

IN  
THIS  
ISSUE:

**Practice 'Safe  
Computing' ..... 2**

**Finding Windows  
Software on  
'Public' Server..2**

**Winter Term  
Workshops .....3-4**

**Videotaped  
Workshops ..... 5**

**Windows NT:  
Look Before You  
Leap ..... 5**

**Symantec  
Donates Antiviral  
Software ..... 6**

## We're Number One! UO Computer Network Wins Top Award

UOnet, the University of Oregon's campuswide computer network, recently took top honors in a national competition that recognizes best practices in campus networking in higher education. The 1996 Award for Excellence in Campus Networking was formally presented to University Computing director Joanne Hugi and assistant directors Dale Smith and Dave Ulrich on December 5 at the CAUSE 96 conference in San Francisco. CAUSE is the organization that promotes computing and network information resources in higher education.

CAUSE cited UOnet for both its impressive technical specifications and its practical applications. Fulfilling our network engineering staff's early vision of bringing network access to the entire University community, UOnet currently provides some 20,000 students, faculty, and staff with convenient access to state-of-the-art networking facilities, services, and resources. The UO network was also commended for advancing a new level of interinstitutional collaboration, through projects such as the Network for Engineering and Research in Oregon (NERO) and the Lane Education Network (LEN), as well as its outreach efforts to involve government agencies and officials in network communication.

CAUSE award applicants are separated into two categories—those with institutional budgets over \$100 million, and those under. The UO won in the higher-budget category. Since the mid-1970s, the UO has invested some \$3.3 million of departmental funds and a U.S. Department of Education grant in the development of its network, considerably less than the \$21 million spent by last year's winner, Cornell University. Referring to the intensive effort involved in building UOnet's infrastructure, Hugi says, "Even with a small staff, we've been extremely creative in using our limited resources, and bold enough to excel. We believed we could build a world-class network, and we have."

The university's entry, endorsed by President Dave Frohnmayer and Provost John Moseley, was produced by Ulrich and publications editor Joyce Winslow. Other University Computing contributors were Hugi, Joe St Sauver (Academic User Services), Dale Smith (Network Services), Dave Meyer (Advanced Network Technology Center), and Lynn Buffing (Assistant to the Director). Contributors to the entry from other University departments were Deborah Carver and Andrew Bonamici (Knight Library), James Bailey (Academic Advising and Student Services), and Dave Barta (Telecommunications Services).

- continued on page 2

## RealAudio Adds New Dimension to Learning

RealAudio is a streaming audio server recently installed on DARKWING that enables campus computer users to listen to real-time or delayed audio streams via a Web browser.

RealAudio has the potential to be an extremely valuable educational tool. For example, instructors can record lectures and foreign-language exercises for students to play back at a later time, and musical examples and historical sound bites (such as excerpts from presentations or speeches) can be made more readily available.

We are encouraging the University community to develop audio materials for use on RealAudio. To learn how to create materials for the server using application, encoding, and Web development tools, browse the RealAudio product information page at

<http://www.realaudio.com/products/tools.html>

- continued on page 2

**Listen  
Up!**

## Number One, continued...

A summary of the UO's achievement is presented online at

<http://cause-www.colorado.edu/pd/awards/network/1996/oregon-sum.html>

The complete text of the UO's entry may be viewed via *Adobe Acrobat* at

<http://cause-www.colorado.edu/pd/awards/network/1996/oregon.pdf>

CAUSE winners and applications in every category are available at

<http://cause-www.colorado.edu/pd/awards/network/1996/applicants.html>

## New Virus Threat Underscores Need to Practice 'Safe Computing'

Computer viruses, programs written and spread to corrupt or destroy computer files, are easily transmitted when diskettes and computers are unprotected. Three new strains of viruses recently invaded the UO campus: **Word Macro/Concept**, **Word Macro/Wazzu**, and **Monkey.B** (also known as **Empire.Monkey.B**).

Word Macro viruses are particularly dangerous because they can infect any Microsoft Word document that was created with Microsoft *Word 6.x* or 7, and can spread to any computer running *Word*—whether Mac or *Windows*. **If you are having unexplained problems with a *Word* document, such as reversed text, strange formatting, or odd dialog boxes that pop up when you open the document, your machine is probably infected.**

The **Monkey.B** virus can cause significant damage to an infected DOS-compatible computer. Once infected

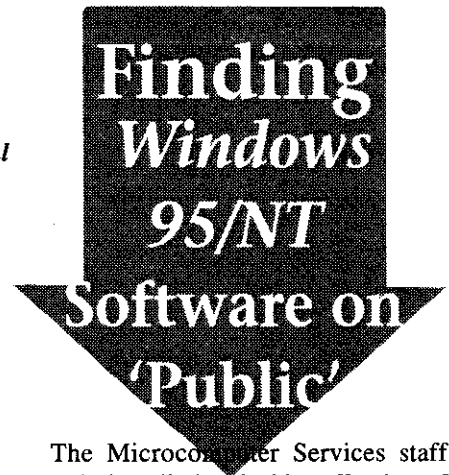
with **Monkey.B**, a machine can lose access to floppy disk drives, and its hard drive may require reformatting to remove the virus.

### Antiviral Tools

Prevention is the first law of "safe computing." There are two basic precautions personal computer owners should take to prevent viruses: (1) always scan diskettes that have been used in other machines before using them in your computer, and (2) install current antiviral software. Here is a brief overview of antiviral tools currently available:

**Commercial software.** The best way to protect yourself from computer viruses is to purchase and install commercial antiviral software, such as Symantec AntiVirus (Macintosh) or Norton AntiVirus (*Windows*).

- continued on page 6



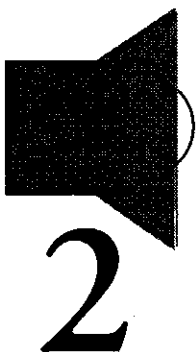
The Microcomputer Services staff recently installed a sizable collection of *Windows 95* and *NT* software on a server named "Public." You'll find the Public icon in the "Uoregon" domain, in the Network Neighborhood, under *Windows 95/NT*.

Unfortunately, some machines, both off-campus and remote, are unable to view the Uoregon domain and other *Windows 95/NT* machines in the domain, due to configuration inconsistencies. This is a complex technical issue involving *Windows 95/NT* and Microsoft Networking that is currently unresolved. If you'd like to learn more about this issue, you can browse the in-depth article published online at [http://micro.uoregon.edu/microsoft\\_networking.html](http://micro.uoregon.edu/microsoft_networking.html)

In the meantime, there are three alternate ways to download software from Public:

1. ftp to [public.uoregon.edu](ftp://public.uoregon.edu); then log in on the server with the username **anonymous** and password *userid@host* (replace *userid* with your userid and *host* with the name of your system).
2. Open location <ftp://public> from your Web browser,
3. Get a copy of *WS-FTP*, a package distributed by Microcomputer Services on the *Windows 95 Networking Application Installer*, or a similar package. This package enables you to view all available folders on Public and browse each one quickly.

The staff is continuing to work on a better solution to accessing Public via the Network Neighborhood. Watch forthcoming issues of *Computing News* for developments in this arena.



## RealAudio, continued...

To listen to a sample RealAudio stream, run your Web browser and open <http://www.realaudio.com>. Download and install the RealAudio player and open [pnm://darkwing.uoregon.edu/carolLra](http://darkwing.uoregon.edu/carolLra). That melodious sound you hear is the UO choir singing "Carol of the Bells," recorded by Jim Rusby of the School of Music. Links to other sample broadcasts are available on RealAudio's home page.

If you have questions about creating materials for the RealAudio server, contact Hans Kuhn (phone: 346-1714; e-mail: [hak@darkwing](mailto:hak@darkwing)).

# WINTER WORKSHOPS

This term, the UO Library, in cooperation with the Computing Center and Career Center, is again offering workshops on a variety of computing-related topics. These workshops are free to UO faculty, staff, and students, and most are held in Knight Library (see the workshop location codes at the bottom of page 4).

No advance registration is required. Seating is limited, so participation will be on a first-come, first-served, basis. Requests for accommodation related to disability should be made to 346-1897 one week in advance of the workshop.

For full course descriptions, call 346-1817 or see <http://libweb.uoregon.edu/instruct/internet.html#internet> Printed descriptions of the workshops are also available at the Library's reference desk and in the Information Technology Center.

**Videotapes:** Videotapes of computing workshops are available for checkout and purchase. Call the Instructional Media Center (346-3091) or Computing Center Documents Room (346-4406) for details. This term, selected video workshops are also being aired on cable Channel 14 in the dorms (see "UO Computing Workshops Air on Channel 14" on page 5 of this issue).

Workshop	Day/Date	Time	Location
<b>General Internet Topics</b>			
<i>Introduction to the Internet</i>	Wed Jan 8	12:30 - 1:50pm	EC
	Tues Jan 14	5 - 6:20pm	EC
	Wed Jan 22	12:30 - 1:50pm	EC
	Mon Jan 27	3 - 4:20pm	EC
	Thu Feb 6	1 - 2:20pm	EC
<i>The Janus System: A New Look</i>	Wed Jan 8	4 - 5:20pm	EC
	Thu Jan 16	1 - 2:20pm	EC
<i>USENET Discussion Groups</i>	Wed Jan 29	3 - 4:20pm	EC ( <i>Windows</i> )
	Wed Feb 5	3 - 4:20pm	ITC ( <i>Macintosh</i> )
<b>World Wide Web</b>			
<i>World Wide Web for the Computer Novice</i>	Thu Jan 9	1 - 2:20pm	EC
<i>Introduction to the World Wide Web</i>	Thu Jan 9	5 - 6:20pm	EC
	Fri Jan 10	9 - 10:20am	EC
	Wed Jan 15	12:30 - 1:50pm	EC
	Thu Jan 16	3 - 4:20pm	EC
	Tues Jan 21	3 - 4:20pm	EC
	Thu Jan 23	9 - 10:20am	EC
	Wed Jan 29	12:30 - 1:50pm	EC
	Tues Feb 4	2 - 3:20pm	EC
<i>Netscape Tool Kit: Helpers and Plug-Ins</i>	Tues Jan 21	1 - 2:20pm	EC ( <i>Windows</i> )
	Mon Jan 27	12:30 - 1:50pm	ITC ( <i>Macintosh</i> )
<i>Beyond Just Surfing: How to Find What You Really Want on the Net</i>	Thu Jan 9	9 - 10:20am	EC
	Mon Jan 13	12:30 - 1:50pm	EC
	Wed Jan 15	7 - 8:20pm	EC
	Wed Jan 22	4 - 5:20pm	EC
	Tues Jan 28	4 - 5:20pm	EC
	Fri Jan 31	2 - 3:20pm	EC
<b>Web Publishing</b>			
<i>Introduction to Web Publishing</i>	Wed Jan 15	2:30 - 4:20pm	EC ( <i>Windows</i> )
	Tues Jan 21	1 - 2:50pm	ITC ( <i>Macintosh</i> )
	Tues Jan 28	1 - 2:50pm	EC ( <i>Windows</i> )
	Mon Feb 3	1 - 2:50pm	ITC ( <i>Macintosh</i> )
	Mon Feb 10	1 - 2:50pm	EC ( <i>Windows</i> )
	Tues Feb 25	2 - 3:50pm	ITC ( <i>Macintosh</i> )

# WINTER WORKSHOPS

Workshop	Day/Date	Time	Location
<i>Special Topics in Web Publishing:</i>			
<i>More HTML</i>	Thu Jan 16	1 - 2:50pm	LR
<i>Images on Web Pages</i>	Wed Jan 22	10 - 11:50am	ITC (Macintosh)
	Thu Jan 23	1 - 2:50pm	LR (Windows)
<i>Designing for the Web</i>	Thu Jan 30	1 - 2:50pm	LR
<i>Debugging Tools</i>	Thu Feb 6	1 - 2:50pm	LR
<i>Animation on the Web</i>	Thu Feb 13	1 - 2:50pm	LR
<i>HTML Editors and Converters</i>	Wed Feb 19	10 - 11:50am	ITC (Macintosh)
	Thu Feb 20	1 - 2:50pm	LR (Windows)
<i>Maps on Web Pages</i>	Thu Feb 27	1 - 2:50pm	LR
<i>Forms and CGI Scripts</i>	Thu Mar 6	1 - 2:50pm	LR
<i>Special Topics</i>			
<i>Art and Architecture Information</i>	Thu Jan 23	4:30 - 5:50pm	EC
	Tues Jan 28	6 - 7:20pm	EC
<i>Excel 5.0 Advanced Topics</i>	Wed Mar 5	2 - 3:50pm	EC
<i>Finding a Job on the Internet</i>	Thu Jan 23	2 - 3:20pm	EC
	Thu Feb 20	3:30 - 4:50pm	EC
<i>Internet Resources for Geographers</i>	Tues Jan 14	3 - 4:45pm	EC
	Wed Jan 22	7 - 8:50pm	EC
<i>Introduction to Scanning: Creating and Moving Digitized Images</i>	Thu Feb 13	3 - 4:20pm	ITC
	Wed Feb 19	3 - 4:20pm	ITC
<i>Asynchronous Conferencing with Motet</i>	Thu Jan 9	3 - 4:45pm	EC
<i>Chaos or Order? Using Bibliographic Management Software</i>	Mon Feb 3	4 - 5:20pm	EC
	Tues Feb 4	4 - 5:20pm	EC
<i>Copyright Issues and Images</i>	Tues Jan 14	3:30 - 4:50pm	IMCB
	Fri Jan 31	noon - 1:20pm	LH (*note location!)
<i>Copystand Photography Fundamentals</i>	Sat Jan 18	10am - 12:30pm	IMCB
<i>Electronic Journals</i>	Mon Feb 10	4 - 5:20pm	EC
	Tues Feb 11	4 - 5:20pm	EC
<i>Lexis/Nexis</i>	Tues Jan 7	3 - 4:20pm	EC
	Mon Jan 13	4 - 5:20pm	EC
	Fri Jan 17	9:30 - 10:50am	EC
	Thu Jan 30	4 - 5:20pm	EC
	Thu Feb 6	4 - 5:20pm	EC
<i>Lexis/Nexis (Advanced)</i>	Fri Jan 31	9 - 10:20am	EC
	Fri Feb 7	1 - 2:20pm	EC
	Mon Feb 24	4:30 - 5:50pm	EC
<i>Special Features of SAS to Analyze and Interpret Data</i>	Fri Jan 17	2 - 3:50pm	EC
<i>Using PowerPoint for Presentations</i>	Mon Feb 17	2 - 3:50pm	EC
<i>World News Connection (FBIS Online)</i>	Wed Feb 19	2 - 3:20pm	EC

# 4

## WORKSHOP LOCATION CODES

EC: Electronic Classroom (Room 144 Knight Library)

LH: Lawrence Hall (Room 278)

IMCB: Instructional Media Center, Studio B (Ground Floor)

LR: Lois Reed Seminar Room (235)

ITC: Information Technology Center (2nd Floor)

## UO Computing Workshops Air on Channel 14

Beginning on January 6, campus housing residents will be able to view a number of videotaped computing workshops on Cable Channel 14. Teaching faculty may want to mention this resource to their students.

Workshop schedules are listed below.\* These and other videotaped workshops are available for checkout or purchase from the Computing Center Documents Room (205) and at the front desk of the Knight Library's Instructional Media Center (ground floor). The videos range from 12 minutes to three hours (three one-hour tapes) in length, and may be checked out for two weeks at a time. Note that a photo I.D. is required for checkouts.

Workshop Video	Day/Date	Time
<i>Computer Fundamentals</i>	Mon Jan 6	6 - 8pm
	Wed Jan 15	6 - 8pm
<i>Introduction to Macintosh</i>	Mon Jan 6	8 - 10pm
	Wed Jan 15	8 - 10pm
<i>UO Computing Resources Tour</i>	Tues Jan 7	6:30 - 6:45pm
	Wed Jan 8	6:30 - 6:45pm
	Thu Jan 9	6:30 - 6:45pm
	Thu Jan 16	6:30 - 6:45pm
<i>Introduction to Windows 95</i>	Tues Jan 7	7 - 10pm
	Thu Jan 16	7 - 10pm
<i>Introduction to Windows 3.1</i>	Wed Jan 8	7 - 10pm
<i>Introduction to Microsoft Word (Windows &amp; Macintosh)</i>	Thu Jan 9	7 - 10pm
<i>Microsoft Excel 5.0 Fundamentals</i>	Mon Jan 13	6 - 8pm
<i>Getting More Out of Microsoft Excel 5.0</i>	Mon Jan 13	8 - 10pm
<i>Microsoft Word Advanced Formatting for Papers</i>	Tues Jan 14	6 - 8pm
<i>Getting More Out of Microsoft Word 6.0</i>	Tues Jan 14	8 - 10pm

\*Please Note: This schedule is subject to change. For the most current schedule, see <http://cc.uoregon.edu/ccworkshops.html>

## Windows NT 4.0: Look Before You LEAP!

Thinking of upgrading from *Windows 95* to *Windows NT 4.0*? You might want to consider a few things before you plunge ahead. While the new *NT* operating system offers some nice features for advanced users, it can pose some difficulties for novices. If you're in the novice category, the Microcomputer Services staff recommends that you defer upgrading to *NT 4.0* for now. Here are a few reasons...

### Compatibility with Old Software and Hardware

The primary design goals of *Windows 95* include compatibility with DOS and *Windows 3.1* software, while *Windows NT* emphasizes reliability and security. Unfortunately, you cannot have it all (at least, not yet). *Windows NT* will not run many DOS or *Windows 3.1* programs because of their tendency to compromise reliability.

*Windows 95* also offers excellent compatibility with old hardware. Almost any device (printer, video card, etc.) that works with DOS/*Windows 3.1* is supported under *Windows 95*. *Windows NT*, on the other hand, offers limited device support. Should you choose to upgrade from *Windows 95*, you should probably check with Microsoft first to see if *Windows NT* supports your hardware. Call Microsoft's toll-free customer

service line (1-800-426-9400), or contact the company online at <http://www.microsoft.com>

### NT's Advantages

Could *NT* be right for you? Maybe, if compatibility with older hardware and software is not a concern. Here are some advantages of *NT 4.0*:

- much improved crash protection
- better security
- more efficient operation on Pentium Pro processors
- built-in 3D graphics functions

### Looking Ahead...

While upgrading to *NT* may not be the best option for you in the short run, *NT* is undoubtedly Microsoft's wave of the future, and it's likely that *Windows NT* and *95* will eventually merge into one product. For now, just keep in mind that what *NT* does not provide is compatibility with older applications or the same ease of use found in *Windows 95*.

5

## 'Safe Computing', continued...

**Freeware.** Some freeware products also provide various levels of protection. There are currently no free programs that protect against the Wazzu virus, but two freeware deterrents exist for Word Macro/Concept: *Scanprot.doc* and *Wvfix.doc*.

**Shareware.** *F-PROT*, a shareware program that is free to educational users, is one of the best DOS-based antiviral programs currently available. The free version of *F-PROT*, along with its companion program *F-MACROW*, can often detect and remove the Monkey.B and Word Macro viruses, but won't necessarily guard against viruses written specifically for *Windows 95/NT*.

**Specific Macintosh Protection.** Aside from the new Word Macro viruses, few new viruses have been discovered that affect Macintosh computers. While it does *not* currently protect against Word Macro viruses, *Disinfectant* continues to be the best freeware protection available for other viruses on Macintosh computers.

### Copying Antiviral Tools from the Public Domain

**Tools for Macintosh.** Mac users can copy antiviral software from the CC Public Domain server on UOnet. To access CC Public Domain,

1. Pull down the Apple menu and select "Chooser." Scroll down the AppleTalk Zones and click "UOnet."
2. Click the AppleShare icon once to display a list of file servers for the UOnet zone, displayed on the right side of the Chooser.
3. Double-click "CC Public Domain" and log in as "Guest."

Once logged in, open the "Virus Software" folder and copy the software you need. You can also access CC Public Domain via *ftp* to [ccpd.uoregon.edu](http://ccpd.uoregon.edu).

**Tools for DOS and Windows.** *Windows 3.x* and DOS users can copy antiviral programs from the Public Domain Software Library on Zeus by typing

```
F:\> login zeus/pd
<Enter>
```

*Windows 95* and *NT* users can obtain antiviral software

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from the Public server (see "Finding *Windows 95/NT* Software on Public" on page 2 of this issue), either by accessing Public directly or by using *ftp* (*ftp* to [public.uoregon.edu](http://public.uoregon.edu)).

### Hoax Viruses

Hoaxes, a fairly recent complication to anti-virus efforts, create mayhem by sending e-mail warnings of new and crippling viruses that do not actually exist. Recent hoax viruses include "Good Times," "Deeyenda," and "Irina." The only damage from these bogus messages is the disk drive space they consume, as well as lost time and aggravation.

### Need More Antiviral Advice?

For more information on computer viruses, check out the Microcomputer Support Center's virus coverage at [http://micro.uoregon.edu/virus\\_info.html](http://micro.uoregon.edu/virus_info.html). If your computer does become infected, contact Microcomputer Services at 346-4412, or stop by the Microcomputer Support Center (202A Computing Center) for assistance in removing the infection.

## Symantec Donation Gives Booster Shot to UO Labs

UO microcomputer lab systems running *Windows 3.1* and *Windows 95* now have the latest antiviral protection, thanks to a generous donation of Norton AntiVirus software from Symantec Corporation, a Lane Education Network partner. This gift was made possible by Symantec's presence in Eugene, and the company's responsiveness to discussions with the Computing Center's Microcomputer and Academic Services staffs.

Because they are used by large numbers of people, microcomputer labs are particularly vulnerable to computer viruses, and UO labs are among the principal sites for spreading viruses on campus. Symantec's gift, valued at approximately \$10,000, should help to significantly reduce the spread of viruses on campus, as well as ease the financial burden of purchasing new antiviral software.

The Norton AntiVirus program is one of the premier antiviral products available on the market. Individual users are encouraged to purchase their own copies of antiviral software to protect home and office machines. To learn more about current viruses and what you can do to protect yourself from infection, see "New Virus Threat..." in this issue.

# 6