

# MugShots

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• Jan./Feb., 2000

## Apple Unveils OS X at MacWorld Expo

**R**easserting its leadership in personal computer operating systems, Apple has unveiled Mac OS X, the next generation Macintosh operating system. Steve Jobs demonstrated Mac OS X to an audience of over 4,000 people during his Macworld Expo keynote, and over 100 developers have pledged their support for the new operating system, including Adobe and Microsoft. Pre-release versions of Mac OS X will be delivered to Macintosh software developers by the end of this month, and will be commercially released this summer.

Mac OS X is a completely new implementation of the Macintosh operating system, featuring state of the art technology throughout, including an entirely new user interface called "Aqua". Mac OS X is designed to make computing even easier for consumers, while simultaneously extending the functionality for professional users. Mac OS X will fully replace the current generation Macintosh operating system over the next 12 months.

The new technology, Aqua, created by Apple, is a major advancement in personal computer user interfaces. Aqua features the "Dock"—a revolutionary new way to organize everything from applications and documents to web sites and streaming video. Aqua also features a completely new Finder which dramatically simplifies the storing, organizing and retrieving of files—and unifies these functions on the host computer and across local area networks and the Internet. Aqua offers a stunning new visual appearance, with luminous and semi-transparent elements such as buttons, scroll bars and windows, and features fluid animation to enhance the user's experience. Aqua is a major advancement in personal computer user interfaces, from the same company that started it all in 1984 with the original Macintosh.

Aqua is made possible by Mac OS X's new graphics system, which features all-new 2D, 3D and multimedia graphics. 2D graphics are performed by Apple's new "Quartz" graphics system which is based on the PDF Internet standard and

features on-the-fly PDF rendering, anti-aliasing and compositing—a first for any operating system. 3D graphics are based on OpenGL, the industry's most-widely supported 3D graphics technology, and multimedia is based on the QuickTime™ industry standard for digital multimedia.

At the core of Mac OS X is Darwin, Apple's advanced operating system kernel. Darwin is

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## Apple and EarthLink Form Partnership

Apple and EarthLink (NASDAQ: ELNK) today announced a multi-year partnership to deliver the best ISP (Internet Service Provider) service to Mac customers in the U.S. Under the terms of the partnership, EarthLink will become the exclusive ISP in Apple's Internet Setup Software included with all Apple Macintosh computers sold in the U.S. Apple will profit from each new Mac customer that subscribes to EarthLink's ISP service. In addition, Apple will invest \$200 million in EarthLink and receive a seat on EarthLink's board of directors.

"EarthLink and Apple share a passion for providing the highest-quality Internet access to Macintosh users, and together we're going to do it better than anyone else," said Steve Jobs, Apple's iCEO.

"The alliance allows both companies to capitalize on each other's strengths while combining the power of the Mac with the power of the Internet," said Garry Betty, president and CEO of EarthLink. "This partnership will bring our industry-leading Internet services to an increasing number of Macintosh users, right out of the box."

EarthLink's commitment to the Macintosh platform has won it numerous awards and a reputation for being one of the premier ISPs. EarthLink's Internet service will be offered to new

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March 2000 Calendar						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	Eecutive Committee Meeting 7:30 AHTLounge 22	23	Deadline for Newsletter Articles 24	25
26	27	28	General Meeting 7:30 PM GCC AHTBldg. Rm. 500 29	30	31	

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## From the Editor

# Mugsnidge Mutterings

As most of you know by now, you are going to elect a new president. My term has come to an end, and other responsibilities have encroached upon my ability to lead this organization in the manner it deserves. I will continue to edit the newsletter, but someone other than myself will have to take the reins. It was a difficult decision for me to make, being the ham that I am (said Sam), but membership numbers are falling and new enthusiasm and ideas are required to bring us back to our “days of glory”, when we had 100+ members enrolled and could get 40+ people out to a meeting.



Computer user groups as a whole are on the wane. But don't tell that to the PC group that meets in Cherry Hill, nor to our sister group the South Jersey Mac Apple Users Group. And above all, don't tell it to Rose Lynn, president of the Gold Coast Macintosh User Group and member of the User Group Advisory Board, whose leadership rebuilt her group from being debt-ridden and poorly attended to an enrollment of 250, treasury of \$3000, with high morale and many volunteers.

Many volunteers . . . maybe that's the key, and I know it's one area where I have failed miserably. I'm the president, I did the database, I did the newsletter, and I started the Computer Fair. No one else was available, and now it's too much for one person to handle. I had help—VP Walt Vennell, Secretary Jacki Moore and Treasurer Gordon Beckhart made a fantastic executive committee, and we all became good friends. Tony Fennen developed the original website, and Bob Buell and Walt assumed the responsibility when it became too much for Tony to keep up. We had a great thing going, and still do.

But it's somebody else's turn to lead. Somebody needs to have fresh recruiting ideas. Somebody needs to take over the Membership chair and run the committee so it attracts new members. Somebody needs to take over the data-

base and use its capabilities to do mailings like welcome letters, publicity letters and membership cards (oh, yes, I did those, too, way back when).

The point being that four, five or six people don't make the group. Everybody needs to pull together one hundred percent of the time, like at the computer fair setup. There were more hands available that night than there was work to do. It was wonderful to see everybody helping out to get the job done. It needs to happen at the Executive Committee meetings, and for more mundane things like planning meeting topics, bringing in ideas for fundraising, writing newsletter articles, digging up door prizes, special interest groups (SIGs—remember those?).

My predecessor gave up and I stepped into his shoes, full of the excitement that a new endeavor brings with it. I still have some of the excitement, but it has become tired, and there is no longer time in my schedule to support it. Fresh ideas need to be brought to the table. And then comes the hard part—they need to be executed. No, not killed, that's a different execution. Carried out executed.

What a concept! It simply requires willing supporters. People—bodies—ready to jump in and do whatever is necessary to keep the organization vital. A certain degree of loyalty and devotion to the cause of Macintosh users, to help their wonderful machines do all they are capable of doing.

We're all in this club to gain knowledge about how to do neat and ordinary tasks with our Macs. We all need help at one time or another. Nobody knows it all, except maybe for Bill Achuff, or David Pogue, or the people who write the book.

But it takes time. It takes time to go to someone's house and help with a hard drive crash. It takes time to talk someone through an extension conflict. It takes time even to send an e-mail advising someone who is stuck with buttons to change them to icons.

This is how the Macintosh Users Group of Southern New Jersey needs to be run. This is what I can no longer do. Will a new someone please step forward?

## Members On Line

*This column has been deleted for  
website posting*

## World Wide Web Sites of Interest

*Submitted by Frank Petrie*

### *News*

Macintosh News Network . . . . .<www.macnn.com/>  
MacSurfer Headline News . . . . .<www.macsurfer.com/>  
As The Apple Turns . . . . .<www.infoXczar.com/atat/>  
AAPL Investors . . . . .<www.appleinvestors.com/>  
MacOSRumors . . . . .<www.macosrumors.com/>

### *Help*

MacCentral Help Forum<www.maccentral.com/help/>  
MacTips . . . . .<www.themacintoshguy.com/>  
The SemperMac EvangeList  
<www.sempermac.com/lists/evangelist/>  
AppleWorks . . . . .<www.apple.com/appleworks/>  
The AppleScript Guidebook  
<www.apple.com/applescript/begin/pgs/begin\_00.html>

### *E-zines*

Byte Online . . . . .<www.byte.com/>  
Apple Wizards! . . . . .<www.applewizards.net>  
About This Particular Macintosh . . . . .<www.atpm.com>

### *Books*

Macbookshop.com . . . . .<www.macbookshop.com/>  
Peachpit Books . . . . .<www.peachpit.com>

### *Software*

VersionTracker . . . . .<www.versiontracker.com/>  
Download.Com . . . . .<www.download.com>  
Antique Mac Software  
<www.macintouch.com/earlymac.html>  
iCab <www.icab.de>

### *Buy & Sell*

Mac4Sale.com . . . . .<www.mac4sale.com/>  
DealMac . . . . .<www.deal-mac.com>  
MacTraesures<www.mactraesures.com>

### *Escrow service*

TradeSafe . . . . .<tradesafe.com/>

### *Appearance*

Allegro Themes Project . . . . .<atp.gpsmac.net/>  
ClixSounds . . . . .<www.clixsounds.com/>  
The Icon Factory . . . . .<www.iconfactory.com>  
DeskStop . . . . .<members.aol.com/deskstop/>

### *Utilities*

FinderPop . . . . .<www.finderpop.com/>  
Aladdin Systems . . . . .<www.aladdinsys.com/>  
Baker Street Assistant  
<www.casadyg.com/downloads/default.html>  
Swatch Internet Time  
<www.swatch.com/index\_download.html>

### *Alternative OSs*

LinuxPPC . . . . .<www.linuxppc.com/>  
Debian GNU/Linux . . . . .<www.debian.org/>

### *Flotsam*

The Apple Museum  
<www.applemuseum.seastar.net/sections/home.html>  
Driveways of the Rich and Famous  
<www.driveways.com/>

### *EarthCam*

Webcam Network . . . . .<www.earthcam.com/>  
AltaVista: Translations  
<babelfish.altavista.digital.com/cgi-bin/translate?>

## Apple Unveils Internet Strategy

# iTools—A Revolutionary New Category of Internet Services

## KidSafe—A Way to Protect Our Kids on the Internet

Apple took the wraps off its highly anticipated Internet strategy, introducing a new category of Internet services called iTools; a completely redesigned Apple.com web site featuring iReview and iCards; and a multi-year partnership and investment with Earthlink for Internet access at MacWorld Expo in San Francisco.

iTools is a revolutionary new category of Internet services that takes advantage of Apple's unique technology on both ends of the Internet—the operating system on the client side (Mac® OS 9) and the services software running on Apple's Internet servers (iTools). Providing the software on both ends of the Internet offers Apple the unprecedented ability to offer services impossible to implement solely on Internet servers.

“Our new iReviews, iCards and the revolutionary iTools offer amazing new ways for Mac users to take full advantage of the Internet,” said Steve Jobs, Apple's iCEO. “Mac users can now do things on the Internet that Wintel users can only dream of.”

iTools is free to Macintosh users running the Mac OS 9 operating system, and can be accessed at Apple.com using any Internet connection. Apple's first four iTools premiere today:

- **KidSafe**, a breakthrough way to protect our kids on the Internet. KidSafe specifies what kids can see, rather than trying to filter out what they shouldn't see. KidSafe downloads a software module into the computer's operating system, which then verifies that each requested web destination is KidSafe by checking with Apple's KidSafe server. Apple's server contains over 50,000 KidSafe sites, with over 10,000 new sites being added per month. All KidSafe sites are approved by certified teachers and librarians. KidSafe can also disable Internet email, chat sites and games;

- **Mac.com**, an email service run by Apple. Mac.com gives users an exclusive

address on the Internet and works with standard POP email clients, such as Outlook Express, Eudora and Netscape Communicator. Mac.com users can easily set up automatic replies and forwarding of their email to other email addresses, and configure Outlook Express for their Mac.com mailbox from a simple web page;

- **iDisk**, 20 megabytes of personal Internet-based storage on Apple's Internet Servers. iDisk is an entirely new way to store, transfer and share files over the Internet, and it's as easy as using a folder on your Mac® desktop; and

- **HomePage**, the easiest way to build your own personal web site in less than 10 minutes and host it on Apple's Internet servers. Your personal web site can include electronic photo albums, iMovies™, resumes, announcements, etc., and you can update it as often as you like. HomePage sites are created and managed from an easy-to-use web page, and can easily incorporate materials such as photos and iMovies which have been copied onto the author's iDisk.

“In addition to being an educator, I'm also a parent, and KidSafe is a very simple and straightforward way to protect both students and my kids from inappropriate web sites,” said Jeff Anderson, director of Information Services and Technology for Deer Valley Unified School District in Glendale, AZ. “KidSafe allows you to put the computer back in your child's room without having to worry about what web sites they have access to.”

“A very compelling aspect of KidSafe in education is that it provides teacher-level control of the Internet sites that their students have access to,” said Roger Hoyer, associate superintendent of Technology, New Haven Unified School District in Union City, CA. “There is a tremendous amount of administration schools have to do in order to provide Internet access to

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## Apple Unveils OS X

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Linux-like, featuring the same Free BSD Unix support and open-source model. Darwin brings an entirely new foundation to the Mac OS, offering Mac users true memory protection for higher reliability, preemptive multitasking for smoother operation among multiple applications and fully Internet-standard TCP/IP networking. As a result, Mac OS X is the most reliable and robust Apple operating system ever.

Gentle Migration Apple has designed Mac OS X to enable a gentle migration for its customers and developers from their current installed base of Macintosh operating systems. Mac OS X can run most of the over 13,000 existing Macintosh applications without modification. However, to take full advantage of Mac OS X's new features, developers must "tune-up" their applications to use "Carbon", the updated version of APIs (Application Program Interfaces) used to program Macintosh computers. Apple expects most of the popular Macintosh applications to be available in "Carbonized" versions this summer.

Developer Support Apple today also announced that more than 100 leading developers have pledged their support for the new operating system, including Adobe, Agfa, Connectix, id, Macromedia, Metrowerks, Microsoft, Palm Computing, Quark, SPSS and Wolfram.

Mac OS X will be rolled out over a 12 month period. Macintosh developers have already received two pre-releases of the software, and they will receive another pre-release later this month—the first to incorporate Aqua. Developers will receive the final "beta" pre-release this spring. Mac OS X will go on sale as a shrink-wrapped software product this summer, and will be pre-loaded as the standard operating system on all Macintosh computers beginning in early 2001. Mac OS X is designed to run on all Apple Macintosh computers using PowerPC G3 and G4 processor chips, and requires a minimum of 64 MB of memory.

The following industry-leading developers today announced strong support of Mac® OS X, Apple's next generation Macintosh operating system.

"Adobe is fully committed to supporting the Mac OS X platform," said Bruce Chizen, executive vice president of Worldwide Products and Marketing for Adobe Systems. "Apple's high performance Mac OS X coupled with Adobe's award-winning web authoring and print publishing applications gives our Macintosh customers a premier desktop platform."

"id is all about games and making very cool environments for players to explore," said Graeme Devine, lead game designer at id Software. "Mac OS X offers id an environment to play games at their full potential, and its robustness and lineage will provide what looks like the best environment to create these games as well."

"As a longtime Apple partner, Macromedia is excited to support Mac OS X as a key platform for creating groundbreaking web experiences using Macromedia software," said Kevin Lynch, senior vice president and general manager of Macromedia's Web Publishing Division. "We already have a working prototype of the Macromedia Flash Player on Mac OS X and look forward to the release."

"Microsoft is excited that we will be providing Mac OS X-compatible applications," said Kevin Browne, acting general manager of Microsoft's Mac Business Unit. "We're focused on bringing great products to the millions of Microsoft customers that use a Macintosh."

"Palm Computing, Inc. provides innovative technology that allows people to get instant access to the key personal and professional information they need, anywhere, any time," said Mark Bercow, vice president of Strategic Alliances and Platform Development, Palm Computing. "We support the Mac OS X technology and are working closely with Apple to develop Mac OS X-compatible applications for our hand-held devices."

"Quark develops standards-based publishing technologies that keep its customers on the leading edge," said Richard Jones, Desktop Division president at Quark. "Quark is taking advantage of the incredible graphics capabilities provided by Mac OS X to provide powerful design options to its commercial publishing, graphic arts, and Internet publishing customers."

By Chris Breen

# MacWorld Tips

## Spam Avoidance

### *Intermediate*

It seems that it's more and more common these days for websites to ask for your name and email address when you pay these sites a visit. Generally inquiries come when you download software updates or demos. Before filling out these forms you might wish to take these precautions:

On most of these pages you'll see a statement that indicates you'd like to hear more from these sites in the future. This statement is invariably accompanied by a checked check box. If you'd rather not receive unsolicited messages, uncheck this box.

If you're not sure you can remember to uncheck this box and know that you never, ever want to receive follow-up messages, lie. Yup, fill in a name and email address that are not your own. To avoid sending this material to another unsuspecting user, try to make up an outlandish email address—something such as NoSpam@nospam.com.

## Multi-Users for Multi-Printers

### *Intermediate*

Under Mac OS 9's Multiple Users, you can't designate a printer for a user's use unless that printer appears on the desktop. If you'd like to allow access to non-desktop printers, either grant access to All Printers or allow users access to the Chooser.

## AppleCD Audio Player Shortcuts

### *Intermediate*

You may have become so accustomed to mousing around within the AppleCD Audio Player that you've neglected to notice that you can use the keyboard to control many of this player's functions. For example:

Use the Up and Down arrow keys to adjust volume. Use the Right and Left arrow keys to move between tracks.

Command-Left Arrow rewinds. Command-Right Arrow fast-forwards. The Space Bar stops and starts the player. Pressing the Tab key allows you to enter text in the highlighted field. Press Tab again to move to the next field.

## CD-R Errors

### *Intermediate*

If Santa brought you a USB-compatible CD-R burner for your USB-equipped Mac, you may experience underrun errors when burning CDs at higher speeds—4x for example. If you experience such errors, do your best to widen available bandwidth to the burner by connecting the burner directly to the Mac's USB port rather than to a USB hub or the USB port found on the Mac's keyboard. If that doesn't cure those burner blues, try disconnecting other USB devices (except the keyboard and mouse, of course).

## Arena Cheaters

### *Beginner*

Rumor has it that Activision will have the Mac version of Quake III: Arena fully debugged and ready for release by the time you read this. If this turns out to be true you may want to have these cheats on hand:

To gain all levels at Skill 1, bring down the console (by pressing the Tilde key), type "iamacheater" (without the quotes) and press the Return key.

To gain all levels at Skill 100, bring down the console, type "iamamonkey" (again, sans quotes), and press the Return key.

Whether you really are a cheater or monkey is between you and your conscience.

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## Members Whose Dues are Due

<u>NAME</u>	<u>EXPIRATION DATE</u>
Jim Grimes . . . . .	11/27/99
Jim Nesbitt . . . . .	12/06/99
Bob Sheairs . . . . .	11/30/99

## Apple Introduces AppleWorks 6 Delivers More than 100 New Features and a Stunning New User Interface

In another MacWorld surprise, Apple introduced AppleWorks 6, its latest version of the AppleWorks/ClarisWorks/Appleworks chameleon, adding more than 100 features and a stunning new user interface to its award-winning productivity application.

AppleWorks 6 is an integrated word processing, spreadsheet, database and presentation application. New features include: an easy-to-use presentation environment where users can quickly create multimedia slides that integrate text, tables and digital elements such as QuickTime™ movies and iMovies™; more than 150 professionally designed templates; 50 new fonts; and built-in Internet content capabilities that allow users to access more than 25,000 high-quality clip-art images.

"AppleWorks 6 makes it simple to create professional-looking documents from

the classroom or the living room," said Phil Schiller, Apple's vice president of Worldwide Product Marketing. "A new user interface and easy-to-use presentation environment make AppleWorks 6 a must-have application."

### ***System Requirements & Pricing***

For the Mac, AppleWorks 6 requires an Apple computer with a PowerPC processor, at least 24 MB of physical RAM with virtual memory turned on, a CD-ROM or DVD-ROM drive and an Internet connection for accessing the online digital images. AppleWorks 6 runs on Mac® OS 8 and Mac OS 9 and is expected to be available in early February from Apple Authorized Resellers and The Apple Store™ ([www.apple.com](http://www.apple.com)) for an estimated retail price of US\$79.

Windows 95 and Windows 98 versions are expected to ship in spring 2000.

## Apple and Earthlink

*Continued from page 1*

and existing Mac customers, and new customers will get a free month of service and their setup fee will be waived.

### ***About EarthLink***

EarthLink is one of the world's leading Internet service providers, bringing the magic of the Internet to more than 1.5 million individuals and businesses every day. Headquartered in Pasadena, EarthLink provides a full range of innovative access, hosting and e-commerce solutions to thousands of communities internationally from more than 2,300 points of presence.

In September of 1999 EarthLink and MindSpring announced plans to merge in a transaction that will create the world's second largest Internet service provider. The new company will be called EarthLink and the transaction is expected to close in the first quarter of 2000. Information about EarthLink and EarthLink Sprint services is available by calling 800-395-8425 and through EarthLink's Web site at [www.earthlink.net](http://www.earthlink.net).

## iTools and KidSafe

*Continued from page 4*

their students. KidSafe is a great way to alleviate that by providing an easy way to customize what students see."

The newly redesigned Apple.com web site features iReview and iCards. iReview is the Internet's finest web site review guide, with web sites reviewed and rated by Apple. iReview currently contains over 250 reviewed and rated sites, with over 1,000 expected by summer 2000. iCards is Apple's electronic greeting card site, offering premium greetings cards that can be sent and viewed via standard email.

On the new Apple.com, iTools, iReview and iCards join the existing online Store, QuickTime™ and Support areas in a tab bar which is always at the top of every page on the site, dramatically increasing the visibility of these highly-trafficked areas.

Membership to iTools is free to Macintosh users running Mac OS 9. iReview and iCards are free to all computer users. iTools, iReview and iCards are available at Apple's web site at [www.apple.com](http://www.apple.com) via any Internet connection.

# Apple Unveils New iBook, PowerBook and Power Mac G4 Lines

## New Graphite iBook Special Edition Leads Lineup Mac OS X to Include Highest-Quality Japanese Fonts

In a keynote presentation at MacWorld Tokyo, Apple today unveiled new iBook, PowerBook and Power Mac G4 lines, and announced that the forthcoming Mac OS X operating system will include the highest-quality Japanese fonts available.

The new iBook line builds upon the success of the most popular consumer portable on the market\* and includes the debut of iBook Special Edition. Featuring double the memory and hard drive size, all three new iBook models come standard with 64MB of memory and a 6GB hard drive. iBook Special Edition features a faster 366 MHz PowerPC G3 processor and, like iMac® DV Special Edition, comes in a stunning Graphite-color enclosure.

PowerBook, Apple's incredibly successful portable for creative professionals, is now the fastest portable ever\*\*. Powered by PowerPC G3 processors running at up to 500 MHz, PowerBook features up to 10 hours of battery life\*\*\* and two built-in FireWire ports, which let users easily transfer pro-quality digital video with DV camcorders or external hard drives. With Apple's Final Cut Pro 1.2 software installed, the new PowerBook is a complete pro-quality mobile video editing system.

Apple also announced it has increased the performance of its industry-leading Power Mac G4 line with faster processors running at 400-, 450-, and 500 MHz. The Power Mac G4, which features the PowerPC G4 processor with its remarkable Velocity Engine, runs professional applications like Adobe Photoshop over 50 percent faster than 800 MHz Pentium III-based PCs\*\*\*\*.

All the new hardware products support Apple's revolutionary AirPort wireless networking solution which provides totally untethered Internet access at speeds of up to 11 megabits per second. Apple's AirPort solution includes the

AirPort Card, which fits easily inside iBook, PowerBook and the Power Mac G4, and the AirPort Base Station, which contains a 56K modem and a 10BASE-T Ethernet port for connecting to a phone line, cable modem, DSL modem or local area network.

The new iBook, PowerBook and Power Mac G4 products are available immediately via The Apple Store™ (www.apple.com) and through Apple Authorized Resellers.

In addition to the significant hardware announcements, Apple today also announced that its forthcoming Mac OS X will include the highest-quality Japanese fonts available and the largest character set ever on personal computers, through an agreement with Dainippon Screen Manufacturing Co., Ltd., the premier font developer in Japan. The fonts, made up of 17,000 characters in each of six typefaces, will let all Mac OS X users—from publishing professionals to first-time users—easily create the highest-quality documents in Japanese, both on screen and in print.

Mac OS X is a completely new implementation of the Macintosh operating system, featuring state-of-the-art technology throughout, including an entirely new user interface called "Aqua." Mac OS X is designed to make computing even easier for consumers while simultaneously extending the functionality for professional users.

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\*According to PC Data's Portables Hardware Tracking Service (October-December 1999).

\*\*Based on 16 actions in Adobe Photoshop 5.5 when running on battery and AC power.

\*\*\*Up to 10 hours using the system's dual-battery capability.

\*\*\*\*Based on select tests published by Intel to demonstrate the speed of the 800 MHz Pentium III processor.

From the WWW

# DVDead? What? Already?

by Adam Duracz

Well isn't this typical, the DVD format is just starting to root itself on the market, and something just totally better comes along. The good ole' CD-ROM standard stores around 650 (a little bit more in some cases) megabytes on a disc. This is enough for most purposes, such as music, programs or demonstrations, but when you start dealing with high-quality multimedia, such as very high-definition audio, high resolution video or really large games, the CD-ROM is a rather cramping medium.

The DVD is better. Storing up to 17GB per disc (double layered, double sided DVD's), this medium is more than enough to store a full-length flick, stored in MPEG-2, with several separate audio tracks for different languages, commentaries etc.

So why look for something that could store more? The answer is obvious. We're never satisfied with what we've got. The next generation of movie discs will probably store video in much higher resolutions than the ones we use today. Maybe the video will be uncompressed, and we will positively have audio tracks with 8/9-point surround, instead of 4/5-point, like we have today. With what I've mentioned, we're already looking at over 40GB of data, which would require the use of more than one DVD per disc, a larger DVD disc format (sized like a LaserDisc) or simply another solution.

Enter the FMD-ROM. The FMD-ROM disc planned for release has 10(!) layers, compared to a maximum of 2 for a CD, and maximum of 4 for a DVD. What's even scarier about the disc, which is of the same size as a CD or DVD, is that it can store up to a massive 140GB! That's more than 7 times what a DVD can store, and without having to turn the disc! With 140 GB of storage capacity, you could fit over 20 hours of HDTV

(MPEG-2 compressed) video, a small library or the contents of your entire CD collection, uncompressed, on a single 120mm disc! Now some about how it really works. CD-ROM's and DVD-ROM's store data in a way that is embarrassingly similar to Thomas Edison's old gramophone records. Instead of using a needle, though, they use a laser that is emitted onto a surface which is covered with pits or dots that put the laser wave out of phase with the emitted beam. An in-phase beam means a '0', while an out-of-phase beam means '1'. While this is a perfectly functional solution for a two-dimensional surface, like the surface of a

CD or DVD disc, problems start occurring when you try to project the laser through several layers. Beams tend to go out of phase, and so what should have been a '1' becomes a '0', which makes the information pretty useless. When developing the FMD, Constellation 3D, the company that created the standard, decided to rethink the whole matter.

Instead of using pits or dots to store information, they used the fact that a special kind of plastic becomes fluorescent (emits photons / electromagnetic waves) when energized by a laser.

C3D also abandoned the concept of in-phase laser beams to read information. Instead, the light from the fluorescent 'pits' can be of a completely different frequency than the laser, which eliminates interference, and therefore also makes the use of multiple layers possible.

Because of the multi-layered fashion of the FMD disks, another interesting feature knocks on the door: fast transfer speeds. According to C3D, FMD disk readers could reach transfer speeds of up to (OMG!) 1 Gigabit per second. Please, read that again, because that's more than two times faster than any hard drive around today (ANY), and 10 times faster than any DVD-ROM drive on the market.

**The FMD-ROM disc planned for release has 10(!) layers, compared to a maximum of 2 for a CD, and maximum of 4 for a DVD. What's even scarier about the disc, which is of the same size as a CD or DVD, is that it can store up to a massive 140GB!**

# Wow!—This one is tough even for native speakers!

*from long-time member of MUGSNJ, George Vail*

Once you've learned to correctly pronounce every word in the following poem, you will be speaking English better than 90% of the native English speakers in the world. If you find it tough going, do not despair, you are not alone: Multi-national personnel at North Atlantic Treaty Organization (NATO) headquarters near Paris found English to be an easy language...until they tried to pronounce it. To help them discard an array of accents, the verses below were devised. After trying them, a Frenchman said he'd prefer six months at hard labor to reading six lines aloud. Try them yourself.

Dearest creature in creation, study English pronunciation. I will teach you in my verse sounds like corpse, corps, horse, and worse.

I will keep you, Suzy, busy, make your head with heat grow dizzy. Tear in eye, your dress will tear. So shall I! Oh hear my prayer.

Just compare heart, beard, and heard,

Dies and diet, lord and word, sword and sward, retain and Britain. (Mind the latter, how it's written.)

Now I surely will not plague you with such words as plaque and ague. But be careful how you speak:

Say break and steak, but bleak and streak; Cloven, oven, how and low,

Script, receipt, show, poem, and toe.

Hear me say, devoid of trickery, daughter, laughter, and Terpsichore, Typhoid, measles, topsails, aisles, exiles, similes, and reviles; Scholar, vicar, and cigar, solar, mica, war and far; One, anemone, Balmoral, kitchen, lichen, laundry, laurel; Gertrude, German, wind and mind, scene, Melpomene, mankind.

Billet does not rhyme with ballet, bouquet, wallet, mallet, chalet. Blood and flood are not like food, nor is mould like should and would. Viscous, viscount, load and broad, toward, to forward, to reward. And your pronunciation's OK when you correctly say croquet, Rounded, wounded, grieve and sieve, friend and fiend, alive and live.

Ivy, privy, famous; clamour and enamour rhyme with hammer. River, rival, tomb, bomb, comb, doll and roll and some and home. Stranger does not rhyme with anger, neither does devour with clangour. Souls but foul, haunt but aunt, font, front, wont, want, grand, and grant,

Shoes, goes, does.

Now first say finger, and then singer, ginger, linger, Real, zeal, mauve, gauze, gouge and gauge, Marriage, foliage, mirage, and age.

Query does not rhyme with very, nor does fury sound like bury. Dost, lost, post and doth, cloth, loth.

Job, nob, bosom, transom, oath.

Though the differences seem little, we say actual but victual. Refer does not rhyme with deafer.

Foeffer does, and zephyr, heifer.

Mint, pint, senate and sedate; dull, bull, and George ate late.

Scenic, Arabic, Pacific, science, conscience, scientific. Liberty, library, heave and heaven, rachel, ache, moustache, eleven. We say hallowed, but allowed, people, leopard, towed, but vowed. Mark the differences, moreover, between mover, cover, clover; Leeches, breeches, wise, precise, chalice, but police and lice; Camel, constable, unstable, principle, disciple, label.

Petal, panel, and canal, wait, surprise, plait, promise, pal. Worm and storm, chaise, chaos, chair, senator, spectator, mayor. Tour, but our and succour, four.

Gas, alas, and Arkansas.

Sea, idea, Korea, area, psalm, Maria, but malaria. Youth, south, southern, cleanse and clean. Doctrine, turpentine, marine.

Compare alien with Italian, dandelion and battalion. Sally with ally, yea, ye, eye, I, ay, aye, why, and key. Say aver, but ever, fever, neither, leisure, skein, deceiver. Heron, granary, canary.

Crevice and device and aerie.

Face, but preface, not efface.

Phlegm, phlegmatic, ass, glass, bass.

Large, but target, gin, give, verging,

Ought, out, joust and scour, scouring. Ear, but earn and wear and tear do not rhyme with here but ere. Seven is right, but so is even, hyphen, roughen, nephew Stephen, Monkey, donkey, Turk and jerk, ask, grasp, wasp, and cork and work.

Pronunciation—think of Psyche!

Is a paling stout and spikey?

Won't it make you lose your wits, writing groats and saying grits? It's a dark abyss or tunnel:

Strewn with stones, stowed, solace, gunwale, Islington and Isle of Wight, housewife, verdict and indict.

Finally, which rhymes with enough—

Though, through, plough, or dough, or cough? Hiccough has the sound of cup.

My advice is to give up!!!

# No "Free Macs" Allowed at Freemac.com

It has been about 10 weeks since our last e-mail update, and I wanted to bring you up to speed on where things are at FreeMac.com. As you know, we originally announced our intention to distribute free Apple iMac computers.

Prior to making that announcement we had discussions with Apple Computer regarding our business, and had been encouraged to proceed. Unfortunately, Apple Computer had a change of heart and decided not to allow us to purchase Apple iMacs from them at wholesale prices.

Frankly, we were surprised by Apple's decision, but we were not discouraged. We advised them that we would still be willing to acquire iMacs by paying FULL RETAIL PRICE! And Apple Computer still said no.

They did more than say no. They prohibited their major retail accounts from selling us iMacs—even at regular retail prices! And so we've reached a point where we have to deliver what I know is some very disappointing news to many of

you. We simply aren't being allowed to purchase the iMac computers to distribute to you. Apple Computer has left us no choice here.

We are, however, moving in an exciting direction and I wanted you to be among the first to know about it. In approximately 10 days, we will be re-launching our company as NadaPC.com.

NadaPC.com will be providing a FREE Internet appliance to qualified end-users.

Soon you will have the opportunity to receive the latest type of Internet connectivity device—one that makes surfing the Web, enjoying multimedia content and sending and receiving e-mail easier than ever!

We'll be launching the NadaPC.com web site very shortly. As someone who expressed interest in receiving a free iMac, you will have the "inside track" on signing up for this exciting new Internet appliance first. We'll give you an e-mail heads-up when it's time to register. And the good news is that with so many different Internet appliance manufacturers in the marketplace, this time we know that we'll be able to deliver.

Finally, I'd like to thank you for your incredible patience. We never imagined that we would have to change direction like this—and we were willing to go to any lengths to stay on track—even paying the full retail price to acquire enough Apple iMac computers to distribute to you.

But we're anxious to launch NadaPC.com and we're even more anxious to have you be a part of it all.

Regards,  
Jonathan Strum  
Founder & CEO  
FreeMac.com

P.S.—Below you will find the story that ran last week at CNET.com. It explains exactly what transpired between FreeMac and Apple:

<http://home.cnet.com/category/0-1006-200-1540302.html>

## Job Opportunity: Macintosh Technician/Trainee

My name is Shane Whilden and I am the Computer/Network technician at Eastern Regional High Schools in Voorhees. I am looking for an assistant to help with computer related duties on our campus. We currently host about 500 computers (99% Mac) and we have a need for someone to work 10-20 hours per week. I did similar work while I was in college and the experience worked out well for me. The hours are flexible.

Interested parties can contact Raymond Chojnacki at [chojnacki@eastern.k12.nj.us](mailto:chojnacki@eastern.k12.nj.us)

*Ed. Note: Shane is a former member of MUGSNJ. He holds a Bachelor's degree in Computer Science and will be an excellent mentor/co-worker.*



# Membership Application

- |   |  |
|---|--|
| <input type="checkbox"/> Regular (\$20) | <input type="checkbox"/> Student/Collegiate (\$15) |
| <input type="checkbox"/> Senior (\$15)  | <input type="checkbox"/> Corporate/Institutional*  |
| <input type="checkbox"/> Renewal        | <input type="checkbox"/> GCC Student (Free)        |

Name \_\_\_\_\_ Date \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_ Fax \_\_\_\_\_

Employer \_\_\_\_\_ Position \_\_\_\_\_

Employer Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_ Fax \_\_\_\_\_

Send mailings to:  Home Address  Employer Address

How did you learn about MUGSNJ? \_\_\_\_\_

At which user level would you classify yourself?  Beginner  Intermediate  Advanced

Computers owned \_\_\_\_\_ Computers used \_\_\_\_\_

Current OS \_\_\_\_\_ Other software experience \_\_\_\_\_

Special interests:  Desktop Publishing  Communications  Other \_\_\_\_\_

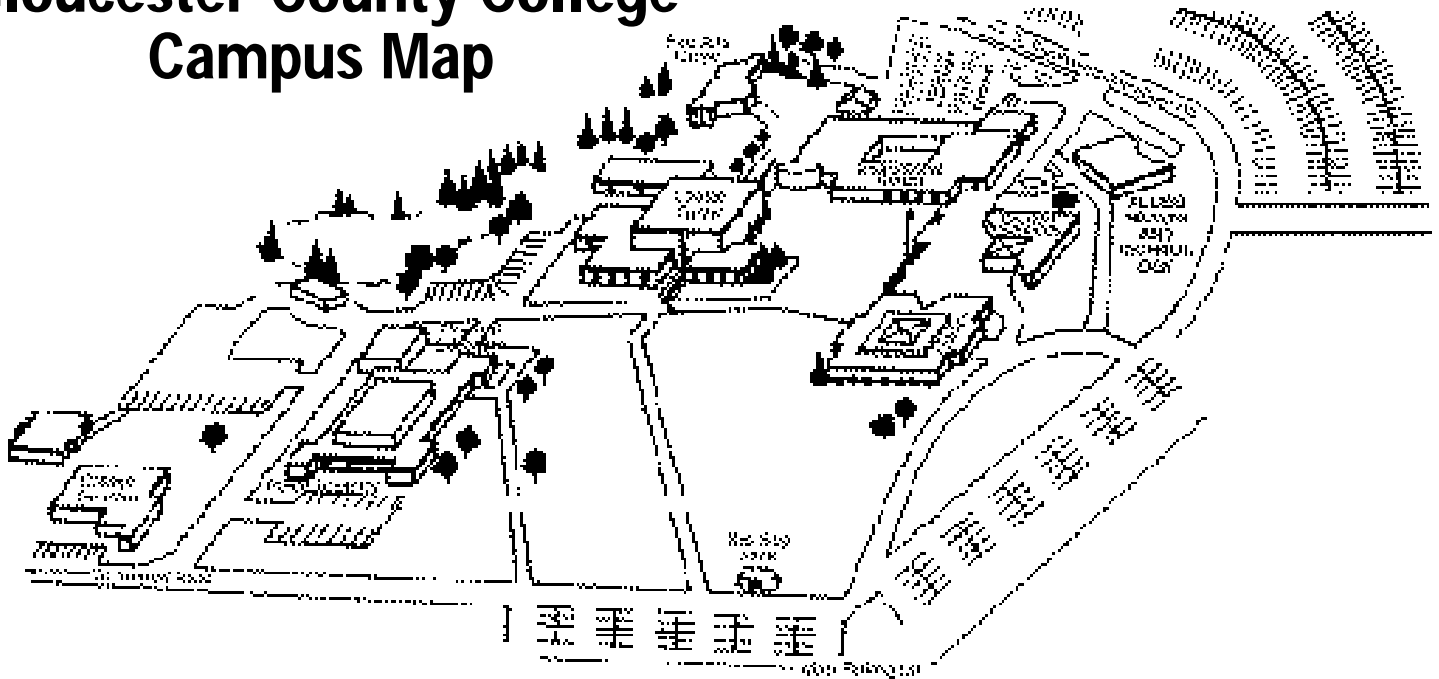
I'll help with these positions:  Membership  Newsletter  Program  Hospitality

## MEMBERSHIP BENEFITS

- Hardware and software telephone assistance
- Info on the latest software and upgrades
- Subscription to "MUGSHOTS"
- Notices of Macintosh events
- Meet great people!

**\*NOTE:** Corporate/Institutional memberships are granted by approval of the Executive Committee of MUGSNJ, and are based on the number of memberships requested by the corporation/institution as well as its non-profit status.

# Gloucester County College Campus Map



MUG General Meetings are held in the Auditorium, Room 500, of the Allied Health and Technology Building at 7:30 pm on the last Wednesday of each month. In the event the last Wednesday precedes a holiday, the meeting is held a week earlier. Executive Committee Meetings are held on the first Wednesday at 7:30 pm in the Lounge adjacent to Room 502.

## MugShots

**JAN/FEB., 2000**

Mac Users Group of Southern New Jersey  
Gloucester County College  
Liberal Arts Department  
1400 Tanyard Road  
Sewell, NJ 08080-9518  
Phone: 856-468-5000 ext. 6445

**NEXT GENERAL MEETING**

**WEDNESDAY,  
MARCH 29, 2000  
7:30 P.M.**

**BE THERE OR MISS OUT!**