

MugShots

Volume XI

Issue #10

OCTOBER, 2003

1,100 Macs Together

Thinking Different, Saving Money

By Michelle Delio

FASTER THAN A PC? Perhaps. More stylish, certainly. Easier to work with, absolutely. But cheaper?

Macs are rarely, if ever, touted as the least-expensive computing option, particularly in comparison to the ultimate cost-cutter, Linux. But the creators of the world's fastest Mac supercomputer insist they opted for Apple because Macs provided significant price and performance benefits over hardware running Linux or any other Unix-based solution.

Faculty and students at the Virginia Polytechnic Institute and State University's Terascale Computing Facility connected 1,100 2-GHz dual-processor Power Mac G5 machines to build their supercomputer, which they hope will soon be the first Mac-based system ranked among the world's fastest computers.

Mac supercomputer clusters are mostly uncharted territory, so the Virginia Tech team had to blaze some paths, converting cluster software usually used on Linux machines and figuring out ways to adapt existing hardware to their Mac monster computer.

"It's a total turnaround," said Peter Dowling, a Manhattan-based Mac networking consultant. "Usually you assume that you'll pay a premium for Apple machines, but they will be easier to set up and work with. But in this case it seems that the Macs were cheap, but challenging."

Then again, supercomputer creation is never a simple process, according to Jason Lockhart, associate director of Virginia Tech's Terascale Computing Facility.

"There is nothing easy about building a supercomputer, especially one that is home-built from commodity parts," said Lockhart. "It's a laborious and painful process that requires a great deal of stamina and a tremendous amount of patience."

The Virginia Tech team admits they probably would have had an easier time building a Linux cluster, due to the wide availability of Linux-based cluster software solutions.

The team had built several Linux clusters before they started work on the Mac cluster. Dr. Srinidhi Varadarajan, director of the Virginia Tech Terascale Computing Facility, has also developed software to make Linux clusters run more reliably and efficiently.

Cluster supercomputers link multiple single computers into one hopefully cohesive whole, a process that requires some tinkering and specialized software to ensure that the machines work together efficiently. The vast majority of the available cluster software is not intended for use on Macs since there are few, if any, Mac supercomputer clusters.

Varadarajan said all the code he wrote for Virginia Tech's Linux-based clusters was moved over to the Mac OS X computers with relative ease.

"Obviously, there have been some challenges, as we have had to port a lot of the Linux code used to make a cluster a cluster — specifically the MPI communication libraries — but the porting process progressed very rapidly," said Varadarajan.

MPI — Message Passing Interface — allows nodes in a cluster to communicate with each other.

It took seven months to get the Mac supercomputer up and running. But despite what Virginia Tech team members agree was often a rough development ride, the most difficult problem they faced was choosing the computing platform for their cluster.

Virginia Tech had some specific guidelines for their supercomputer project — they wanted the best performance possible for the price and they wanted a 64-bit microprocessor platform.

In the early stages of the project that meant they only had four choices: Intel Itanium2, AMD Opteron, SGI MIPS and Sun UltraSparc.

"When we considered system price and total number of nodes along with the cost of the interconnect, none of the four fit our budget," Lockhart said. "Then in mid-June, when we

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6	7	8
9	10	11	12 Executive Committee Meeting 8 P.M. AHT Lounge	13	14	15
16	17	18	19 GENERAL MEETING 7:30 P.M. GCC AHT RM. 500	20	21	22
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30						

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Secretary's Corner

On October 22nd, at 8:00 five members of the Executive Committee met in the Lounge. The following MUGSNJ business took place:

President Walt Vennell discussed the possibility of our group receiving "Breen's Bungalow" a monthly CD that is included with MacWorld when bought at newsstands.

We received a TIFF of our MUGSNJ logo and will order our Golf Shirts as soon as we find out which members are interested in receiving one and what sizes we will have to order. There will be a nominal charge for paid-up members with the balance subsidized by their dues. The shirts will be light blue with a dark blue and burgundy logo. We will check to see if we can mix colors as a request for tan shirts was received. We will poll the group at our next meeting.

Room 711 is not appropriate for our meetings so Joan and Walt have secured room 503 for future meetings. Joan will try to secure the Fine Arts Auditorium for our Genealogy program on November 19th as we expect a large turnout.

Secretary, Me, will send out publicity on AnnaMarie's Genealogy program to newspapers.

We are receiving more books for review, and continue to ask for a member to volunteer as Librarian. Now that we have secured room 503 we can purchase a locked cabinet so I don't have to haul books back and forth each month.

Treasurer Mary Ann Vennell was not present but sent a report. With all bills paid (MUGShot copies, refreshments, etc.) we have a balance of \$205.00 in our Petty Cash fund as of 10/22/03. Our College Account has a balance of \$1,104.05 this does not include an additional \$30.00 in checks recently deposited. We have received \$90.00 in additional checks for dues to be deposited and an additional \$35.00 for our Petty Cash fund.

Webmasters, Bob Buell and Stan Horwitz, will be responsible for keeping our Web Page up-to-date. Carole will send meeting reminders and additional info such as reviews.

Membership, Me again, we have received dues for 18 memberships for a total of 20 members (2 family memberships). We expect additional dues from over 20 additional regular members. We have 7 honorary members including our two student reps Jason and Regina.

Newsletter Editor Nate Gable continues to request information from members for MUGShots. As many other MUGs charge members for copies of their newsletters, MUGSNJ

members receive theirs. Nate forwards ours FREE each month.

Additional discussions included the Disney jacket, which was put on hold over the Summer. Nate has a friend who will allow us to put it on her e-Bay site. Walt will follow through on this.

Joan will reserve a bus for the MacWorld Expo in Boston next July. It will leave the college parking lot on Wednesday at 5:00pm and leave Boston on Friday afternoon. She will also reserve rooms at a Motel 10 minutes from the Expo site. Those wishing to attend will have a five-month payment plan. The trip will be arranged through her Hospitality Club and will be open to area MUGs and those wishing to just spend two days in Boston. The MUGSNJ College Fund will help subsidize the costs incurred by MUGSNJ members only. MUGSNJ has a direct phone line at the college that will be monitored by Walt. He will be responsible for changing the message each month.

The meeting was adjourned at 9:00

Carole Dadino, Secretary (and temporary Librarian), MUGSNJ

From the Editor

Mugsnidge Mutterings

Yo, Carole, a bit long-winded this month, are we? Well, never let it be said that the editor of this newsletter is not a gentleman, willing to share bed, board and newsletter space with a fellow User



Group officer. And never let it be said that there's nuthin' goin' on in the Macintosh Users Group of Southern New Jersey. Just look at all the stuff in Carole's corner. she has literally pushed this editor right out of his special niche.

He apologizes for the abbreviated news in this issue, but, face it, folks, the months between Autumn and the December holidays don't have a lot goin' on except for sales. And yup, Apple has cut some prices pretty drastically and goosed up the iBook with a G4 processor just in time for you to pick up that iBook or PowerBook or iMac from the Mac User Group Store, or wherever else you can find a deal.

So read Carole's article carefully so you\, too, will know what's goin' on.

Members On Line

SITES WORTH THE SURF

Frank Petrie, MaMUGs etc

Mac News

Macintosh News Network
<www.macnn.com>
MacSurfer Headline News
<www.macsurfer.com>
MacInTouch <www.macintouch.com>
MacCentral <maccentral.macworld.com>
AppleAudio.com <www.appleaudio.com>

Help and Information

MacFixIt <www.macfixit.com>
Apple Forums <www.apple.com/support>
Leoville <leoville.com>
MacNN Forums <forums.macnn.com>
MUGSNJ Message Board
<www.mugsnj.org/links.html>
Rich Levin's BBS
<bbs.rblevin.net:8080/~rblevin>

Books

Peachpit Books <www.peachpit.com>
O'Reilly Press <.oreilly.com>
Pogue's Pages <www.poguepress.com>
Barnes & Noble.com <www.bn.com>
Amazon.com <www.amazon.com>

Hardware

The Apple Store <www.apple.com>
Small Dog Electronics <www.smalldog.com>
OWC <www.macsales.com>
MacMall <www.macmall.com>
MegaHaus <megahaus.com>
J & R <www.jandr.com>
PowerMax <www.powermax.com>

iPods

everythingipod <www.everythingipod.com>
iPod Lounge <www.ipodlounge.com>
iPodding <www.ipoding.com>
iSkin.biz <iskinbiz.wbhst.com>

Software

Konfabulator! <www.konfabulator.com>
OS X Hax <www.osxhax.com>
VersionTracker <www.versiontracker.com>
ZDNet Downloads
<downloads-zdnet.com.com>
MacUpdate <macupdate.com>
Macintosh Products Guide
<guide.apple.com/index.lasso>
Apple Software
<www.apple.com/software>

Phun

Driveways of the Rich and Famous
<www.driveways.com>
The Onion <www.theonion.com>
Dave TV
<www.cbs.com/latenight/lateshow/dave_tv>
Find A Grave <www.findagrave.com>
Northern Sun <northernsun.com>

Next Version of Apple OS X Goes on Sale

Apple Computer's latest version of its sleek and well-reviewed Mac OS X operating system went on sale on Friday and the computer maker staged special events at 65 of its retail stores to promote it.

Dubbed "Panther," version 10.3 is the third major release of OS X since its debut in March 2001 and goes on sale at 8 p.m. EDT, at stores and on Apple's online store.

It costs \$129 for a single-user license. A "Panther" family license, for a single residence and up to five users, will cost \$199, said Cupertino, California-based Apple.

The latest version has 150 new features, including a new Finder that gives one-mouse-click access to a user's favorite files and folders, what Apple calls Exposé. It also has a new way to instantly see all open windows. Different users also have the ability to sign on immediately while leaving untouched a first user's applications and open files.

Mac OS X version 10.3 also comes with Apple's iChat AV, a desktop video conferencing application for business, education and consumers, Apple said.

Earlier this week, Apple cut prices on its line of eMac computers that are aimed at the education market. They now start at \$1,099, down from \$1,299, including a drive that lets users burn their own CDs and DVDs. Models with out that drive start at \$799, down from \$999.

The company also unveiled its latest round of notebook computers, the iBook, which now have PowerPC G4 processors, an upgrade from the G3 chips. Those notebooks start at \$1,099 with a 12-inch display, and \$1,299 for a 14-inch display.

Last week Apple unveiled the Windows version of its popular iTunes digital music jukebox software, with Apple's online music store integrated into the platform. Apple said on Monday that Windows computer users had downloaded 1 million copies of the program and sold more than 1 million songs at a cost of 99 cents each.

eTIPS

Automatically Updating Your iPod with iTunes

Your iPod will synchronize with only one iTunes Library. Choosing "Automatically update all songs and playlists" in iPod Preferences tells iTunes to check whether the iPod "belongs" to the Music Library. If not, you'll see an error message. If so, iTunes will erase the current iPod library and copy your iTunes Library and all your playlists to the iPod.

You can also update only selected playlists on your iPod; in iPod Preferences, just choose "Automatically update selected playlists only" and check the boxes next to the playlists you want updated automatically.

In either Automatic case, songs deleted from the iTunes Library will also be removed from the iPod on the next synchronization. The same holds true for playlists. If you don't want these songs removed, choose "Manually manage songs and playlists" in iPod Preferences. Also keep in mind

that if your iPod can hold only so much data, so if your iTunes Library holds more songs than your iPod can hold, iTunes will tell you when your iPod has no more space and will stop copying files.

Re-encoding MP3s — Not a Great Idea

In iTunes (or any MP3 encoder, for that matter), be aware that you cannot improve the quality of an existing MP3 by converting it to a higher bit rate. Any data that was lost in the original encoding is still lost. All re-encoding to a higher bit rate will do is make the file size larger. Similarly, re-encoding as AIFF will not improve the quality, but it will allow you to use the song in programs that require AIFF files.

For more on encoding MP3s with iTunes, pick up *iLife Bible* [<http://www.dummies.com/WileyCDA/DummiesTitle/productCd-0764541722.html>], by Bob LeVitus and Dennis Cohen.

1,100 MACS TOGETHER

(Continued from front page)

thought we had exhausted all of our options, Apple announced their G5 CPU.”

Lockhart estimates the hardware cost \$5.2 million, a reasonable price, he said, for a supercomputer that the team hopes will soon be ranked among the fastest in the world.

The G5s feature dual CPUs, effectively providing 2,200 2-GHz processors in 1,100 machines, which means less space is needed to house the assembled supercomputer. Factor in Apple's generous discounts for its education customers, and Mac bested the offerings from Dell, Sun and Hewlett-Packard.

Virginia Tech, struggling with a \$72 million cut in state funding this year, recruited students to unpack and set up the close to 20 tons of computer hardware, racks and routers that their new supercomputer comprises.

“We went round and round for several months trying to nail down a computer platform that would meet our needs and our budget. There were many tense moments early on,” said Kevin Shinpaugh, associate director of operations for the Virginia Polytechnic Institute and State University's Terascale Computing Facility.

“But once the choice was made and the wheels set in motion, everyone — from the contractors who have done the facilities upgrades to the volunteers who helped us build racks, put machines into the racks and cable this beast — has gotten behind the project and really given a tremendous amount of effort to make this happen on time,” Shinpaugh said.

The team is scrambling to get the supercomputer up and running by Oct. 1, the deadline for submitting supercomputers for inclusion in the Top500 project's new list of the world's fastest supercomputers.

The Top500 project tracks advancements in high-performance computing. Twice a year, Top500 releases a list of the 500 most powerful computer systems in the world. The current list includes no Mac systems.

“It has been a wild roller-coaster ride, but things have begun to settle down,” said Lockhart.

The Mac supercomputer will run Apple's Mac OS X operating system. The team worked closely with Apple and Mellanox Technologies, a vendor of cluster-connection hardware, to develop drivers and port additional software required for the project.

Linux can run on Mac hardware, but given everything else that needed to be done to get the supercomputer up and running, it just seemed easier to stick with the Mac operating system.

The Mac cluster software developed by the

Virginia Tech team is open-source and will be offered for free after the project is complete.

Virginia Tech's cluster will be running primarily custom-built scientific applications written in the C/C++ and Fortran 77/90/95 programming languages. These applications will also be reworked so that they can run efficiently on the Mac cluster.

The team will begin testing applications on the cluster in mid-November. Inclusion in the Top500 list doesn't require the system to be ready for daily use; the system simply needs to be able to run a standard set of supercomputer performance benchmarks.

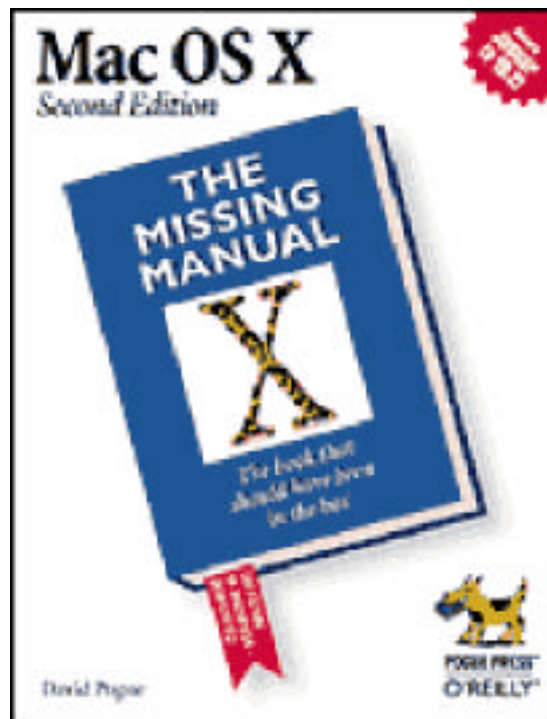
The cluster team will provide a group of researchers whom they are currently calling the “hero users” — brave beta testers — with application code in late November or early December.

The team expects that some applications will require nothing more than a simple recompile to be able to run on the Mac cluster, while others will need some fairly intense reworking.

“But we have no doubt that everyone will eventually be able to take full advantage of the new cluster,” Lockhart said.

The Virginia Tech Mac supercomputer should be fully functional and in use by January 2004.

It will be used for research into nanoscale electronics, quantum chemistry, computational chemistry, aerodynamics, molecular statics, computational acoustics and the molecular modeling of proteins.



Book Review

Mac OS X: The Missing Manual

Review by Stan Horwitz

stan@temple.edu

When I was asked to write a review of David Pogue's *Mac OS X: The Missing Manual* Second Edition (2002, Pogue Press/O'Reilly) for the Macintosh User Group of Southern New Jersey's monthly newsletter, I was told that I would have to return it so it could be included in our library. That seemed reasonable at the time, although now, I wish I could keep my copy. Perhaps my desire to keep this book has been driving my procrastination at finishing writing this review! As it turns out, David Pogue's book is a real keeper. I will miss not having this book around after I return it to the user group's library.

David Pogue has included a compendium of information about Jaguar, which is Apple's code name for its Mac OS X 10.2 operating system. This book includes all the essential information that anyone who is new to the Mac and/or OS X 10.2 needs in order to learn the fundamentals of how to use the operating system. In addition, *Mac OS X: The Missing Manual* also includes a wealth of information for intermediate and advanced Mac OS X 10.2 users.

As a result of the great amount of detail and many diagrams, this book is huge at 690 pages. Fortunately, a detailed index to various topics and sub-topics is included in the. Many computer books seem to lack an index, but not this one. Although it is common for computer books to include a CD-ROM, this book does not. On the other hand, this book offers readers access to a web site at <http://www.missingmanuals.com> where you can download the files that would have been in the CD-ROM disc if it was included.

As a result of reading this book, I have learned a lot, which is quite an accomplishment considering that I have been a Mac since OS 6.8 and I consider myself to be an expert Mac user. Mac OS X is an operating system that I eagerly anticipated when I first heard that Apple was developing it because I am also a long-time Unix user and system administrator. My experience with various flavors of Unix and most versions of Microsoft Windows helps me appreciate why Mac OS X is the most sophisticated and user-friendly operating system to run on personal computers. My appreciation of the potential that Mac OS X brings to the computer world seems to also be shared by Pogue.

Pogue's book offers something for every level of Mac OS X user, from the extreme novice to the

long-time user. Pogue covers all the basics such as the Finder, the various screen elements, how to manage files, networking, printing, Sherlock, and keyboard short-cuts. Some of the intermediate topics in the book include how to set up a firewall, burning CD-ROM discs and DVDs, and image capture. Pogue also briefly covers the iLife apps such as iTunes, iMovie, and iPhoto. What also impressed me is that Pogue included information about advanced topics such as a comparison between iPhoto and Apple's older image capture utility and he even has a full chapter devoted to Apple Script (see Chapter 7).

So would I recommend the *Mac OS X 10.2 users* rush out and buy "*Mac OS X: The Missing Manual*?" That depends. As many of you probably already know, Apple is hard and fast at work on the next generation of Mac OS X. Although no specific release date has been announced by Apple, I have heard from several knowledgeable people that Panther will be released by the end of this year; only three months from now. Panther is Apple's code name for Mac OS X 10.3 which is its next version of Mac OS X. Based on information I have read about Panther and a demonstration I saw of a test version recently, Panther will offer many new features that are not available in Jaguar, including major changes in the way windows and files are managed. The reason why I am mentioning this information now is that Panther will obsolete a substantial part of Jaguar. As a result, those of you who intend to upgrade to Panther as soon as it is available might not benefit from this book. If you are running Jaguar now and you have no plans to upgrade to Panther when it comes out, you should consider buying this book because it will provide you with a wealth of helpful information. Those of you who intend on moving to Panther as soon as it is available should probably not buy this book and instead wait for David Pogue's updated edition for Panther, which is due out in December. If Apple was not nearly ready to start selling Panther, I would whole heartedly recommend David Pogue's Jaguar book for all Mac OS X users.

Mac OS X, *The Missing Manual* can be ordered from O'Reilly Press at missingmanuals.com. MUG members receive a 20% discount.

Apple's Latest 0.1 Adds a Lot

By **DAVID POGUE**

THE REPUTATION OF THE PERSONAL COMPUTER has taken a horrible hit this year. Viruses have made headlines week after week. Spam now exceeds 50 percent of all e-mail. Hackers and academics have uncovered one Windows security hole after another, turning Microsoft into a frantic little Dutch boy at the dike without enough fingers. If the computer industry were a celebrity, it would hire an image consultant.

Correction: The Windows computer industry would hire one. Macintosh fans, on the other hand, have watched the tribulations of the much larger Windows population with mixed feelings - sympathy, relief, even amusement - because their operating system, Mac OS X, is so far 100 percent virus-free. And because Mac OS X comes with less of its plumbing exposed to the Internet than Windows, hackers are a far more distant worry.

This is a big week for Apple. Last week the company unveiled the Windows version of its popular, free iTunes music-downloading software - and tomorrow, it will release Mac OS X version 10.3 (or Panther), the next edition of Apple's three-year-old operating system.

That decimal-point increase (from version 10.2 to 10.3) doesn't give the upgrade's 150 new features enough credit. Then again, Apple's not the only company to have trouble with naming schemes. What's the logic in the sequence of Windows versions - 95, 98, Me, XP?

In any case, Apple has lost no time in exploiting the public's fears of computer insecurity. For example, a new feature called FileVault can encrypt your entire "Home folder" - files, Web bookmarks, e-mail and all - and then decode them automatically and invisibly when you log in. If, say, your laptop is stolen, your sensitive stuff is secure and safe. (FileVault uses an encoding scheme so thorough, Apple says, that a password-guessing computer would need 149 trillion years to break it. Just enough time for Apple to reach Mac OS X 11.)

Mac OS X can also sign you out of your account automatically after a certain period so that evildoers can't root through your folders when you've wandered off to get some coffee. And a new Secure Empty Trash command doesn't just delete files; it actually overwrites their parking places on the hard drive with invisible gibberish. If you wind up selling your Mac on eBay someday, no data-recovery snoop will be able to resurrect your lost works.

The anti-spam controls have been beefed up, too. Mac OS X Mail can screen out all messages except what comes from recent correspondents and people in your address book. It

also auto-blocks junk-mail graphics that, when opened, report back to the spammer that the message has landed safely at a working e-mail address.

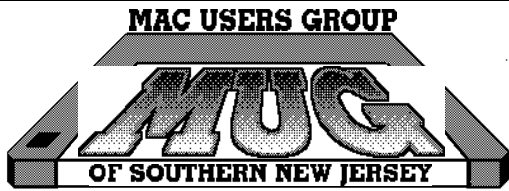
Each of Panther's brushed-metal windows displays the Sidebar, a clever navigation-shortcut panel at the left side where you can drag the icons of favorite disks, folders, files and programs. In effect, the Sidebar lets you fold up your desktop so that any two icons appear side-by-side, no matter how far apart they actually are in your folder hierarchy.

In terms of pure productivity power, Panther's most important perk is a new anti-window-clutter feature called Exposé. When you press a certain keystroke (of your choosing), all windows in all programs visibly shrink and array themselves across the screen like non-overlapping tiles. You just click the one you want to bring it forward at full size. This visual method of plucking a window from a haystack is so brilliant and addictive, you'll wind up using it dozens of times a day. Exposé is the biggest graphical breakthrough that operating systems have achieved in years.

Some of Panther's "new" features are actually old ones resurrected from Mac OS versions of years past. For example, you can categorize files and folders by slapping color-coded labels onto them - "Back Me Up" or "Final Drafts," for example - making it simple to search or sort them en masse. The Schedule dialogue box saves electricity and time by shutting down the Mac automatically each night, and turning it on just in time to greet you each morning.

A number of Panther's new features originated in Windows. (Apple to Microsoft: "Two can play this game.") For example, you can now turn files or folders into compressed Zip files right on the desktop. Pressing Command-Tab to cycle between open programs now summons a floating row of software icons, much as Alt-Tab does in Windows. Faxing is, for the first time, a built-in Mac feature. You can have incoming faxes automatically printed out, saved into a folder, sent to yourself by e-mail, or any combination of those.

Finally, Panther offers Fast User Switching, modeled on the identical feature in Windows XP. If you're working at the Mac when a relative or co-worker wants to check e-mail or a calendar, you no longer have to quit your programs and log out. Instead, your entire world of work remains open but shifts into the background, ready to spring forward again when your fellow account holder is finished. A stunning animation livens up the switching moment: your world appears to rotate out of view as the new account swings onto the screen.



Membership Application

- | | | |
|---|---|--|
| <input type="checkbox"/> Regular (\$20) | <input type="checkbox"/> GCC Staff (\$10) | <input type="checkbox"/> Student/Collegiate (\$10) |
| <input type="checkbox"/> Family (\$25) | <input type="checkbox"/> Renewal (\$____) | <input type="checkbox"/> GCC Student (Free) |
| <input type="checkbox"/> Senior (\$15) | | <input type="checkbox"/> Corporate/Institutional* |

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 Pub./Graphics Video Communications Beginner Mtgs.

Other _____

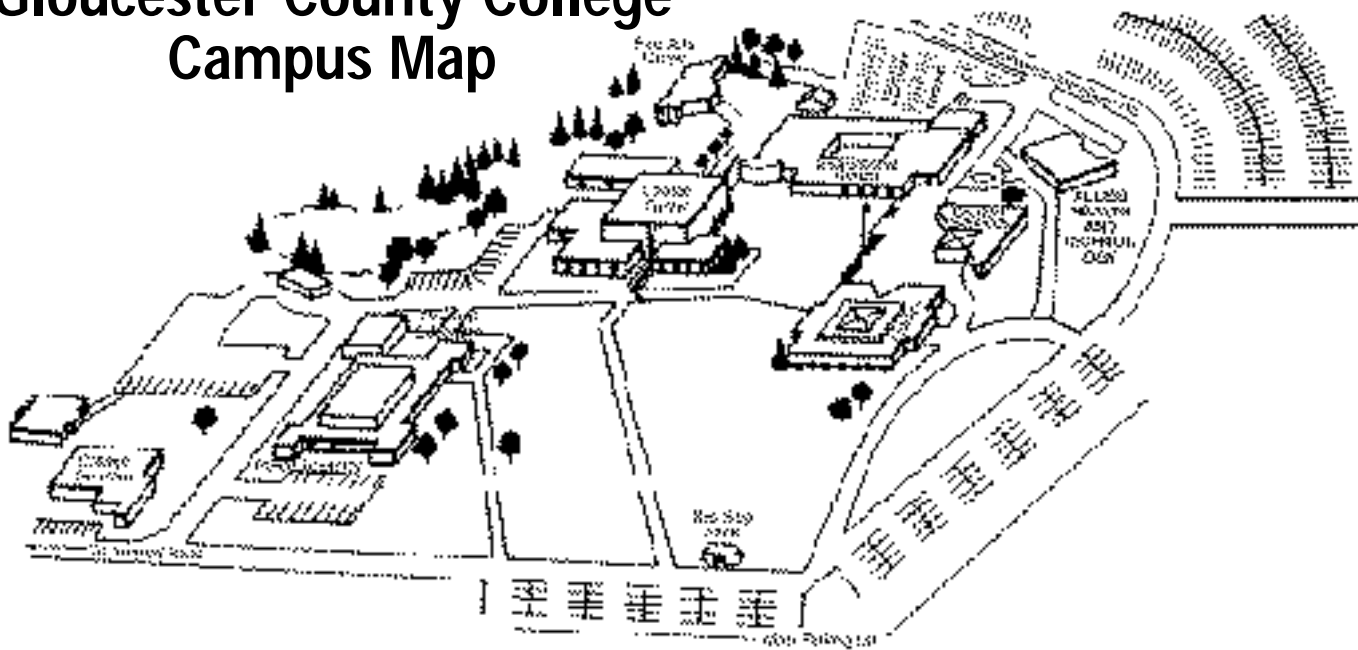
I'll help with these positions: Membership Newsletter Program Hospitality

MEMBERSHIP BENEFITS

- Hardware and software assistance
- Info on the latest software and upgrades
- "MUGSHOTS" newsletter available at meetings
- Notices of Macintosh events
- Special interest groups (SIGs)
- 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

OCTOBER, 2003

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

NEXT GENERAL MEETING:

**WEDNESDAY,
November 19, 7:30 P.M.**

Topic: Genealogy

BE THERE OR MISS OUT!