedures, as well as a long-term plan and budget.

One step in this process is to evaluate software for electronic publishing. Committee members have been obtaining review copies, literature, and demo disks to make comparisons. Currently, they are also working on several information-base projects as learning exercises.

One such is the Family Resource Portfolio, which includes 41 publications addressing how to deal with



Larry Havenstein, network analyst, and Roger Terry, CSO coordinator, stand next to OzNet, the computer system connecting the state extension offices.

loss of income. This infobase is being created using Folio Views software. When completed, it will be sent to extension offices in 12 North Central states.

Brandsberg said the committee has many issues to decide and to suggest policy as the project progresses.

Implementing the committee’s recommendations will depend on their being adequately funded in the future. “Unless we get the necessary financial support from the administration, we won’t go much farther than we are now,” he said.

## Multimedia projects

The Computer Systems Office is also working on multimedia programs spurred by an original project that received a grant from CITAC.

“The philosophy behind this was to leverage money to continue multimedia projects on campus,” Roger Terry said.

Paul Jennings, professor of horticulture, received the grant to develop a multimedia-formatted 200-level

horticulture class. The project involved digitizing slides and graphics to be accessed in the lecture outline via hotwords and buttons, and providing the necessary equipment to display this information in a lecture-hall setting. This class was presented last semester.

Margie Knupp, computer trainer and multimedia consultant, is also working on several projects, one of which is a student-recruitment kiosk prototype.

The kiosk would be a computer station for students, parents, and others to learn about topics such as housing, tuition, college history, courses of study, and financial-aid deadlines. The prototype is focusing only on the College of Agriculture at this point.

## Unicorn Provider

For the past three years, CSO and the Weather Data Library have been providing the weather information that’s automatically processed and displayed daily in Unicorn. The data is from the National Weather Service.

## Fall 1994 free computing sessions

Computing and Network Services offers free computing sessions for students, faculty, and staff on a variety of computing and networking topics. Most sessions address how to use K-State's KSUVM mainframe and the public Unix system.

Upcoming topics include:

- general mainframe and Unix info
- CMS and Unix basics
- Bitmail on the mainframe
- Pine and elm electronic mail in Unix
- Xedit editor on the mainframe
- vi editor on the Unix system
- Unicorn campus information system
- information retrieval methods using Gopher and file transfers
- software overviews on SAS, WordPerfect, and Grader/Roster
- Windows applications
- SAS, Grader/Roster, other software

Each seminar is designed as an independent unit. Topics are offered several times during the semester for the convenience of the University community. Some topics are offered in several sessions, where session A provides an introductory overview and other sessions discuss advanced features.

All training sessions are held in 202 Fairchild Hall. Attendance is on a first-come first-served basis.

A free Unix and/or mainframe (KSUVM) account is required for most sessions. To obtain one, visit the CNS Consulting Office in 126 Nichols Hall (at least two hours prior to attending a session) and show them your K-State ID. It usually takes a few minutes for a consultant to assign your account, and another hour before the account is processed automatically on K-State's public computer systems.

Date	Time	Topic	Date	Time	Topic
Oct 3	9:30 a.m. 10:30 a.m. 1:30 p.m. 2:30 p.m.	Overview MosaicA CMSA File TransferA	Oct 26	9:30 a.m.	Unix D
Oct 4	8:30 a.m.	File TransferA	Oct 31	8:30 a.m. 9:30 a.m. 1:30 p.m.	CMSA Unix E WordPerfect Intro
Oct 5	10:30 a.m. 1:30 p.m. 2:30 p.m.	Mosaic B CMS B File Transfer B	Nov 2	8:30 a.m. 9:30 a.m. 1:30 p.m.	CMS B vi C Unicorn
Oct 6	8:30 a.m.	File Transfer B	Nov 7	8:30 a.m. 9:30 a.m. 1:30 p.m.	XeditA elmA Pine A
Oct 10	9:30 a.m. 10:30 a.m. 1:30 p.m.	Unix A Lview & MPEG XeditA	Nov 9	8:30 a.m. 9:30 a.m. 1:30 p.m.	Xedit B elm B Pine B
Oct 11	9:30 a.m.	Pine A	Nov 14	8:30 a.m. 9:30 a.m.	BitmailA elm C
Oct 12	9:30 a.m. 10:30 a.m. 1:30 p.m.	Unix B WordPerfect Intro Xedit B	Nov 16	8:30 a.m. 9:30 a.m.	Bitmail B nn
Oct 13	9:30 a.m. 10:30 a.m.	Pine B Unicorn	Nov 21	8:30 a.m.	Bitmail C
Oct 17	9:30 a.m. 1:30 p.m.	vi A Bitmail A	Nov 28	9:30 a.m.	GopherA
Oct 19	9:30 a.m. 1:30 p.m.	vi B Bitmail B	Nov 30	9:30 a.m.	Gopher B
Oct 24	9:30 a.m. 1:30 p.m.	Unix C Bitmail C	Dec 5	9:30 a.m.	File TransferA
			Dec 7	9:30 a.m.	File Transfer B

## New training topics

Several new topics are available this fall in the free computer-training sessions offered by CNS. New topics include:

- **Pine** — a Unix electronic mail system for beginners (Requirement: Unix A)  
**Pine A** — Sending, reading, deleting, saving, and replying to mail  
**Pine B** — Address books, group mail, folder lists, printing
- **Winsock** — Suite of applications for use in the Windows environment (Requirement: none)  
**Winsock A & B** - Overview of applications, a TN3270 client (for connection to KSUVM), a Telnet

client (for connection to Matt and other Unix systems), an FTP client (for transferring files between systems).

- **Mosaic** — a tool used to allow access to worldwide resources available through the Internet (Requirement: Winsock A & B)  
**Mosaic A** — Concepts, Internet, client/server, how to begin/end, online help, basic movement, types of information, saving/mailling  
**Mosaic B** — Options, queries, good locations
- **Lview & MPEG** — Software allows viewing of pictures and movies. Use with FTP and Mosaic.

## **Faculty and staff computer classes now scheduled on demand basis**

*by Faye Kennedy*  
*CNS training*

Computer-training courses for faculty and staff are being offered in a new format this fall by Computing and Network Services.

The usual courses (see list below) are available for enrollment, but are only taught when a minimum of eight people enroll per topic. Classes are scheduled on an individual basis when the minimum enrollment is met.

Enrollment is done through Employee Relations on the PER-1 form, which is available at the Employee

Relations office in 228 Anderson Hall. Patricia Howell will take enrollment and keep CNS training staff apprised of the enrollment numbers.

The following classes are open for enrollment:

- Beginning DOS
- Beginning Windows
- Intermediate Windows
- Beginning dBase III+
- Intermediate dBase III+
- Beginning dBase IV
- Intermediate dBase IV
- Beginning Lotus 1-2-3
- Lotus Topics  
(Advanced Formula, Graphs, Sheet

Design/Template, Worksheet Range Operations, Advance Printing, Custom Printing in WP, Data Computation Operations, Database, Macros)

- Beginning WP for DOS (5.2)
- Beginning WP for DOS (6.0)
- Beginning WP for Windows (6.0)
- Transition: WP DOS to WP Windows
- WordPerfect for DOS Topics (Tabs, Block/Editing, Beginning Columns, Sorting, Beginning Merge, More Merge, Equation Editor, Printing, Graphics, Newsletters, Outline list, Index/ Table of Contents, Tables, Footnotes/Endnotes, Beginning Macros, Styles)

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## **Use self-paced audio tapes to learn about computer software**

*by Faye Kennedy*  
*CNS training*

Several self-paced audio tapes available through the CNS training section provide computer-training alternatives to K-Staters. Topics available include:

- How to Use Microsoft Windows, Version 3.1
- How to Use WordPerfect for Windows, Version 5.2
- How to Use MS-DOS 6
- How to Use dBase IV
- Advanced Training for dBase IV
- Advanced Training for Lotus 1-2-3, Release 2.2

Each set contains four tapes, a data

diskette, and a short, quick-reference guide. A tape recorder for playing the tapes is also available. These tapes would be excellent for anyone unable to attend the regularly scheduled training classes offered by CNS.

Students, faculty, and staff may schedule to use the tapes in Fairchild 203, where sample data files are installed on a computer. This allows the training staff to assist users if questions or problems arise.

Faculty and staff may also check the tapes out for use in their office or home for a one-week period.

Tapes may be reserved and checked

out from CNS trainers Faye Kennedy, Nancy Calhoun, and Clark Sexton. Their offices are located in Fairchild 203D and 203E. (Exit the elevator at floor "LM" in Fairchild Hall. Training offices D and E are on the east side.)

For more information or to reserve the tapes, contact the training staff via phone or electronic mail:

Faye Kennedy  
532-4919, [faye@ksu.edu](mailto:faye@ksu.edu)

Nancy Calhoun  
532-4920, [ncalhoun@ksu.edu](mailto:ncalhoun@ksu.edu)

Clark Sexton  
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# Publications

## CNS Information Center to move to Nichols 126

Plans are under way to move the Computing Information Center (currently in 203 Fairchild Hall) to the Nichols 126 lab in October. This will once again place the majority of CNS's public-use documentation near CNS's consulting services, where it is often most used.

Announcements will be posted when the transition to Nichols is made. Evening hours will also be implemented for the information center this fall once the move to Nichols is completed.

## Electronic Collegian to be spotlighted at convention

by Ron Johnson  
Student Publications director

A K-State computing student will lead a national convention session on electronic newspapers. Ryan Korte, senior in electrical engineering from Highland, will speak at the Fall National College Media Convention in early November in New Orleans. More than 2,000 collegiate journalists and their media advisers are expected to attend the convention, sponsored by College Media Advisers and Associated Collegiate Press.

Korte is the systems manager of K-State's Student Publications Inc., which publishes the *Kansas State Collegian* daily newspaper, the *Royal Purple* yearbook, and the campus phone book.

"Digitizing Your Publications" is Korte's session at the convention. He will focus on how he helped establish the *Electronic Collegian*, a computer version of the daily newspaper. Stories, graphics, and photos are posted electronically each day, and readers around the world have computer access to it through the Internet and the Collegian's World Wide Web server.

The Collegian's electronic address is:  
<http://www.spub.ksu.edu/>

At Student Publications Inc., Korte is one of four students who manage more than 60 CPUs, four file servers, and nine laser printers.

## Computer publications available for checkout

Looking for current computing information? Stop by the Computing Information Center in 203 Fairchild Hall between 8:30 a.m.-5 p.m. (use the LM elevator button). You can browse or check out some good reading material, including:

### Magazines

*AT&T Technical Journal*  
*Beyond Computing*  
*BYTE*  
*CD-ROM World*  
*Client/Server Journal*  
*Communications News*  
*Computer Shopper*  
*Data Based Advisor*  
*Database Programming & Design*  
*Datamation*  
*Evaluation Engineering*  
*Electronic Packaging & Products*  
*Electronic Products*  
*Enterprise Systems*  
*IBM Internet Journal*  
*Interconnection Magazine*  
*LAN Magazine*  
*Macworld*  
*Managing Office Technology*  
*New Media*  
*Observations*  
*Open Computing*  
*OS/2 Professional*  
*PC Computing*  
*PC Magazine*

### PC Publishing and

*Presentations*  
*PC World*  
*PC World - Lotus Edition*  
*RS Magazine*  
*SAS Communications*  
*Stacks Magazine*  
*Sun Expert*  
*Systems Journal*  
*Test & Measurement World*  
*Windows Magazine*  
*WordPerfect Magazine*  
*WordPerfect for Windows*

### Newspapers

*The Chronicle of Higher Education*  
*Communications Week*  
*Computer Reseller News*  
*ComputerWorld*  
*Electronic Buyer's Guide*  
*Info World*  
*Information Week*  
*LAN Computing*  
*LAN Times*  
*MAC Week*  
*Network World*  
*Open Systems Today*  
*PC Week*

## New items at the Information Center

- *Network World*
- *New Media*
- *CD-ROM World*
- *SIGCSE Bulletin*
- *Computer Reseller News*
- *ACM Ada Letters*
- *Syllabus*

## 46 new micros installed in labs

Forty-six new 80486 microcomputer systems were installed in K-State's public computing labs during the summer. The machines were MicroTech 80486 DX2-66 personal computers with 16 megabytes RAM and 17" monitors; they replaced the old 80286 computers in the labs.

All the MicroTechs came with Microsoft Windows 3.1 and a 32-bit 1-megabyte VESA video upgrade board for each unit.

These items will significantly enhance the efficiency of the machines; they were purchased from state contract using existing options.

The total purchase price of this order was approximately \$124,000. It represents a large portion of the FY94 CITAC funding which, in part, was designated for the enhancement of public computing labs on campus.

### CNS staff changes

#### Consulting Office

**Angelina Lemon**, sophomore in computer engineering, was hired as a student consultant in September. **Ray Cole**, student consultant for six years, graduated in May and left in August to accept a full-time computer-consultant position at Emporia State University.

#### Maintenance and Repair

**Steven Roles** was hired in May as an installation and service technician.

#### Novell Network Support

**Zachary Metzinger**, freshman in computer engineering, was hired in September as a student consultant to provide Novell lab support.

#### Operations

**Giridhara Krishnan**, student operator, left in June. **Helen White**, junior in human ecology and mass communication, was hired in July as a student operator. **Jason Boyer**, freshman in pre-health professions, and **Madonna Ulvenes**, graduate student, were hired in June as student control clerks/dispatchers. **Michael Senften**, student operator, left in August. **Xiaoqing Wu**, student control clerk/dispatcher, left in June but returned to the Operations section in September as a student control clerk.

## What's new in Unicorn

### 21 September 1994

Sections of the Faculty Handbook were updated by the Office of the Vice Provost, and a new section — Appendix R — was added. Sections updated were C, G, and the Changes chapter.

*LOCATION: University Policies*

### 17 September 1994

A calendar of seminars supported by the KSU Ecology Research Group has been posted in Unicorn. It lists seminars scheduled for fall 1994.

*LOCATION: Calendars and Schedules*

### 15 September 1994

The Community Service Program has put a menu of services on Unicorn — including an overview of that unit, upcoming events, a directory of Community Service staff, Kansas summer teams, international teams, YES tutoring, the Volunteer Clearinghouse, and S.A.V.E. projects.

*LOCATION: Service Units*

### 13 September 1994

A list of current daily lunch specials has been added to the list of fountain and retail items available at Call Hall's Dairy Bar, courtesy of the Department of Animal Sciences and Industry. For more information, call the Dairy Bar at 532-1292.

*LOCATION: Marketplace*

### 1 August 1994

Dairy products available at the Dairy Bar in Call Hall are being posted in Unicorn by Animal Sciences and Industry.

*LOCATION: Marketplace menu*

### 19 July 1994

Meat items available for purchase at the Meat Lab in Weber Hall are being posted in Unicorn by Animal Sciences and Industry.

The department also plans to post a price list for dairy products available at Call Hall. *LOCATION: Marketplace menu*

### 15 July 1994

Some sports events are being provided in Unicorn on a temporary basis by Computing and Network Services. The Sports Information Office is faxing schedules of athletic events to CNS, which then inputs the data. The schedules obtained to date: K-State football, men's basketball, women's basketball, and women's volleyball.

*LOCATION: Calendars and Schedules*

### 13 July 1994

Unicorn's Calendars and Schedules section was reformatted and updated by Computing and Network Services. The 2-column format was changed to one column, and an asterisk (\*) now marks each individual calendar that is compiled into the Master Calendar of Events. Several departmental calendars that were quite outdated were deleted. Major, all-University calendars were placed directly beneath the Master Calendar, including KSU's academic calendar (which will be provided soon by the Registrar's Office), an athletic calendar, K-State Union events, and miscelany KSU events. Departmental and/or specialized calendars follow in a separate grouping.

*LOCATION: Calendars and Schedules*

# What in the world?

**Traffic on the Internet** has grown by 20.7 percent during the month of March — the largest single jump in the history of the Internet. **Gopher traffic** grew by 17.6 percent and http (WWW) grew by 32 percent. (from *Internet Society*, reported in *Edupage*, 4/28/94)

**The 1995 U.S. Budget** is now available in Gopherspace at the hostname `gpher.esa.doc.gov`. (from *Open Channel*, April 1994)

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**The U.S. President** and Vice President are accessible via electronic mail. Don't count on a reply. You will receive an acknowledgment of receipt of the message. Addresses are:

`president@whitehouse.gov`  
`vice.president@whitehouse.gov`

By the end of the year staffers hope to be able to return a tailored reply for each message received. (from *Open Channel*, April 1994)

**E-Mail Addresses of the Rich & Famous** by Seth Godin is a book that features a variety of e-mail addresses—from organizations such as the Online Career Center, to actors, government officials, and fictional characters.

Be sure to read the introduction for guidelines on sending mail. As it says, "Careful! The door to the world of uncensored e-mail is held open quite precariously."

Sample addresses:  
`santa@north.pole.org`  
`howardduck@aol.com`

**The Library of Congress** is planning to convert all of its collection of important materials to digital form. This would make a library of digitized information that could be accessible

around the country through computer networks. They hope to announce this project next month. (from the *New York Times*, 9/12/94)

**The population of CD-ROM readers** installed worldwide borders on 12 million; the growth in 1993 of CD-ROM titles climbed by 54 percent and of CD-ROM installations by a mammoth 155 percent. The cost of pressing a CD-ROM disc comes out at less than \$3. (from *Electronic Publishing*, 9/16/94)

**Three Mosaic books with software packages** have just been released by O'Reilly and Associates. Each package costs \$29.95 and covers Mosaic in depth as well as HTML and GNN. O'Reilly fully supports the software and will provide updates to registered users.

- *The Mosaic Handbook for the Macintosh*, by Dale Dougherty and Richard Koman
- *The Mosaic Handbook for Microsoft Windows*, by Dale Dougherty and Richard Koman
- *The Mosaic Handbook for the X Window System*, by Dale Dougherty, Richard Koman, and Paula Ferguson



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