

WASHINGTON APPLE PI



Volume 26, Number 2

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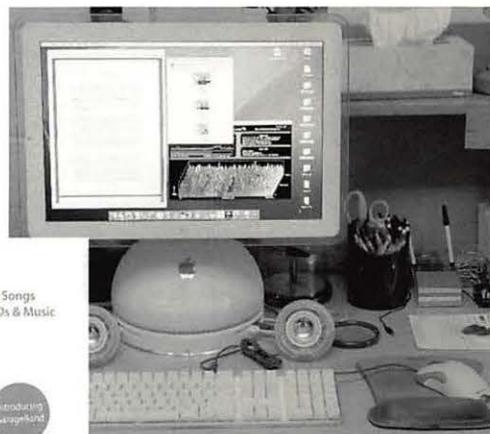
Washington Apple Pi Bylaws—81



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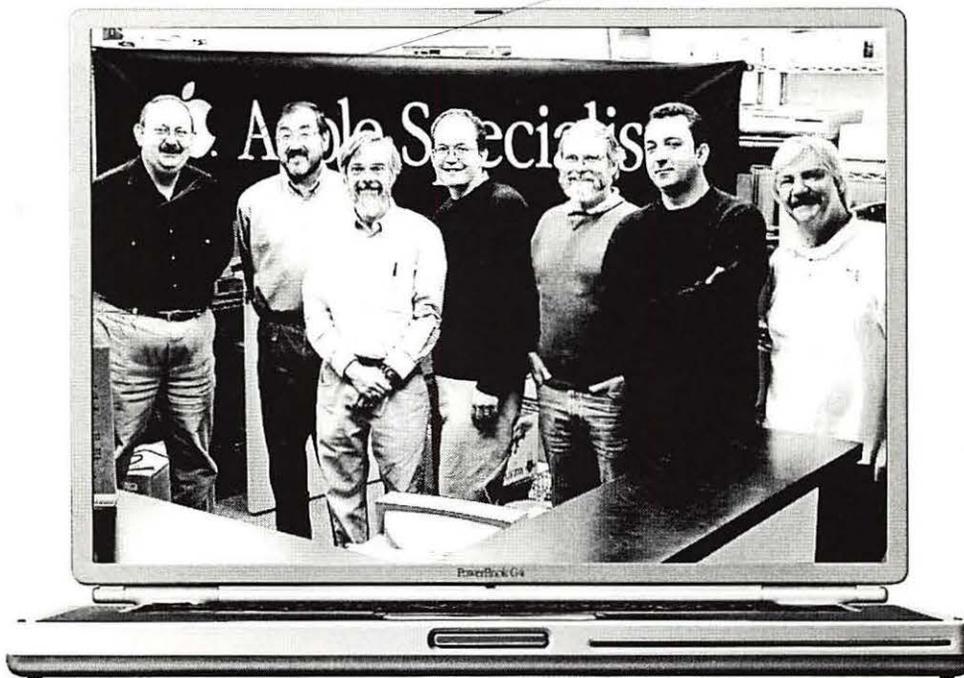
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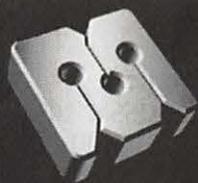
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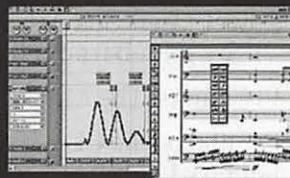
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March / April 2004

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Editorial Staff

Managing Editor

Kathryn Murray 804/ 333-0536
KAM129@aol.com

Review Editor/Macintosh Editor

Lawrence Charters 410 / 730-4658
lcharters@tcs.wap.org

Tutorials Editor

Pat Fauquet patf@mac.com

Apple II Editor

Seth Mize 410 / 766-1154

Calendar Editor

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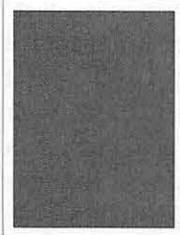
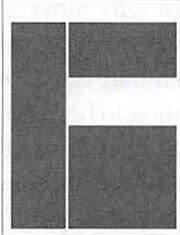
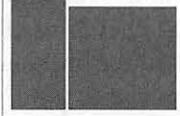
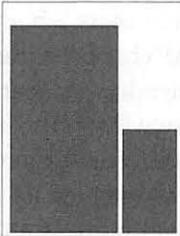


This issue of the Washington Apple Pi Journal was created on a G3, with proofing on an HP LaserJet 5000 N.

The page layout program used was PageMaker 6.5 the word processing program was Microsoft Word 5.1; the principal typeface is Palatino (10/12) for the articles; and Avant Garde Demi for headlines, subheads, and emphasis. Charlemagne Bold for drop caps.

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SIG Chairs

Annapolis Slice

Website <http://www.annapolisappleslice.org>

President Tony Murphymurf79@comcast.net
 Vice President Jeff Straightjstra_2000@yahoo.com
 Secretary JoeAnn L. Kuhn jalkuhn@aol.com
 Treasurer David Illig david@davidillig.com
 Treasurer/Membership: Albert Gomezplata agomezplata@riva.net
 Librarian Michael Harfordmzharford@riva.net
 Webmast/Program Chairman Ted Martens
 tsmartens@annapolisappleslice.org

AOL SIG

John Barnes (301) 652-0667
 JDBarnes@aol.com

Apple IIGS

Lorin Evans
 lorin.evans@wap.org

Art SIG

Joe Morey (703) 281-5385

Columbia Slice

Website <http://www.wap.org/columbia/>

Contacts:

Tom Cook tom.cook@wap.org 410-995-0352
 Henry Yee henry.yee@wap.org (410) 964-3706

Database SIG

volunteer needed

DisabledSIG

Jay Thal (202) 244-3649
 jay.thal@wap.org

Excel SIG

Dick Byrd (703) 978-3440

Final Cut Pro

Abba Shapiro
 Abba@DigitalVideoDC.com

Frederick Slice

Website: <http://www.frederickapple.com>

President Dick O'Connor rjoconnor@adelphia.net
 Sec./Treas. Bob Esposito bobesposito@mac.com
 Webmaster/VP Dick Grosbier dgrosbier@starpower.net
 Past President Bob Esposito bobesposito@mac.com
 Newsletter Editor Greg Esposito bobkiwi@mac.com

Genealogy SIG

Volunteer needed

Graphic Arts SIG

Lila Bednar (703) 456-1886
 lila.bednar@wap.org

iMovie SIG

Hal Cauthen (703) 323-8934
 chrgrhorse@aol.com

Mac Programmers

volunteer needed

Music SIG

Ed Moser (301) 924-1573

Newton SIG

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NOVA Educators SIG

Pat Fauquet (703) 550-7423
 email: fauquet@erols.com

ProSIG

John Barnes (301) 652-0667
 JDBarnes@aol.com

QuickTime SIG

Stuart Bonwit (301) 598-2510
 email: sbonwit@wap.org

Retired SIG

John Barnes (301) 652-0667
 JDBarnes@aol.com

StockSIG

Morris Pelham morris.pelham@wap.org

Teen SIG

Three SIG

David Ottalini (301) 681-6136
 dave.ottalini@wap.org

Officers and Board of Directors

President — Pat Fauquet — president@wap.org
VP, Membership — Lila Bednar — vpmembership@wap.org
VP, Programs — Hal Cauthen — vpprograms@wap.org
VP, Publicity — Dave Ottalini — vppublicity@wap.org
VP, Volunteers — Steve Roberson — vpvolunteers@wap.org
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Directors

John Barnes — john.barnes@wap.org
Herb Block — herbertb@Capaccess.org
Gene Haddon — gbhaddon@mac.com
David Harris — david.harris@wap.org
Jim Little — dukeow@aol.com
Nancy Little — nancylittle@mac.com
Grant Peacock — grantpeacock@mac.com
Jim Ritz — jim.ritz@wap.org

Volunteers

Telecom Sysop — Lou Dunham — lou.dunham@wap.org
Webmaster — Lawrence Charters — webmaster@wap.org
Mac Editor, Review Editor — Lawrence Charters — maceditor@wap.org
Tuesday Night Clinic — Jim Ritz — jim.ritz@wap.org
Calendar Editor — David Harris — david.harris@wap.org
Tutorial Coordinator — Pat Fauquet — tutorials@wap.org

Washington Apple Pi, Ltd.

12022 Parklawn Drive, Rockville, MD 20852
Business Office: (301) 984-0300
TCS: 2400 bps (301) 984-4066
14,400 bps (301) 984-4070
Web address: www.wap.org
e-mail address: office@wap.org

Office hours: Mon., Wed., Fri. 10 am-3pm
Tues. 7-9 pm—Clinic Night Only—
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When weather is bad, call to check if office is open.

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Welcome To WAP

ONE OF THE things we long-time members of Washington Apple Pi ask ourselves is, why do we keep renewing our membership every year? It's an excellent question because the reason WAP was started more than 25 years ago really doesn't exist anymore. Back in the late 1970s, folks who purchased Apples and other "personal computers" needed to know a lot more about how and why they worked. These folks were hobbyists who really wanted to get down and dirty - to fully understand what made this amazing package of electronics work.



That's not why most of you are members today, is it? We still have members who remember the early days of the club. But even they have long since moved past the point of really wanting to figure out how their Mac (or even their Apple) works. They have, like most users today, moved on to looking at their computer as an appliance that surfs the Internet, plays music, edits videos and lets them talk electronically via email with family and friends.

Those old-timers who have continued to renew have watched WAP change as the needs and desires of its membership changed. Even that has not always been enough. We do not have the number of members we had 10 years ago. Those who are still members or folks like you, who are new members, are here for a reason. Maybe two or three. Among them, I hope, is a desire to be with other people who love the same computer you do and continue to want more from it.

Your new club offers a wide range of services from the repair clinic on Tuesday nights, to our many tutorial offerings, special interest groups and general meetings. We do this almost exclusively with volunteer help. And while we hope you'll consider donating an hour or two of your time to the cause, your support by purchasing products from <http://cafepress.com/wap> or our CDs from the WAP Store, taking a tutorial or writing an occasional article would be greatly appreciated. And don't forget to vote in the upcoming election.

Washington Apple Pi is, after all, your club, our club, my club. Together we can do great things and I hope that, as a new member, you'll join in the fun.

And by the way, Welcome To WAP! ■

President's Corner

Nominations Time

THE JANUARY Washington Apple Pi General Meeting was a watershed event for our club. It marked the completion of a long-standing project for the leadership team. You, the members voted to accept the work of the board of directors in reorganizing the leadership of the Pi by ratifying the new bylaws.

Your vote of approval means that in June you will elect fifteen members to the Board of Directors and then the board will look among themselves to select those who will serve as the President, Vice Presidents, Secretary and Treasurer. It also means that board members will serve a term that is no longer than three years. Then they will have to leave the board for at least one year before running for office again.

In the spirit of the new bylaws, several long-time board members will be leaving the board, as I will. None of us will disappear, but instead we will serve as chairmen or co-chairmen of various Pi projects and activities.

We will be opening places for you to step forward and help to run our club. For this first election under

"Now is the time to think about running for board for next year. This is the month when we are asking each of you to think about what you might like to do and the time to volunteer to run for office. You many nominate yourself by sending a note to secretary@wap.org."

the new bylaws, there will be one, two and three year terms available, but in future years, most board vacancies will be for three year terms.

Three years may seem like a long time, but as our newest board members have found, the first year you serve on the board is really one of learning your way around, learning about the history and traditions of the Pi and gaining "corporate knowledge." The second year will be a time to take on larger jobs, and the third year will be when board members take on the biggest jobs such as President.

This new election and leadership process should give us the best of both worlds--continuing leadership with many opportunities for our members to become involved in shaping the programs and offerings of the Pi.



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Although we are a large group with many programs and activities, even the president does not have to do everything. I have not been to a Tuesday Night Clinic in almost a year. While I have attended the Garage Sale and done my assigned jobs, I have not been a part of the organizing group for the past year. Although I write several articles for the Journal, I do not have anything to do with its actual production. I have not authored a web page or fixed a computer for the Reclamation Project. Although I have answered quite a few phone calls, I have not manned the front desk.

Washington Apple Pi is such a large group that no one is expected to do it all. We have lots of people doing lots of things, but the Pi does not need to take up all of your time if you choose to help run our club.

Now is the time to think about running for board for next year. This is the month when we are asking each of you to think about what you might like to do and the time to volunteer to run for office. You may nominate yourself by sending a note to secretary@wap.org.

At the February meeting we will ask for nominations. We will be passing out slips of paper for you to nominate yourself or to nominate others. Our election committee will then contact each person to determine who will be on the ballot.

The actual election will be done electronically for the first time this year. There will be a web page where you will submit your vote. Even though we are a computer club, we recognize that a few members may not have access to the web. There will be a process for those people to request a paper ballot, but we encourage everyone to try to vote electronically.

I have enjoyed serving as your president for the past two years. I will be leaving the board in June, but I will continue to teach tutorials and if appointed by the new board, I hope to continue to serve as the Tutorials Chairman. I am really looking forward to the new Pi year and I hope that you share my excitement and that you will consider joining the Pi leadership team. ■

*Pat Fauquet
President, Washington Apple Pi*



A portion of the audience at the January 24th General meeting. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)

Election Time is Approaching

IN THIS YEAR of elections, a very important one will be taking place during May at Washington Apple Pi. It will be our first web-enabled election, our first election under the new club bylaws and it will be the first time that our members will only be voting for Director positions. Our new President, Vice Presidents, Secretary and Treasurer will be elected from within the Board of Directors at their June board meeting.

Club members will be voting for five candidates from three sets or "Classes" of candidates. One candidate class will include members who are running for a three year term. Another candidate class will include those running for a two year term and the final candidate class will include those who are running for a one year term.

In future years, we will be voting for five candidates who are running for a three year term and there will possibly be candidates who are running to complete the terms of office for positions that have been vacated.

The next issue of the Journal will be our election issue. It will include candidate and financial disclosure statements from the members who will be running for office. It will also contain the web address to go to in order to vote. It will not contain a paper ballot or an envelope to use to mail the missing ballot.

The present election method was adopted when an earlier method no longer worked. It was adopted to meet the needs of the club at that time. Unfortunately, our members never really bought into the system. In a club with many members, less than 10% voted in a typical election. Including perforated ballots and inserted envelopes is an expensive proposition when it yields so few votes.

Our club bulletin board, the TCS is available to all our members. Each of you received a login and password when you joined the Pi. We will be using the authentication technology behind the TCS to enable web

"Voting for our new officers should be quick and easy for those who have recently used the TCS and those of you who have not used it have two months to get ready for the process. We will demonstrate how to obtain your login and password during every General Meeting until the election is over."

voting. Since the modernization of the TCS, over 500 of you have visited it at least once. For those of you who have not used the TCS, the procedure to find out your login and password will be among the topics covered at our March General meeting.

Voting for our new officers should be quick and easy for those who have recently used the TCS and those of you who have not used it have two months to get ready for the process. We will demonstrate how to obtain your login and password during every General Meeting until the election is over.

There will be a procedure to obtain a paper ballot for members who do not have a way to access the Internet, but we are strongly encouraging everyone to use the web voting process.

It is time for a web voting process for Washington Apple Pi! We are, after all, a technology club! Please read the next issue of the Journal carefully and then participate in this exciting, new process!

WASHINGTON APPLE PI VOTES ON THE WEB! ■

BoD Minutes of 10 December meeting

PRESIDENT Pat Fauquet called the meeting to order at 7:58 pm.

Also present were:

John Barnes (VP/Programs)

Herb Block (Director)

Craig Contardi (Secretary)

Lou Dunham (TCS Committee Chair)

Jim Little (Director)

Nancy Little (Director)

David Ottalini (VP/Publicity)

Jim Ritz (Director)

Steven Roberson (VP/Volunteers)

Dick Sanderson (Treasurer)

Jon Thomason (TCS Chief Architect)

(Ned Langston would arrive later, at approximately 8:30 p.m.)

The minutes from the November Board meeting were reviewed, amended and approved as changed.

Treasurer's Report: Dues and tutorial revenues are lower than the same time last year, that latter adversely impacted by the lateness of the most recent Journal. The purchase of the CD/DVD burner by the club was charged against this past month, but the delay in bringing the Pi Journals to print meant no associated printing cost for the corresponding period.

Garage Sale: Final administrative matters were ironed out, including a review of the work of the VP/Publicity in support of the event (He bought a 3-day ad in the Washington Post [for \$200]). Ned Langston mentioned a need for a random-number generator for the hourly raffles, since the classic application had been somehow lost to history. Steve Roberson and the Programming SIG agreed to take on the task.

Office Staff: Bob Mulligan would like to handoff some of his workload to another volunteer.

Facilities: Nancy Little reported that the vacuum cleaner for the office needs a new belt.

Bylaws Revisions: Posted on the web for review by the board.

Pi Fillings: The most recent edition featured various Apple Updates, which are legal for distribution with

the exception of Operating System numbered revisions (e.g. 10.2.8). Future editions will include a CD of web browsers and one focusing on Audio/Video/Print&Photo tools/tips.

Web Page: Nothing to report

Budget: The mid-year review is coming up soon.

Membership Database: Awaiting additional RAM and spare time on the part of the volunteer engineer.

SIGs/Slices: The Riderwood Senior Center information session conducted by John Barnes had 20 attendees. John suggested revisiting the matter in a few months.

The iMovie SIG is beginning to be transformed into a Digital Video club with diminishing ties to the Pi. If we attempt to "reground" we stand the risk of a group mutiny and will need to recruit a new "sparkplug" to replace Hal.

Marie Wray was mentioned as a person who might be willing to start something iMovie-centric on the MD side of the river.

The Retired and Power User SIGs have become mostly forums for Q&A and not formal presentations.

Publicity: Dave Ottalini reported that vendors were very generous with giveaway prizes for the garage sale. Switching hats to that of Apple /// guru,

Dave said that the person who is buying up the entire Disketeria has offered to convert it all to CDs and transfer distribution rights back to us in exchange for a discount on the cost of purchasing the library disks. The board authorized Dave to handle the matter any way he felt was in the best interests of the Pi and it's role as custodian of classic pre-Macintosh hardware and software. The diskettes in our library are in jeopardy of experiencing "data rot" and transferring them to another media will buy more time.

Tuesday Night Clinic: Jim Ritz reported the clinic brought in between \$600 and \$700 the prior night.

New Member Orientation: John Barnes believes there needs to be more volunteers conducting these sessions, and that attendance should be more than just 3-5 members.

[Redacted]

Tutorials: Pat has just rewritten the class offerings for 2004 and we will see the new catalog in the Jan/Feb Journal.

Pat moved that the board meeting be held on the third Wednesday of January (21st) instead of the usual second (14th). The motion was seconded and approved. The meeting was adjourned at approximately 10:20 p.m.

■

January 2004 General Meeting

© 2004 John Barnes
Pi Vice President for Programs

WASHINGTON APPLE Pi's general meeting on January 24th had a full agenda. The meeting took place in the Forum of the Northern Virginia Community College's Ernst Cultural Center. This smaller venue put the 120 attendees in a somewhat more intimate setting than that offered in the larger theater. Barring changes in the NoVA schedule, almost all general meetings from here on out will take place in the Forum, primarily because the rent is a heck of a lot cheaper there.

First up was the Pat & John technical support discussion (Pi President Pat Fauquet and Vice President John Barnes), with generous additions from Abraham Brody. Telecommunications issues were a popular item.

The assembled multitude [janmultitude.tif] was then presented with a motion to approve the adoption of new bylaws for the Pi. This motion passed with an overwhelming majority and with essentially no discussion. This was surprising in view of the fact that a fair number of people had actually looked at the documents as posted on the Pi web site. The revised bylaws can be found at:

<http://www.wap.org/about/pibylaws0401.html>

as well as in this issue of the *Journal*.

While the Apple team was setting up for their presentation the audience was treated to a "Pi Eye" view of MacWorld San Francisco 2004. Dick Sanderson, the Pi's tireless head photographer, gave us a CD full of MacWorld images that ran as a slide show while Pat and others were talking. Pat Fauquet, John Barnes, Dick Sanderson, Craig Contardi, GeneHaddon, and Cheryl Lavoie constituted the "Official" contingent, attending the one day "User Group University" training course for MUG leaders. We encountered a number of rank and file Pi members at the show.

As the ranking member of the delegation Pat Fauquet gave an overview of MacWorld SF from her perspective. John added a short summary from the viewpoint of the novice attendee. With a full round of classroom sessions, feature presentations, prowling the exhibit area, and partying in the evening, everyone found the MacWorld experience to be exhilarating if a bit exhausting. Some members of the troupe are already planning their visits for next year.

By the time all of that was dealt with Brian Wayman and his collaborators from Apple's Reston office were ready to do their thing. Brian led off by taking the audience through the salient features of Steve Jobs' Keynote Address.

"Twenty Years of Macintosh" was the open-



Three representatives from Apple helped with the January General Meeting. From left to right: Brian Wayman, David Hale and Barrett Thompson. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)



John Barnes, left, and Pi President Pat Fauquet conducted the question and answer session while representatives from Apple set up their presentation in the background. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)

ing theme. Brian's presentation hit some of the highlights, including a remake of the iconic 1984 SuperBowl television ad. The migration statistics to Mac OS X were the next topic, with Steve pointing out that 40 percent of the installed base (or some 10 million users) are now using Panther, with 10,000 applications that run under Mac OS X. Brian's condensation of Steve's hour and a half presentation into 15 minutes for the Pi audience hit the major highlights. Pi *Journal* readers who want the full story can view the streamed video at:

<http://www.apple.com/quicktime/qtv/mwsf04/>

Brian added a short look at the Consumer Electronics Show in Las Vegas, which he and some friends visited on their way back from MacWorld. The emergence of FireWire as a flexible networking medium for multimedia environments is an interesting development in this area. Hard drives about the size of a quarter were another interesting revelation.

The upgrades to the *iLife* suite are the news that is likely to impact most of us. Everything from *iPhoto* to *iTunes*, to *iMovie*, to *iDVD* has undergone a major upgrade. A new player, *GarageBand*, has joined the suite and promises to bring new meaning to the phrase "labor-intensive editing." Brian got a little help from some of his colleagues from the Reston office [Figure 2] to demonstrate features of the new *iLife* suite.

Dave Hale demonstrated the new power of *iPhoto4*. The blazing speed with which the new version can zip

through huge libraries is impressive. The use of Rendezvous technology to share libraries on different computers is also a nice touch.

The *GarageBand* demo by Barrett Thomson took up the rest of the formal presentation. Even a person with my tin ear can see that this is a wonderful way to get into learning about music and instruments and actually building compositions. Barrett had a MIDI keyboard hooked up to the system to demonstrate how musicians could record their own loops or streams. The Apple online store has a full complement of *GarageBand* accessories. Steve Jobs pointed out in his Keynote that something like half of all households have someone in them that actually plays a musical instrument. It will be interesting to see if *GarageBand* is the right tool to bring these people into digital music.

Barrett's demo indicated that it takes quite a bit of tinkering to create a passable bit of music, but it sure looks like it could be fun for those who are so inclined. We can only ask "What will come next" into the digital lifestyle.

After thanking our friends from Apple for their very nice presentation Pat reminded the audience that the election for the new Board of Directors is drawing nigh. Names need to be submitted to Craig Contardi, the Pi secretary, by Close of Business on February 28th. You can E-mail him at: secretary@wap.org.

The traditional prize drawing yielded quite a number of happy recipients. ■

Graphic Arts SIG Meeting January 10, 2004

SATURDAY THE tenth dawned bright, sunny and bitterly cold for the Washington area. Near my home Dulles was reporting a temperature of 5 degrees F, with a wind-chill of approximately -17 degrees F. I was not overly optimistic about the number of people who'd come out on a day like this to a SIG meeting.

Arriving at MBS, I found a spot to park right outside the door, and since I was early, waited in the car. To my absolute amazement, people began to show up. On the drive I'd told myself it would be wonderful if 6-8 people came out on a day like this. The number continued to increase, and I shared the car with another long-time SIG member, chatting until one of the MBS crew arrived and let us in.

The room was set up and ready for us, so without much coaxing everyone streamed to the back room. Our first order of business was an overview of MacWorld SF, by Gavin of MBS. He'd been in the Keynote itself,

and his notes and comments were a great way for those who hadn't watched the streaming QuickTime broadcast to get up to speed. After his comments, there were a few questions and answers. By this time I counted heads and was positively amazed that twenty-four of us had braved the cold and wind to come to the first Graphic Arts SIG meeting of 2004!

Bob Everett did our featured presentation. He began with talking about color profiling for the screen, scanner, printer and the importance of working with known values when producing an image intended for printing. Bob demonstrated color correction with a photo, going over grayscales first, then each color channel, using a subject photographed with a GretagMacbeth ColorChecker card.

For those not able to attend the meeting, the ColorChecker is a checkerboard array of 24 scientifically prepared colored squares in a wide range of colors. Many of these squares represent natural objects of special interest, such as human skin, foliage and blue sky. These squares are not only the same color as their counterparts, but also reflect light the same way in all parts of the visible spectrum. Because of this unique feature, the squares will match the colors of natural objects under any illumination and with any color reproduction process. The ultimate goal of any process of photography, electronic publishing, printing or television is to

More January 2004 General Meeting photos

(Taken by Dick Rucker using a Sony DSC S70 digital camera.)



reproduce all colors perfectly. To help make meaningful judgments about color rendition, a totally non-subjective standard of comparison is needed. That is why the GretagMacbeth ColorChecker chart was developed. It provides the needed standard with which to compare, measure and analyze differences in color reproduction in various processes. (To see a picture of this card, look at: <http://www.typemaker.co.uk/products/incamera.html>)

Bob's focus is in bringing out the detail in photographs, and to that end he went on to demonstrate how he produced a large close-up print of a single coneflower where no part of the flower, from top to stem, was blurred, even though the flower was photographed at an angle. Quite literally he demonstrated that he makes a number of images, each focused on a particular area (think "slicing" a picture into horizontal segments from top to bottom and you'll have the general idea) then composites these slices together, using each slice's crisp, in-focus area and discarding the rest. His technique for doing this was with layers, doing the necessary alignment and transformation so the layers were precisely the same size (and rotation!), then using masks to allow only the detail from each segment to be seen. This sounds simple, but it isn't, and anyone who's tried to match one picture on top of another (even of the same subject) will understand. He was using six "layers" of photo to get one final flower... but the hairs on the stem of the coneflower were as detailed and crisp as the edges of the petals all around and the center nucleus as well. This was very, very impressive.

Bob also demonstrated two different methods of creating an edge vignette that would subtly draw the observer's eye to whatever you wished to focus it on. The meeting ran till 1pm, an hour longer than normal, but the amount of information was amazing! Bob had offered to do this presentation as a "thank you" to the Graphic Arts SIG, since he and his wife are relocating to Santa Fe, NM shortly. A round of applause was delivered at his conclusion, with many staying to ask questions and look at some samples of his prints. I want to say that Bob and Carol have been gracious in sharing their knowledge with the SIG, and we thank them, and will miss them.

After the meeting drew to a close a few of us adjourned to a nearby eatery and continued to talk graphics until almost 3pm! For such a cold day in January, there was more than enough warmth and sharing to go around. ■

Lila Bednar
Graphic Arts SIG chairperson

Retired Persons' SIG December 2003

SEVEN PEOPLE gathered in the Pi Classroom on December 16th for a "Smorgasbord" session. The audience members pelted the discussion leader with the usual round of questions about various computing problems. Internet service, particularly with broadband, is a continuing topic. In some cases the ISPs fail to deliver their "always on" promise, so that users must be alert to the possibility that their net connection is not live when they are trying to access their mail server or a remote web page.

"WhatRoute" (Google it) is a freeware utility program that does the same tricks that the built-in Internet Utility program does, but in a simpler manner. The explanation and download at

http://www.apple.com/downloads/macosx/internet_utilities/whatroute.html
is especially effective.

January 2004

With an announced topic of "Doing Business on the Web" the January meeting drew a full house of fourteen or so members in spite of the zero degree temperature. The starting tech problems discussion drew another round of inquiries into making one's internet connection work. Some members of the SIG evidently interpret the reluctance to switch to Panther as a statement that it is no good. Good excuses for NOT upgrading to panther include:

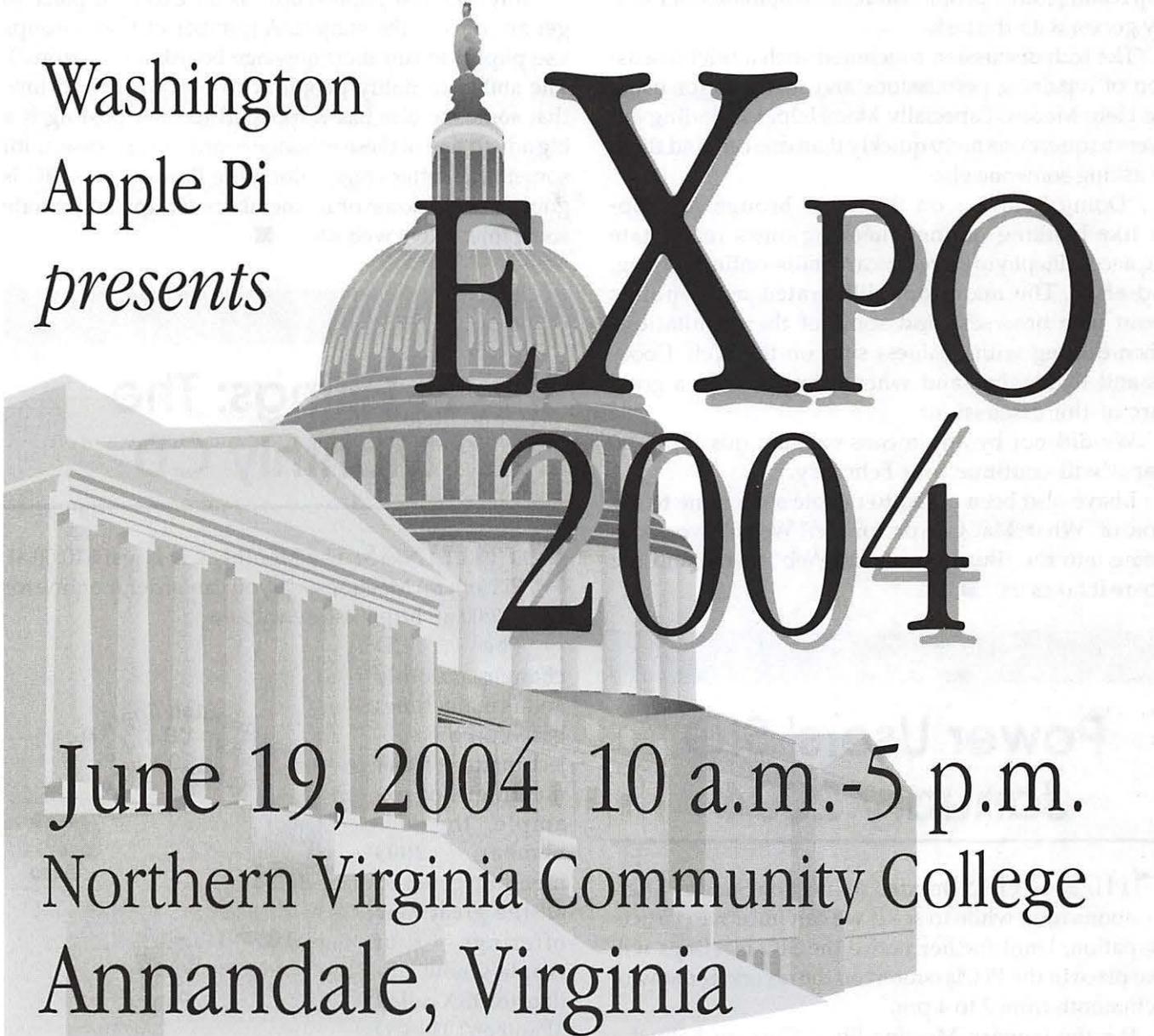
1. Running a machine that does not support it (anything less than a G3 with built-in USB).
2. Running software applications that absolutely must run on a machine that is booted into e Pre-X operating system.
3. Unwillingness to spend the money to upgrade the machine and the Operating System.

People who find themselves in one or more of the above situations should not expect any more support than they would get if they took their Edsel to a Ford dealer.

People who do have the flexibility to upgrade their hardware and software will find the move to the new

(continued page 14)

Washington
Apple Pi
presents



EXPO 2004

June 19, 2004 10 a.m.-5 p.m.
Northern Virginia Community College
Annandale, Virginia

First Annual Mid-Atlantic Mac User Group Expo

Now calling for:

Vendors
Sponsors
Demonstrations
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Contact:

Washington Apple Pi
Vice President for Programs
vpprograms@wap.org

operating system to be a rewarding experience if they stop reading other people's ill-formed opinions and simply get on with the task.

The tech discussion concluded with a brief discussion of repairing permissions and methods for using the Help Menus, Especially Mac Help, for finding answers to questions more quickly than one can find them by asking someone else.

"Doing Business on the Web" brought up topics like banking online, checking one's real estate tax account, paying credit card bills online, faxing, and eBay. The main topic illustrated many points about web browsers and some of their limitations when dealing with business sites on the Web. Cookies and their whys and wherefores took up a good part of the discussion.

We did not by any means exhaust this topic, so that it will continue into February.

I have also been asked to devote some time to the topic of "What .Mac Can do for Me." We will work this theme into the "Business on the Web" theme and see where it takes us. ■

Power Users' SIG January 2004

THE SIG HAS decided to meet on Sunday afternoons for a while to see if we can improve participation. Until further notice the SIG meetings will take place in the Pi Classroom on the second Sunday of each month from 2 to 4 pm.

For the January Meeting Sheri German helped a couple of people install php, MySQL, and phpBB onto their laptop computers. These are simple ways for folks to serve up interesting content from their own web servers. php is a scripting tool engine for managing user interactions with web sites. MySQL is one of several database servers for dishing reports and queries and phpBB is essentially a database application that is used to operate message board systems. These are Open Source products so that they are inexpensively obtained and supported.

All aspects of this set are well documented so that it is possible to do a certain amount of Power user-style self-directed study leading to development of com-

munities or e-commerce empires on the Web.

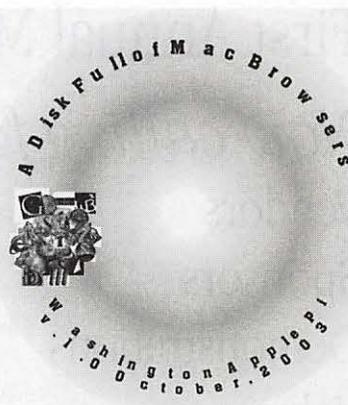
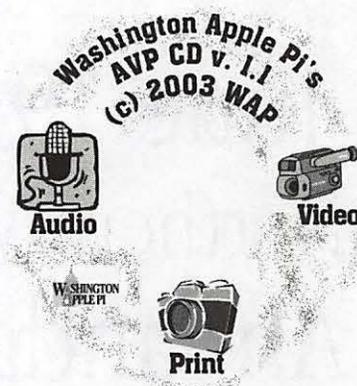
<http://www.phpbb.com/> is an excellent place to get an intro to the subject. A number of User Groups use phpBB to run their message boards (or "forums"). The ability to notify people who post to such forums that someone else has responded to their posting is a big advantage of these message boards. In any case, until something better comes along the Power Users SIG is going to help some of its members set up and operate some interactive web sites. ■

Pi Fillings: The Monthly CD

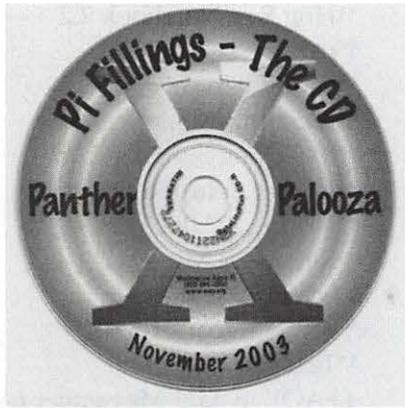
PI FILLINGS: The Monthly CD is just \$10.00 at Pi General Meetings. Or you can order it online for \$12;00 at: <http://store.wap.org>

The CD changes monthly and is many times based on the subject matter of that meeting. For example, the November, 2003 meeting covered all the great new offerings of Apple's new update to OS X called "Panther." The CD contains a lot of great information and programs that go with the new OS as well as some other wonderful stuff.

WAP has also started producing some other new CDs that you might find interesting. Our "Disk Full of Browsers"



CD has all the latest Mac browsers for classic and OS X users, as well as many legacy browsers going back to the early days of the Mac. Our AVP CD - that's Audio-Video-Photo - is for anyone interested in multimedia. A



great CD that you will use time and time again. Finally, we now offer a two disk DVD - for anyone interested in learning more about the Apple /// computer. It includes iMovies to honor a long-time Apple /// vendor - On Three and other information. A separate Apple // / CD is also in the works.

For mail orders - write the Pi Office or email to office@wap.org. You can order by phone with a credit card or send a check made out to Washington Apple Pi. Mail material to:

Washington Apple Pi
12022 Parklawn Drive,
Rockville, Maryland 20852 USA ■

Pi Fillings, the CD An overview & January's Offering

OVER THE past several years Washington Apple Pi volunteers have produced a number of CD filled with updates, and the very best of the shareware and freeware available to the Macintosh community. When the first CDs were offered for sale, few people had fast Internet connections and user groups were allowed to include Apple System software updates. Updates to programs were not made as frequently as they are today, and so we had Pi Filling pressed in lots of 1000 or more. A CD would be relatively current for several months. Today, things have changed, and in keep-

ing with the times the Pi Fillings series has also changed.

The club purchased a Primera Bravo CD/DVD burner a few months ago. This device has allowed us to produce a new CD each month with the label being printed directly on the CD. This is important because paper labels can cause problems in slot-loading CD drives.

Each Pi Fillings is filled with the latest Apple software updates (but not the System updates.) It also contains recent updates to major software programs such as Microsoft Office, printer and device drivers as well as the very best of the shareware and freeware being produced. We also include Breen's Bungalow, a video tutorial by Chris Breen of Macworld magazine. Some CDs also contain video tutorials done by Pi members and Appleworks templates for special projects. We make sure to include software both for Mac OS 9 and Mac OS X and we try to find content with will appeal to both sets of users.

We cannot say what will be on next month's CD because we have not burned it, but the list below is from the January 2004 CD. The CDs are available at the General Meeting each month and they can be obtained by ordering one with your membership renewal. We hope to have a way for you to order them online in the next few months.

As with any project undertaken by the Pi, we can always use a few more helpers. If you would like to lend a hand, please send an email to president@wap.org.

What's On the CD Pi Fillings - The CD January 2004

Apple Software * Links and Info Only

AirPort 3.0.4 for Mac OS X 10.1.5

AirPort 3.0.4 for Mac OS X 10.2

AirPort 3.1.1 for Mac OS X

AirPort 3.2 for Mac OS X 10.3

AirPort Extreme Firmware v 5.2

AirPort Extreme Mib

AppleWorks 6.2.9 Update

ARD 1.2.4 Update for Mac OS X

Battery Update

Bluetooth 1.2.1

Bluetooth Firmware Updater 1.0.2

Bluetooth Updater 1.4.1

DVD Studio Pro 2.0.2*

Final Cut Pro 4.1.1 for Mac OS X*

Final Cut Pro QT Render Plug-in

Hard Drive Update 1 for OS 9

iCal 1.5.2

iMovie Updater 3.0.3 for Mac OS X*

iPod Software 1.3.1 Updater for Mac OS X

iPod Software 2.1*

iSync 1.2 Palm Conduit
 iSync 1.3 for Mac OS X
 iTunes 4.2 for Mac OS X*
 Java 1.4.1 Update (Panther)
 Java 1.4.1 Update 1 (Jaguar) for Mac OS X
 Java 3D and Java Advanced Imaging Update
 Keynote 1.1.1*
 Mac OS X Server 10.3 Admin Tools*
 Mac OS X Server Update 10.2.8 (Combo)*
 Mac OS X Server Update 10.2.8*
 Mac OS X Server Update 10.3.1*
 Mac OS X Update (G5) v.10.2.8 (G5)*
 Mac OS X Update 10.2.8 (Build 6R73)*
 Mac OS X Update 10.2.8*
 Mac OS X Update 10.3.2*
 NetBoot for Mac OS 9*
 Power Mac G5 Firmware Update V 5.1.4
 QuickTime 6.5 Mac OS X v10.2.5-10.3.x
 QuickTime Reinstaller 6.3 for Mac OS X*
 Safari 1.0
 Security Update 2003-06-09
 Security Update 2003-07-14 v.1.0
 Security Update 2003-07-23 v.1.0
 Security Update 2003-08-14 v.1.0 (Client)
 Security Update 2003-08-14 v.1.0 (Server)
 Security Update 2003-10-28
 Security Update 2003-11-04
 Security Update 2003-11-19 for Jaguar 10.2.8
 Security Update 2003-11-19 for Panther
 Security Update 2003-12-05 (Jaguar)
 Security Update 2003-12-05 (Panther)
 Security Update 2003-12-19 (Jaguar)
 Security Update 2003-12-19 (Panther)
 Xserve RAID Admin Tools 1.2*
 Breen's Bungalow
 iChat Bungalow UG.mov
 Panther Bungalow UG.mov
 iLife04_MiniManual.pdf
 a pdf file of the iLife4: The Missing Manual Preview
 by David Pougue
 Software
 ++Mac OS 9 and X
 **Mac OS X Only
 **A Cook's Books 0.8.5.1
 **Cocktail 3.3.1
 **Dead Pixel Identifier 1.0
 **Deja Vu 2.5.2
 **DVDxDV 1.068
 **FileChute 1.5
 **FinderView 1.1
 **FunKeys X 1.01

**Hog Bay Notebook 2.2
 **iAddressX 3.1.1
 **iKey 1.0.5
 **iOrganizeX 5.3.1
 **Mah Jong Solitaire 2.25
 **Printer Setup Repair 4.0.1
 **PTMac X 2.0v23
 **Reference Miner 1.2
 **Scenario 1.01
 **ScreenRecord 1.5.4
 **Teal pp7
 ++AOL Instant Messenger (AIM) 4.7b3
 ++Apimac Note Pad 1.6.6
 ++CCN X 1.4.5
 ++File Buddy 7.5.9
 ++Make Icon 1.0
 ++MediaEdit 1.6.1b1
 ++PhotoEdit 1.3.1
 Your Mac Life Radio Show
 YML031126.mp3
 - Peter Cohen, MacCentral.com & Macworld
 magazine
 - Chris Breen, Secrets of the iPod
 - Aaron Rosenzweig, Old Fart's Guide to the
 Macintosh
 YML040121.mp3
 - Peter Cohen, MacCentral.com & Macworld
 magazine
 - Rick Smolan, America 24/7
 - Peter Kent, Conference Chair, Macworld Expo
 YML040114.mp3
 - Mike Wendland, Detroit Free press
 - Peter Kent, Conference Chair, Macworld Expo
 YML031217.mp3
 - Peter Cohen, MacCentral
 - Peter Kent, Conference Chair, Macworld Expo
 - Phil Goodman, Goodman Consulting
 - Mike Bombich, Carbon Copy Cloner
 - Toby Malina, "Sell It on eBay"
 YML031210.mp3
 The MacWorld SanFrancisco 04 Wrap-up
 - Peter Cohen, MacCentral
 YML031203.mp3
 - Peter Cohen, MacCentral
 - Andy Ihnatko, Chicago Sun-Times
 - Peter Lowe, Apple's Director, Marketing, Ap-
 plications & Services ■

Macworld Expo San Francisco 2004: The View from the Left Coast

by Bob Whitesel

THIS ANNUAL January gathering of Mac aficionados was held January 5-9, 2004, at the Moscone Center in San Francisco. Using a conference pass provided through the courtesy of a local vendor, I was able to attend on the last day, Friday, January 9, along with six other Mac folks from the Cupertino senior citizens center. Now that my wife and I are living in Cupertino, for at least the next couple of years, the 45 minute ride to the conference in a Cupertino City van seemed far less arduous than that faced by the hardy Pi folks who have boarded the busses in Julys past for the ride to Javits Center in New York.

The Moscone Center was built in the 1980s to honor the memory of George Moscone, a popular mayor of San Francisco in the mid-1970s. The conference occupied both the city-block-sized north and south buildings that comprise the center.

As I thought about going to the conference, I pondered the idea of writing a short article for the *Pi Journal*. Surely, this conference would

be similar in format to previous New York Macworld Expos. Given the excellent *Journal* writeups of previous expos, I wondered if the writing project would be worthwhile. In the end, I convinced myself that very few, if any, Pi members would ever have made the trip out here to the San Francisco conference. So, why not? Remembering some of the interesting pictures shown from past New York Expos, I charged the batteries in our digital camera, just in case.

Why not, indeed??? I wasn't in the south hall ten minutes before I stumbled into Lorin Evans! So much for the remoteness of San Francisco to the obviously peripatetic Pi members! Lorin graciously put some wind back into my writing sails. So here goes...

Apple Computer had setup a 100 or so seat theater in the center of the south building. Tutorials were running continuously from 10 am until 4 pm everyday. Adobe, Microsoft and several other software vendors ran tutorials on their software in nearby, somewhat smaller theaters. The Apple theater was surrounded by chest-high "counters" lined with all sizes of PowerBooks and countless iMacs, all with 20 inch flat screens. Apple staff members in black turtlenecks were there to demonstrate features and answer questions. During the

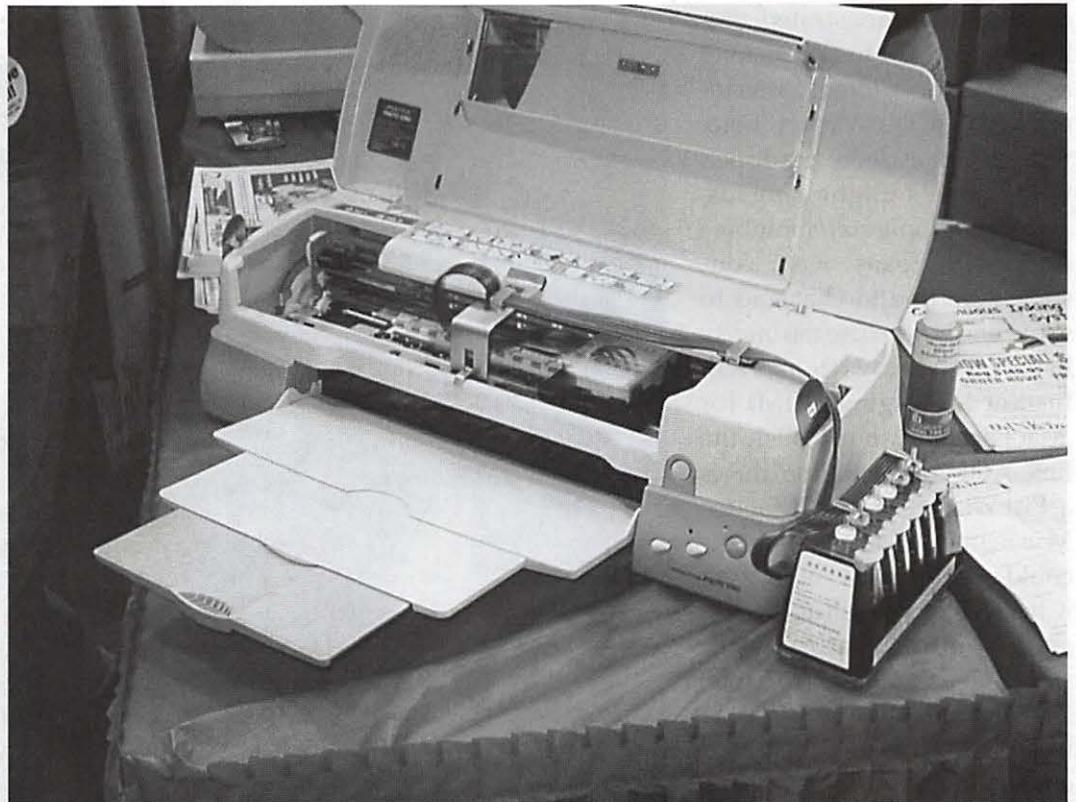


Photo 1 – An Epson or Canon printer (possibly others) can be outfitted with this ink reservoir system.

Apple tutorials we learned about the new features of Panther (Mac OS 10.3), the mini-iPod, and iLife4 (the suite of iPhoto 4, iMovie 4, iTunes 4.2, iDVD 4 and, now, Garage Band). What happened to iPhoto3?? [If Apple were located in the east, I'm sure that GarageBand would be called "BasementBand" because houses in the east have basements. Out here, there are no basements; the bands play in the garages.]

A demonstration of the new Exposé' feature in Panther drew lots of "Oooooohs." For someone who chooses to keep ten or so windows open at a time, a couple of the F-keys allow one to toggle between the normal view of the window in the front and the "exposed" view, showing all open windows, reduced enough in size so that all can fit on the screen.

The mini-iPod was really the rage of the conference. (Apple had plastered virtually all of the large advertising kiosks around the city with the multi-colored ads. And, they were still up when I went to the City a week later.) I was told the Apple booth was sold out before the end of the day on Friday. The *San Jose Mercury News* began coverage with Wednesday's paper (Jan 7). While showing the iPod in all its living colors and giving it rave reviews, the authors grouched about the price – \$250.

I really enjoyed the time I spent playing with the computers on the "counters." Apple folks were in abundance and demonstrated tireless willingness to talk as long as the visitor wanted. I was interested in iChatAV and iPhoto. Several iMacs were equipped with Apple's iSight cameras, and three Apple staff members in Austin, Texas, were constantly on-line to chat and to show one how to use the buddy list that comes with an AOL Instant Messaging (AIM) [or .Mac] account to establish the link. At the present time, this is a FireWire-equipped Mac-to-Mac feature. I was told that one could use Yahoo IM, along with iChatAV, to establish audio/visual communication with someone on a Wintel machine. But, that linkage was judged inferior to the Mac-to-Mac AIM connection.

My wife and I are iPhoto fans. I was most impressed

with the speed and new features of iPhoto 4 and came away resolved to download it, as Software Update (in Mac OS X) had prompted me to do for previous updates to the iLife series. But this, one cannot do! No Apple rep mentioned this specifically (and I did not think to ask) – one must buy iLife 4 (\$49.95) to get most of these new features. (iTunes 4.2 is a free download, probably because it's the gateway to the Apple Music Store.) Anyhow, iPhoto 4 is for the digital shutterbug. To demonstrate speed improvements, Apple asked employees to donate digital photos. On these demo machines the PhotoLibrary contained 25,000 photo files. In the Organize mode, one could scroll the entire library in a few seconds! Other photo organizational features, slide show music, transitions, etc., make this an attractive upgrade. I may have little choice but to pay the \$50; I have noticed that Apple will now charge \$20 to upgrade iLife on machines purchased after the first day of the Expo. Who knows? Maybe I'll get turned on "writing" songs with GarageBand?

This was my first Macworld Expo. I took great delight in finding so many knowledgeable vendor representatives at the various booths. I talked to a guy at Brother printers about a problem printing labels to my new network printer, another person at Intuit about a continuing complaint I have had with Quicken, and a

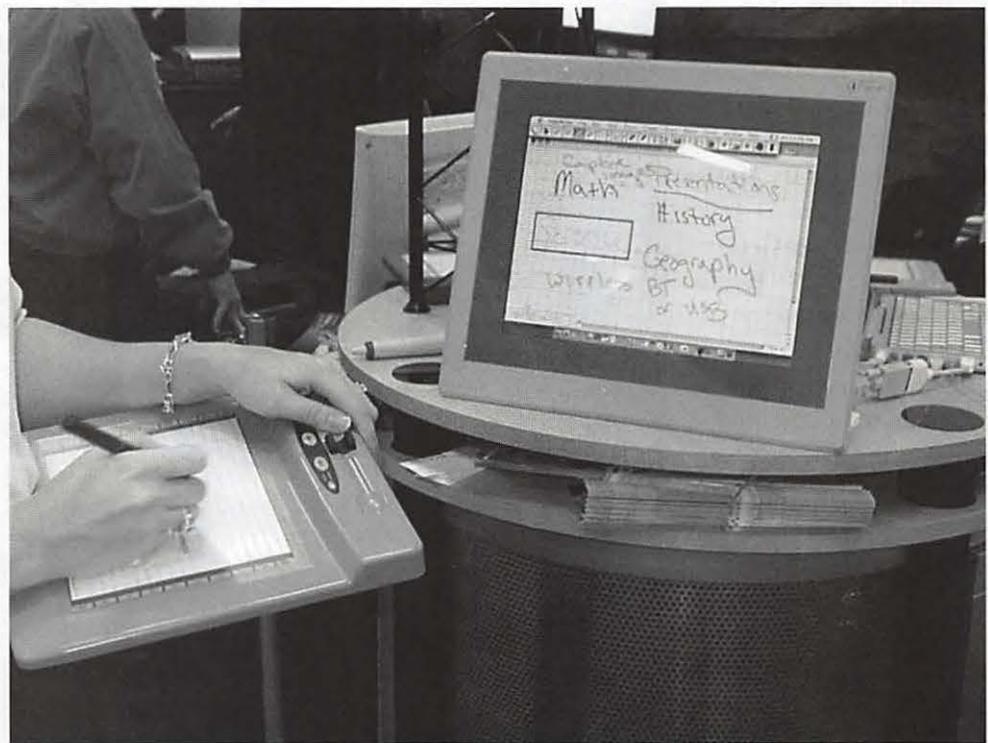


Photo 2 – Hand-writing with a stylus on the tablet shows up on both the computer screen and an electronic whiteboard (not seen in the picture).

representative at the Sonnet booth who assured me I can still buy an accelerator card for my PowerBook 1400. If only the card cost less than the laptop is worth! The Brother printer rep works in central New Jersey. He invited me to e-mail my label file to him and promised to take a look at the troublesome print dialog box that I encountered.

The Intuit rep was equally helpful with my Quicken question. I have resisted upgrading to newer versions of Quicken (until forced by CheckFree, my bill payer) because Quicken does a less-than-satisfactory job of carrying forward portfolio data, i.e., securities prices. I usually download prices at the end of each month to compare with my monthly brokerage statement. Quicken Quotes cannot obtain prices for many fixed income investments; I input these by hand from the monthly statement. My hand-entered data has been lost each time I have updated from Q98 to Q2001 to Q2002, etc. The solution: make up a fictitious stock ticker symbol for these securities. The Intuit rep told me that Quicken will carry forward all portfolio data based upon finding a symbol for it. Oh, and don't forget that the Quicken Quotes folder is stored separately from your normal Quicken data and must be moved manually!

The number and variety of equipment and software being demonstrated could have been bewildering. I steered clear of completely unfamiliar technologies and stopped at just a few "gee-whiz" places. The first was photo printing by thINK4inc.com. This company makes a continuous inking system designed for 6-color photo printers. The manufacturer's ink cartridges are replaced by a thINK4inc cartridge that is connected by a "ribbon-cable" of six tubes to a bank of reservoirs. Instead of replacing expensive cartridges, one simply refills the empty ink reservoir(s). (See photo 1). For someone who regularly prints many photos, this \$150 modification seemed worthwhile.

The second "gee-whiz" show consisted of remote writing and projection by GTCO CalComp. Using Bluetooth technology, an iMac, an image projector and an electronic whiteboard, classroom teachers can use a stylus on a hand-held tablet to link a computer screen and a whiteboard – all in four colors (See photo 2).

At the Microsoft theater, there were continuous presentations on Office 2004, a presumably substantial update to Office v.X. Microsoft staff members were giving away copies of Entourage; I saw few takers. On the wall behind this theater Microsoft had constructed a display of Macintosh hardware (SE to iMac flatscreen) and a timeline showing the evolution of the Macintosh and concurrent Microsoft program development. (See photos 3-7) [These seven photos, as well as others from the

I wasn't in the south hall ten minutes before I stumbled into Lorin Evans! So much for the remoteness of San Francisco to the obviously peripatetic Pi members! Lorin graciously put some wind back into my writing sails. So here goes...

Microsoft display, can be seen in color on the Internet – see postscripts below.]

I wandered over to the north building after lunch. About 200 people were listening to a conference wrap-up session featuring Jason Snell (*Macworld* editor), David Pogue, Paul Kent and Shawn King. There was a small sea of white 20" iMacs and an assortment of Power Mac G5s set up for people to try games. Finally, there were many small booths with just one person representing the company. These reminded me of poster sessions at ordinary engineering technical conferences.

Soon, it was 3:30 pm and time to meet my friends from the senior citizens center and head back down the peninsula. It was a very educational day for me. Now I know what I missed by not riding the Pi bus to New York each July!

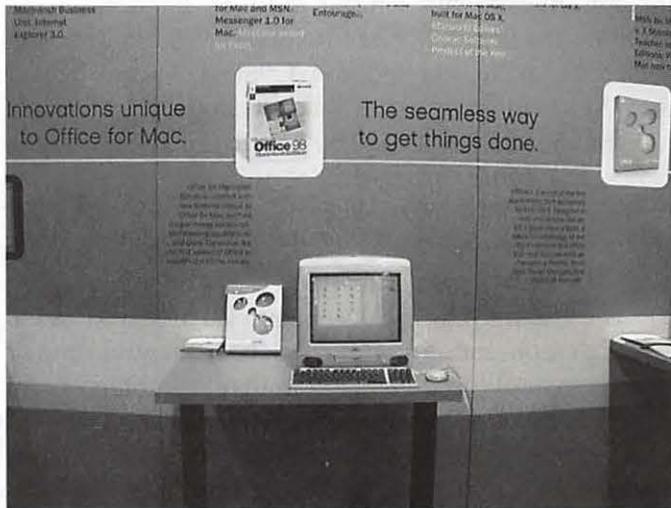
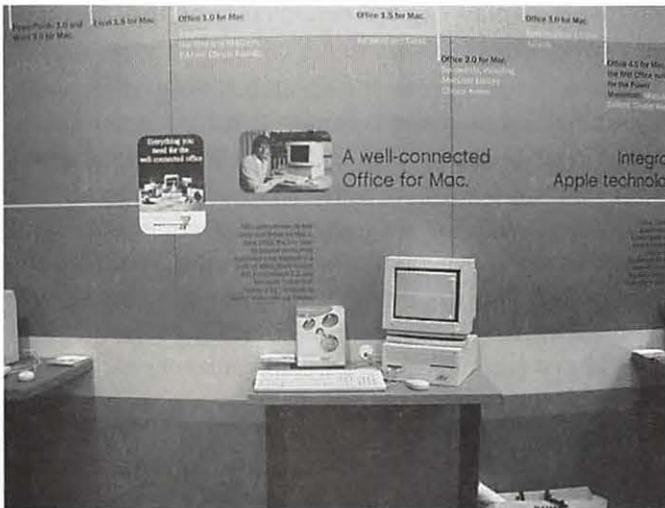
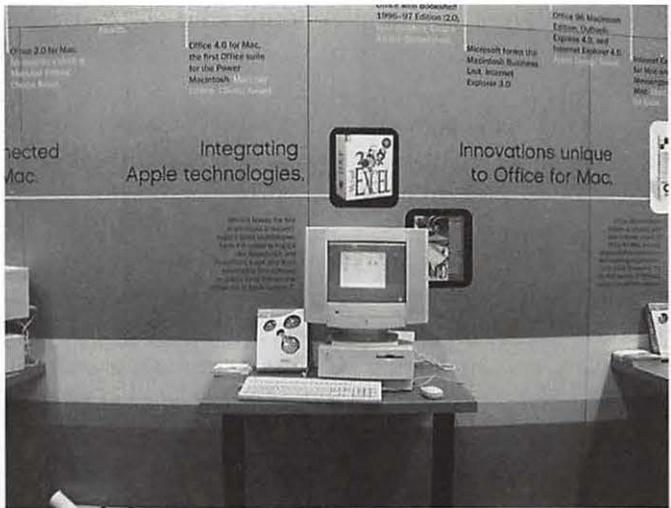
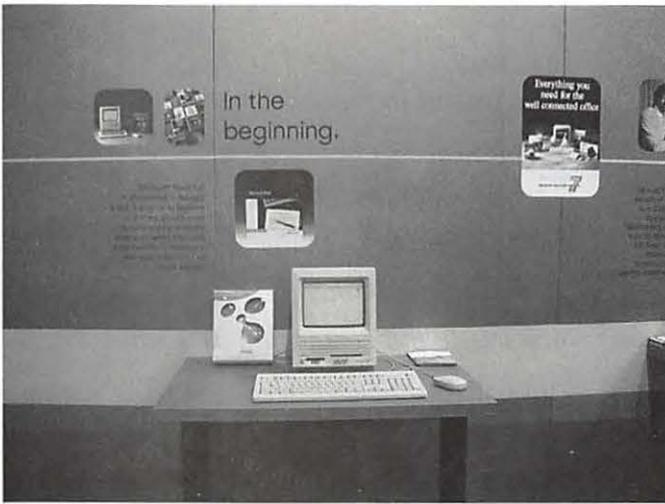
Postscripts

The seven photos, and several others not referenced above, can be seen in full color at my Yahoo Photo website. Plug in the following URL and click on a folder labeled SF04:

<http://photos.yahoo.com/robert.whitesel@sbcglobal.net>

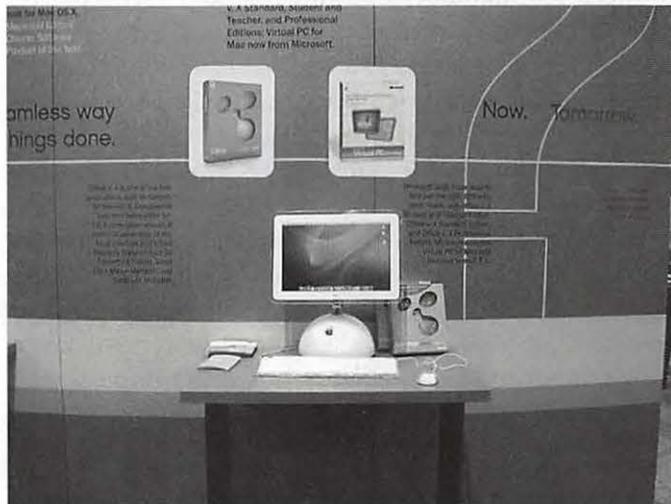
The *San Jose Mercury News* ran a front-page article on the 20th anniversary of the Mac on Sunday, January 18, 2004. I hope it also appeared in the *Washington Post*.

With Apple's headquarters within bicycling distance, I guess I shouldn't be surprised that press coverage of Apple's activities is so much larger here. Still, I was more than amused when I read a long article that appeared in the middle of January, less than a week af-



ter the Mac Expo had closed. A local reporter with some musical talents had holed up for the weekend after the conference with the GarageBand software, the keyboard and other necessary equipment and spent the time using GarageBand to see how much music he could write!

Bob Whitesel joined Washington Apple Pi in 1995 when he lived in Fairfax. He and his wife, Heidi, moved back to the San Francisco Bay Area in May 2003 to spend at least a couple of retirement years near West Coast family.



Photos 3-7 above – The Microsoft display of Macintosh evolution. MacSE, MacIci, Quadra, OrigIMac, fltsrcn (Photos taken with an Olympus D-510Z digital camera)

Notes from Macworld

By Lorin Evans

[DURING MACWORLD San Francisco 2004, former Pi President Lorin Evans jotted down quick notes each day and sent them off to the Pi Webmaster. The messages, below, are from Lorin, but the parenthetical comments are from the Webmaster.]

Day Minus One

From: Lorin Evans
Date: January 5, 2004 21:11:37 EST
Subject: Day Minus One

Hi Lawrence,

A couple of quick observations from my second visit to Moscone.

Registration was the usual quick conversion to a media badge. The lady who converted me looked at the [*Washington Apple Pi Journal*] magazines I brought and said: "You are the second one from that group today."

What I don't understand is the level of finish for a show that opens Tuesday at 10am. It isn't. The show floor, what little of it I saw, looks like grandma's attic. They were still hanging banners, delivering furniture, and assembling the structure of booth — never mind the wiring and pretty stuff. The unions out here have got to love this bunch. Overtime must be change to these companies. There was so little finished Friday afternoon, that much work must have been done Saturday and/or Sunday — or none was done which explains the condition of the show floor today.

One person offered that they fear that this will be a year of fewer vendors or some kind of a different tenor to the floor than usual. I can't tell now, but Moscone is much less finished than I ever remember seeing.

Oh, at least half the escalators are out of commission undergoing major overhauls. Physical fitness will be the

order of the day tomorrow, and the tomorrow after that, and . . .

Yes, look for me in the audience at the keynote in the Mac OS 9 section.

Lorin

Day One

From: Lorin Evans
Date: January 7, 2004 15:11:31 EST
Subject: Macworld Day One

Looking back on Day One as the sun rises over the Rockies heading my way, some snippits:

GarageBand (my English teacher will roll in her grave)



Yes was promoting their product line with this unusual walking billboard: a person dressed all in black (including black gloves), with a large, metallic blue ball over their head. Bob Whitesel (who took the photo) asked the person inside how it was, and got a muffled "Hot and stuffy." (Photo taken with an Olympus D-510Z digital camera.)

is a good deal, unless you are one of the third-party vendors who make that kind of software. Keynote, Safari, iPhoto, iTunes, GarageBand... get the picture? Grousing about the price of miniPods: several retailers said the same thing. Drop the price by around \$50. Take the two cords out or remold them as one to get the price down. Why pay \$250 for 4 gigs of flash RAM when you can pay \$50 more and get four times the storage. [See correction in Day One Point Five] One vendor said that Apple will skim off as much at the opening price as it can and then drop it. Now if you could connect that mini to a camera, hmmm.

... there was nothing to really wow folks...

Folks have got to get over that. The cycle of new hardware releases in January and July does not work today. Why buy a Mac in December when you can expect a new version three weeks later? The school buying cycle (what is left of it for Apple) does not work on that calendar, etc. New hardware or updates came out twice between Sept and November. School shows are in March/April.

So why spend big bucks to go to Beantown? Have local dealers rep for the company.

... Any impressions on first day?

Dealers are fuming, third-party folks are concerned, the faithful who grew up on new hardware feel let down, and the show seems smaller and less buzzy.

Media folks have discovered that IDG got cheap this year. No free food for the media - just drinks (as of Day One).

Found one really neat hardware vendor in your backyard (Columbia). Am to visit with them today.

More to follow.

Lorin

Day One Point Five

From: Lorin Evans
Date: January 7, 2004 17:30:32 EST
Subject: Will Someone Please Check

My note to you that got lost and then rerouted has an error in it.

I said miniPod uses flash RAM. Not so. It is one of the newish mini hard drives. It is the flash RAM market that is of interest to Apple with this device. It is cute, it is small and needs to have a price drop sooner than later.

I keep thinking of the Cube. I said that to one of the wags around here and he opined: "Place eight of them in the right shape and you have a new cube."

Gulp.
Lorin

Day Two

From: Lorin Evans
Date: January 8, 2004 3:35:21 EST
Subject: Macworld - Day Two

Here is your morning fix from Day Two of this, the 19th Macworld of San Francisco. While this is the 20th year



Introduced at Macworld San Francisco 2004, iLife '04 is a suite of applications that includes iPhoto, iTunes, iMovie, iDVD, and a new application, GarageBand. Apple obviously expects the package to be popular with the whole family: it is available in a Family Pack.

of the Mac there have [been] only 19 shows.

I have just returned from one of those 'events' that are rumored to exist, but for which no one seems to have passes — well most everyone. I was treated to the booth party of You Software. They make two applications that sound yawnish to me, but must be making bucks for someone. The owner rented the Sno-Drift Lounge wall-to-wall for the evening and — well you got the picture. [See accompanying photo. You Software was founded by the founder of Extensis and Now Software, which is a better track record than most companies have to offer.]

Much of the day was spent doing what I do best: talking to mid-level managers about their products, the Macintosh computer market and assorted stuff. Today's gleanings (not all of which may be news to you) include:

Neither the iPod nor the miniPod was spec'd for the playback of a long thing. I can't call them songs anymore, because Steve now sells audio books and classic music. I was told that the design parameter is for the 3 to 4 minute thing. The buffer, which is where a tune actually come from when you hear it, was sized against that parameter. The hard drive is to load the song into the buffer, spin down while you listen to it, then you select a new tune, the HD spins up, loads the song into the buffer, spins down and on and on. Given that cycle, the pod will run for XXX hours between charges.

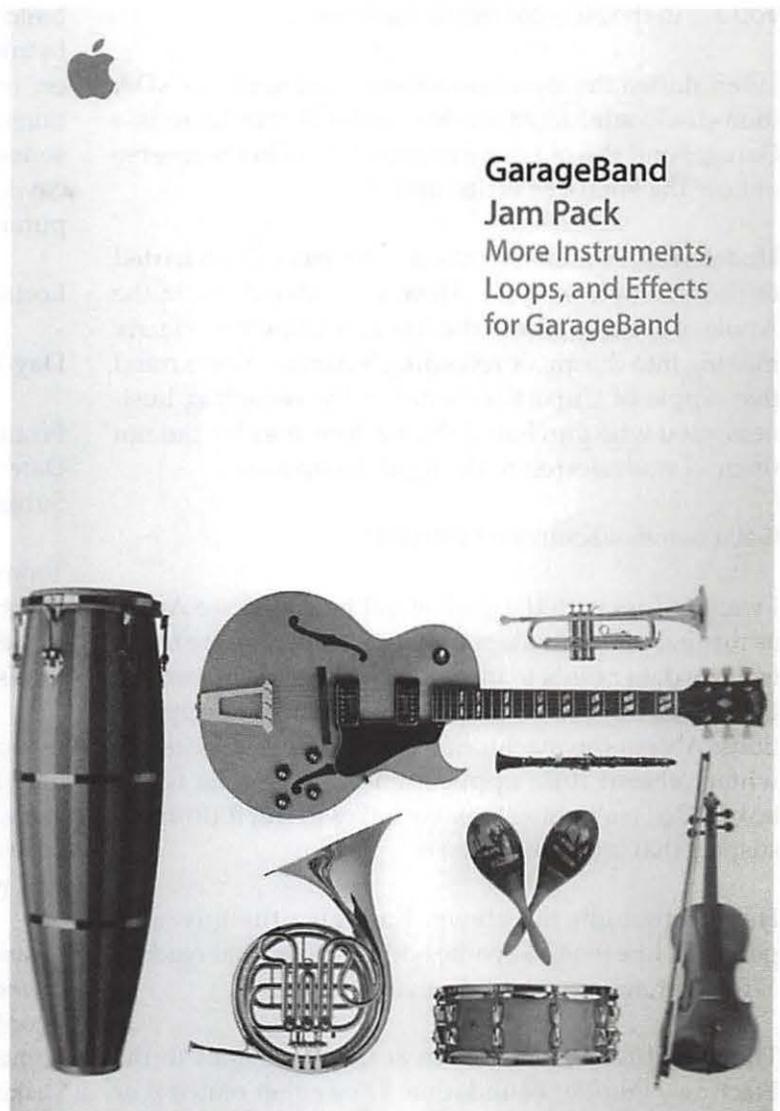
So the topic of conversation that I was able to listen to began as a discussion of battery replacement in the miniPod and the snit that Apple got itself into with its handling of the iPod battery story. It wandered into the area of what determines the length of time you can run an iPod before it needs a recharge. Up came the question as to what was being listened. I asked what happens when instead of playing Mick Jagger, you decide to hear a speech by Bill Clinton, or an aria by Pagliaccio letting you know what he thinks of his wife's lover. After all, Steve is now selling LP stuff. The discussion was an interesting (to me anyway) ode on battery life.

Off to visit the GarageBand (GB) experts. I got lots of questions for them. Assemble some of my notes together and you get:

Me off to a funny start. Why, I asked is the update to iLife not iLife 2 or 3, the way you update iMovies, etc. Why iLife '04. Didn't some in the Mac community sneer at MS numbering a product by year of release: Windows 95, then 98, Office 98 and now 2004, etc. What little I heard took up no space on my note pad. So, I don't have an answer.

Back to business:

■ GarageBand is a combination of technology from Emagic and stuff that Apple grew in house. The in-house work became a pricy retail package called Soundtrack



Introduced along with iLife '04 at Macworld San Francisco 2004, the GarageBand JamPack is an add-on package to GarageBand that adds more instruments, effects and loops, vastly expanding the range of possibilities.

(ever hear of it?). [See References, at the end of the article.]

■ Apple purchased Emagic, makers of Logic Audio and some audio hardware in 2002. The folks here speak of Emagic as a separate company akin to the old Claris.

■ to find something similar to GB is to look at Soundtrack which lets you combine music snippets from a library of assorted instruments and styles.

■ the musical snippets in Soundtrack are looped so that each repeats seamlessly at regular intervals. Each loop has a specific tempo so that tracks can combine and sound like something. Stack a bunch of loops and you are in the elevator music business.

I then shifted the topic into what turned out to be NDA (non-disclosure) territory. My guess is that there is a GarageBand Pro out there coming sort of in the reverse of how the Final Cut series unfolded.

Undeterred, I wandered into another piece of uncharted territory: Apple v Apple. How, I wondered might the Apple of London take to the Apple of Cupertino clearly moving into the music recording business. Never mind that Apple of Cupertino is not in the recording business - you who purchased the machine may be, but not them - I was referred to the legal department.

Got a name of someone I can call?

I want to fuss with the analyst out here who see Apple as turning into a media company. I think they are using too few data points to make their case and are missing the point of Apple developing these iLife type applications. Absent the machines to run them, iLife goes nowhere; absent iLife applications, Apple sells fewer boxes. Dell isn't going to make boxes to run iLife app. I suspect that is a story in itself.

Having thought the above, I am also the guy who penned a line in my keynote address notes that reads ". . . the new sugar water salesman."

The award for bravest booth at the show goes to the Electronic Frontier Foundation. They either rented it or it was donated to them by IDG. Four chairs and a coffee table. On the table was the usual literature from EFF and a begging bowl. It is a sign of the time, or the political climate out here, that the bowl was full of greenback

each time I went by. I want to believe I was viewing different greenback each time.

It turns out that it is useful to have a press room without food. The straphangers and food vultures have gotten really scarce. Left behind are people with a media pass who buy their food from the in-house caterer (or smuggle it in) and eat in the back, and working stiffs who sit at the wired tables and do what they were sent here to do.

It is via that unintentional filtering that I found a Macworld maven. He is a reporter for some newspaper south of SF who has attended every SF Macworld and enjoys talking about them. I learned about the Brooks building [Brooks Hall, built under the Civic Center Plaza in front of City Hall] where the first ones were held and on and on. Back then, so he recalls, there was revolutionary hardware and mortgage your house prices. [This sounds like the *San Jose Mercury News*, which has been covering Apple since the days of the West Coast Computer Faire in 1976.]

Lorin

Day Three

From: Lorin Evans

Date: January 9, 2004 1:52:27 EST

Subject: Macworld - Day Three

Today was kind of interesting. Over in Las Vegas, Apple and HP jointly announced that the two would partner to deliver iTunes, its associated methodologies and iPods to HP customers.

By now, the details must be pretty well known. But out here it was a chance to watch what happens when a story involving those two — companies with major presence at this show — breaks: how they each treated it and what was asked of media people by their funders.

I was not aware of the story until contacted by the *Washington Post* for commentary. So first I checked with the people here that I know are covering technical stuff. Some yawns, some 'close to the vest' comments. When I asked for something more useful, one writer saw it as a nice wedge wherein Apple and HP, neither friends of Dell, get to do 'it' to Dell each for its own reasons: HP needs to differentiate its product in the market and Apple wants to sell more pocket music boxes than does Dell.

Another told me to go visit the PR folks at Apple and HP.

Good idea. Well actually it turns into a snipe hunt. Off to Apple's PR office. Oh, yes sir, right this way; let me make a call on that. Oops, the person handling that story is Lynn Fox and she is in Cupertino. Let me give you her e-mail address and phone number. I am told no one here is authorized to speak on the matter.

OK, off to visit HP. Wow, HP is waiting for me. Have our press release on the subject. It contains some elaboration. Glad we could help, but gotta go.

Back in the press room, knowing smiles ask me about my adventure. Phooey on this. Let me do it my way.

Asking people on the floor was a dud. The buzz from the floor is goodie; more people to buy iPods and miniPods.

I don't know the economics of it yet, but: it use to be that you gave the shaver away and sold lots of blades. In this business, Apple needs to get mass behind the download store. More downloads breaks down more industry barriers so that more companies allow their music to be sold in the Apple store. More stuff to download attracts more people who can start with the software in their computer (HP and Compaq) and, if all goes well and they have a 'satisfying experience,' buy an iPod.

Note that to this end, Apple now has talking books, the Billboard Top 100 for year X, and classical music. Next could come samplers of new music.

What is pleasing to a couple of folks I talked to is that by being preinstalled the iTunes software along with an icon on the desktop, Apple has mastered one of the marketing tools that helped AOL gain prominence for its service.

I sent in my comments, but know not what happened.

The other buzzy thing from HP is something called HP LightScribe. There are none here, but it is described as a way to use a CD writer to etch a label onto the topside of a CD.

Back on the floor, I find some gems:

In your back yard is InterWrite school hardware from GTCO CalComp in Columbia, MD. Nice use of Bluetooth technology for the classroom.

Ovolab Phlink

Ovolab Phlink, combined with the Ovolab Telephone Adapter, can answer telephone calls and identify the caller using Caller ID and Apple's Address Book. After answering a call, Ovolab Phlink records a message and stores it on your Mac for later retrieval. But the real power of Ovolab Phlink is what it can do while the call is in progress. It will silently listen to any keys the caller presses on the telephone keypad, and perform actions based on the digits that are typed.

Therefore, you can set Phlink to play a greeting that presents a menu of options, and allow the caller to choose by pressing a number. The menu can be customized for each caller, thanks to Caller ID.

You can set Phlink to play a confidential message when a secret code is pressed. Or it can provide information by looking it up on the web: ask it a stock quote, the status of a shipment, weather forecasts, and more.



This detail, taken from the packaging for an Apple iSight FireWire camera, brings to mind visions of 2001: A Space Odyssey. "Dave? Can you hear me, Dave?"

But Phlink is not limited to playing prerecorded messages. You can run any AppleScript, or launch any application, by pressing keys on your telephone's keypad - from any place in the world. Take a video snapshot and send it by email, turn file sharing on or off, restart a server. The possibilities are endless.

Scripts can also send audio feedback to the caller by speaking text - using Mac OS X's speech synthesis, - in addition to playing back prerecorded sounds.

Ovolab Phlink can encode messages at extremely low bitrates and send them as email attachments to any address you specify. So you can check your voicemail, along with email, while on the road.

This ought to keep folks busy.

EJ MIDI Turntable - technology for future music. This is my kind of contraption. The MIDI Turntable is a retrokit for existing DJ turntables that gives amazing new options to DJs, VJs, Electronic Musicians and Video Editors. For the first time, DJs can scratch and beatmix music *videos*, using the turntables they already own. Imagine watching TV, but being able to rewind it, scratch it, or pitch shift it using a turntable. The system is made up of a patent-pending Optical Vinyl & Cartridge, a MIDI Converter box, and the ScratchTV software, which runs on Mac OS X and Windows.

Take your GarageBand creation, sync it with some of your vast electronic photo collection and run it all through this MIDI turntable. Your daughter will be so impressed with cool dad that she will consider move back home, where you will treat her to:

Toysight by FreeVerse

Toysight is set of cool games and toys to play using your iSight or similar FireWire camera. Using a system of object and motion detection to track your position, Toysight allows you to control buttons, sliders and perform gestures on the screen, putting you right in the action.

People are plunking down lots of bucks for this one. Tell [Pi members] to recommend Toysight instead of fussing with folks who think they are going to see grandma through their iSight on a Mac running Mac OS X 10.1 or 10.2.

With 42 G-5 machines in the game room, I'll be busy tomorrow.
Lorin

"So the topic of conversation that I was able to listen to began as a discussion of battery replacement in the miniPod and the snit that Apple got itself into with its handling of the iPod battery story. It wandered into the area of what determines the length of time you can run an iPod before it needs a recharge."

PS: Oh, this may make more sense to you than to me. It has something to do with hyperlinks, making words machine readable, and speech recognition:

Microsoft has agreed to include [Section] 508 compliance in Word 2004. It will add some additional features to the Mac version that are not now found in the PC version of the program (when released).

Anchor links work in the PC version, but not in the Mac version. Microsoft has agreed to fix that as well.

I took some other notes, but I am not sure they make any more sense than what I wrote.

Mean anything to you? [The changes have to do with changing Word so that it can create documents compatible with the Americans With Disabilities Act.]

Day Four

From: Lorin Evans
Date: January 10, 2004 2:42:43 EST
Subject: Macworld - Day 4

As the sun sets in over Moscone West, it is time to roll up the miniPod banners that are the mark of Macworld 2004, close the doors on the two Honda show cars that greeted me each morning at the foot of the escalator that led to the poor side of town, and make sense out some last minutes notes concerning the show.

Gotta have a miniPod? Count to 10 first. The show price among vendors selling them dropped to \$235 by

afternoon, with shipping included.

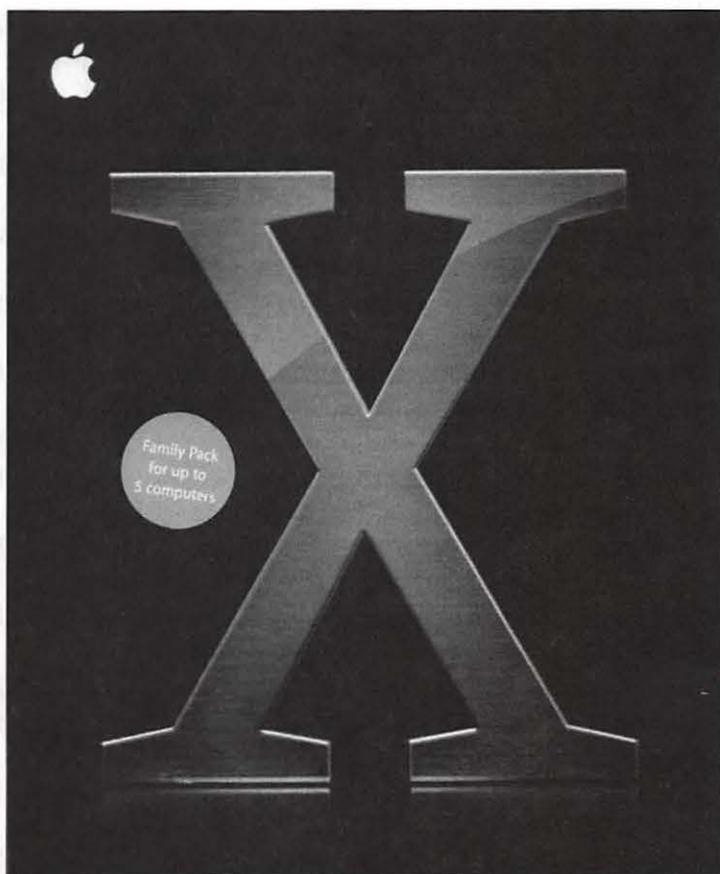
I made the rounds of vendors who had things to sell to gauge their feelings about the show. Attendance is said to be down from last year, and it felt it. The size of the floor on both sides of town was smaller. Vendors are well aware of how costly it is to fund a booth and support staff costs. Never-the-less, the ones with whom I spoke were happy with their decisions to come. After all, they don't care how many people come as long as those who do spend money. My limited survey results mirrors that of other reporters who posed similar questions.

The two booksellers I spoke with both reported increased sales over last year. PowerBook baggers the same; and this year there seemed to be a more vendors resulting in a greater range of offerings vice more competing to sell the same line of bags. Portable device accessories sold very well. Two vendors with whom I spoke, who had a rep on the floor, but whose merchandise is only available via one of the wholesalers on the floor, report sold-out or near sold-out. FireWire devices (boxes and assembled units) all sold well. Games sold well. 24 G5 towers and 18 igloo Macs in the games area were kept busy engaging the faithful until the end.

Inkjet cartridges sold well — if you were one of the two vendors on the floor. The other found it kinda dry. Seems there is a small dust-up in the inkjet cartridge business. The show had two styles of vendors: Canon and Epson knock-off sellers (less HP!) and remanufacturers (whatever that means) (less HP!). The remanufacturer and seller of large tank adapters for printers had a fine week, he said; the knock-off folks found it quiet. Neither encourages you to do a refill. Success or failure is found in the ink formulation over which you have no control.

No one touches HP cartridges directly. HP is chasing anyone around the block who tries to make a knock-off. What one company is doing — and selling lots of — is buying HP cartridges by the truckload, completely filling the tanks (turns out they aren't that way coming from HP) and selling those. Both vendors recommend against refilling HP cartridges that have run dry. The HP methodology will cause distortion of the orifices if you ask a cartridge to print without ink in the tank.

Inkjet tip of the month: if your printer uses an offset



Mac OS X 10.3 "Panther" comes in a regular version, and in a "family pack" that can be installed on up to five computers in the same household. The only difference in the package is a dark green sticker on the front that identifies it as a "Family Pack."

methodology — ink tanks and print heads in different locations - and one color refuses to print, try this. Take an empty tank and fill it with an ammonia-based window cleaner. Insert it and run the purge/clear cycle several times to try and clear the dry spot in the line that connects tank and printhead. If it works, install a cartridge with ink; print a few pages to clear the goo from the line and think fondly of the Pi.

"What's for supper, mom? Ask your Mac."

Like to cook? Watch for a neat piece of software to come from XtremeMac to be called Recipe Manager. The demo is promising. If you load the contents of your kitchen cabinets into the database and load in recipes, it can tell you what you can make based on what is in the house. [This sounds similar to an older Mac program, *Mangia!*]

Look for Prosoft to offer some new features in a revised DataRescue X application specifically designed to re-

cover files from iPods and collections of clips from iMovie/FinalCut laden hard drives.

Watch for Apple to throw a bone to its independent dealers (my English). The company plans to create a dealer's version of the on-line Apple store where dealers can buy merchandise for a customer and get credit for the sale. The devil will be found in the details.

Lorin

PS: I went back and talked to the Ovolab guy, Alberto Ricci. His gadget is for real: \$140.00 [\$149.95].

Resources

You Software

<http://www.yousoftware.com/>

Apple Soundtrack:

<http://www.apple.com/soundtrack/>

GarageBand

<http://www.apple.com/ilife/garageband/>

Apple iLife '04

<http://www.apple.com/ilife/>

Apple iPodmini

<http://www.apple.com/ipodmini/>

Emagic Soft and Hardware

<http://www.emagic.de/>

Electronic Frontier Foundation

<http://www.eff.org/>

Hewlett-Packard and iPod

<http://www.hp.com/hpinfo/newsroom/press/2004/040108b.html>

Hewlett-Packard LightScribe

http://www.hp.com/hpinfo/newsroom/press_kits/

2004/ces/bg_lightScribe_technology.pdf

GTCO CalComp InterWrite

<http://www.gtcocalcomp.com/interwrite.htm>

Ovolab Phlink

<http://www.ovolab.com/phlink/>

EJ MIDI Turntable

<http://www.ejenterprises.tv/>
Freeverse Toysight

<http://toysight.com/>

Xtreme Mac Recipe Manager

<http://www.xtrememac.com/software/recipe manager.shtml>

Prosoft Data Rescue X

<http://www.prosofteng.com/>

Pagliacci – words and music by Ruggero Leoncavallo

<http://home.earthlink.net/~markdlew/lib/pag/pagliacci/> ■

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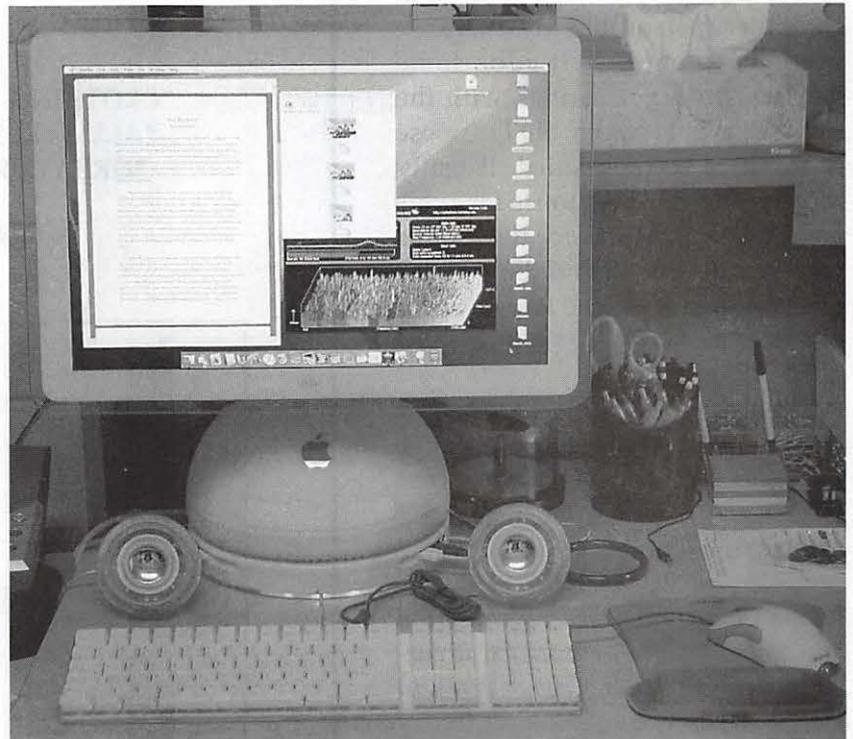
I AM NOT one of those people that knows what a “gigaflop” is... although it sounds as if it is something I should take an herbal regimen to prevent. I could not, on a dare or otherwise, rattle off the IP address of my built-in Ethernet card. I really do not have any idea how much memory I have or when I should think about getting more. I am one of those people that checks their E-mail and does their homework and organizes their music and uses the Internet to do just about everything from buy books to sign up for classes to view my bank records, and I have no idea how it all works. I don't think I should have to for it to work flawlessly.

That's why I own a Mac. And a cool one, at that. My parents, for Christmas, replaced the computer I've had since ninth grade. Catherine the Grape, as I lovingly named her, is a purple iMac DV, 400 MHz, with a 10GB hard drive and a G3 processor. Her successor, Luxo, is my new 20-inch flat panel iMac sporting a 1.25 GHz G4 processor; a Seagate Technologies drive (with a claimed capacity of 80GB, but formatted, it's only 74.53GB); a Pioneer DVD-RW DVR-106D optical drive (which can create both CDs and DVDs); and a billion bytes of memory. No, I don't actually know any of this; I asked my Daddi. The computer itself looks like a little igloo with the screen acting as an oversized radar sticking out of the top. The color, according to Apple, is “snow,” so that only reinforces the mental image.

Everything seems to run faster, and I certainly can work on more things at a time. For one thing, there is more space on the screen for me to spread my work out. For another, I can run nearly all of my application simultaneously with absolutely no problem. This makes my life incalculably easier, as I can have four windows open in Safari, a handful of windows open in iChat, be typing a missive to my parents in Apple Mail, and have SETI running in the back-

ground, minding its own business. Switching back and forth is effortless for Luxo and seamless for me. Anyone could appreciate this speed... applications nearly fly.

The screen, as I am sure you will understand, is a gem that has not yet ceased to generate ooohs and aaahs from admirers. Everything is brilliant, sharp, and incredibly vivid. As shown in Apple's commercials, the screen glides up and down and from side to side on the arm, seemingly floating in mid-air for great effect. The grand size of the screen, surprisingly enough, did not shock me at first as one would expect, but instead was most noticeable when I went back to Catherine to transfer some files and thought, “Wow... this is really small!” Luxo's speakers are cute little ‘eyes’ that stare out at you while providing a great, rich sound (which is very important to me. I told my parents that if my old iSub didn't work with the new iMac, I didn't want it). Perhaps the most interesting feature of this computer is the ease with which one can install more memory. To do this, you have to remove the bottom panel of the base by undoing a number of screws. With the new iMac, these tiny screws don't fall out of the access panel when



Portrait of the iMac, with that wonderful 20-inch screen, sitting on a cramped dorm room desk. The UFO base is all but unnoticeable. Yes, that really is a Microsoft Intellimouse Optical USB mouse on the side; Apple's mouse is kept in a drawer as a spare. (Photo taken with a Canon PowerShot G3 digital camera.)

"Everything seems to run faster,
and I certainly can work on more
things at a time."

removed from the computer base itself, so there is no need to crawl around on the floor in a harried quest to locate minute pieces of metal in order to reassemble the computer.

As an added bonus, I have the U.F.O. (USB FireWire Organizer) base. It provides 4 USB and 2 FireWire ports, and space for storing unused lengths of cable. Highly convenient, it is also streamlined, with sliding doors to cover unused ports and a *patented* Cool-Blue Glow that keeps my roommate up at night. (It can actually be turned off, but where's the fun in that?) The weight of the iMac nestled on top holds the upper and lower halves together. Installation is easy enough for a non-computery person, like myself, to figure everything out. It adds some height, not like it matters with the fully adjustable screen, but I suppose it ought to be mentioned. It really serves as the finishing touch for a chic and powerful iMac... for those of us who just do E-mail and the Web, as well as those of us who know what a gigaflop is.

References:

iMac: <http://www.apple.com/imac/>

UFO: <http://www.xtrememac.com/formac/ufo.shtml> ■

Lykara Charters, a member of Washington Apple Pi since she was six, is currently in the first year of a four-year sentence at an enormous state university and is accepting donations. In addition to her formal studies, she plays marching baritone in the university marching band. She likes to sleep in her spare time, but of course has no spare time.

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Using PostgreSQL on the Mac

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likely to ask: Where is it? How do I run it?

This article will try to show how PostgreSQL can be used on a Mac. The process will require a generous dollop of geekspeak, so put on your lab coat, pocket protector and horn-rim glasses. You won't need your hex calculator, but you can have it nearby for moral support.

PostgreSQL is, like most modern DBMSs, a "client-server" system, even when running on a single Mac. There is a server task called "postmaster" which does all the heavy lifting. Client programs supply requests to it, and the server returns data.

Installing PostgreSQL on Mac OS X is very much like installing it on any other Unix platform. One minor pain is that Mac OS X is a little non-standard from a Unix standpoint. User directories are under /users instead of /usr, /tmp is a link to /private/tmp, etc. An already-compiled, ready-to-install version of PostgreSQL is available (see references at end of article).

Starting the Server

The server is a program called "postmaster" which runs as user "postgres". Here's how it gets started up:

IN BUSINESS environments, Macs tend to be used in creative departments, for writing, graphics or publishing. Business applications, such as accounting and databases, tend to be done on PC platforms. With the introduction of Mac OS X, this is changing; the Mac is becoming a suitable platform for serious business computing. One database management system (DBMS) that has recently become available on the Mac is PostgreSQL.

PostgreSQL is not a standard Mac application. It comes from the Unix world, and does not have a graphical user interface; you communicate with it mostly through Terminal. Once you've installed it, you are

```
[number26:/users/postgres] rickrodm# su - postgres
[number26:~] postgres%
```

```
[number26:~] postgres% /usr/local/bin/postmaster -D /usr/local/pgsql/data &
[1] 520
```

```
[number26:~] postgres% LOG: database system was interrupted at 2003-12-25 10:17:15 EST
LOG: checkpoint record is at 0/8341AC
LOG: redo record is at 0/8341AC; undo record is at 0/0; shutdown TRUE
LOG: next transaction id: 510; next oid: 16980
LOG: database system was not properly shut down; automatic recovery in progress
LOG: ReadRecord: record with zero length at 0/8341EC
LOG: redo is not required
LOG: database system is ready
```

Queries

Now that the database server is running, how does one do anything with it? With a program called "psql". Still logged in as postgres...

```
[number26:~] postgres% createdb postgres
CREATE DATABASE
```

```
[number26:~] postgres% psql
Welcome to psql 7.3.3, the PostgreSQL interactive terminal.
```

```
Type: \copyright for distribution terms
      \h for help with SQL commands
      \? for help on internal slash commands
      \g or terminate with semicolon to execute query
      \q to quit
```

```
postgres=#
```

PostgreSQL is a Structured Query Language (SQL) database. SQL was designed and standardized as a query language, intended to be simple enough that managers could write their own simple reports (not all managers, of course, only those with functioning cerebral cortices). Just so we don't lose anybody, a very brief SQL introduction will follow; SQL gurus may skim.

For the demonstration purposes, we will create a simple author/story database. The database will consist of four tables, Authors, Stories, Characters, and Characters_in_Stories. The Data Definition Language (DDL), which defines the structures, and the Data Modification Language (DML), which inserts the data, are given in sidebars.

The Authors table has a Name field and an Author_ID field. The Author_ID is a "serial" field that sequentially generates values as they are inserted into the table. The serial field uses an implied sequence, generating unique key information in a way similar to that used in Oracle, but with a PostgreSQL-unique syntax: you don't specify anything for the serial field.

```
postgres=# insert into authors ( name ) values ( 'Rex Stout' );
INSERT 17038 1
```

Here are the Authors:

[Courier]

```
postgres=# select * from authors;
 author_id |      name
-----+-----
          1 | Agatha Christie
          2 | Rex Stout
(2 rows)
```



You hear tales of people lining up outside Macworld at insane hours of the morning, hoping to get good seats to the Keynote speech. People have no idea what Steve Jobs is going to say, but they want to be close at hand when he says it, whatever it is. Who are these people, you wonder? (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)

The Stories table has a Title field, a Length field, a Story_ID field, and an Author_ID field. The Story_ID field is a serial field, but the Author_ID field contains the Author_ID from the Authors table. In this way we can “join” Authors to Stories. The sample data is a small group of Agatha Christie stories. Here are the Stories:

```
postgres=# select * from stories;
 story_id | author_id | title | length | review | comments
-----+-----+-----+-----+-----+-----
          1 |          1 | A Pocket Full of Rye | 186 | 5 | Very good
          2 |          1 | Funerals are Fatal | 186 | 5 | Very good
          3 |          1 | The Tuesday Night Club | 12 | |
(3 rows)
```

Here’s how we join Authors to Stories:

```
postgres=# select stories.title, authors.name
postgres=# from stories, authors
postgres=# where stories.author_id = authors.author_id;
 title | name
-----+-----
 A Pocket Full of Rye | Agatha Christie
 Funerals are Fatal | Agatha Christie
 The Tuesday Night Club | Agatha Christie
(3 rows)
```



Shawn King of Your Mac Life, Paul Kent of IDG, Jason Snell (editor-in-chief of Macworld Magazine but mostly obscured in this picture) and New York Times columnist and book author David Pogue discuss their feelings about Macworld San Francisco as a whole in a wrap-up session held late on the final day. (Photo by Craig Contardi, taken with an Olympus C5050Z digital camera.)

Similarly, there have a Characters table. It has a Name field and a Character_ID field just like Authors.

```
postgres=# select * from characters;
 character_id | author_id |      name
-----+-----+-----
           1 |          1 | Hercule Poirot
           2 |          1 | Jane Marple
           3 |          1 | Ariadne Oliver
(3 rows)
```

We could have put a Character_ID field on the Stories table, but then we could have had only one value there - only one character per story. Of course we're not going to list all the characters, but there are Agatha Christie stories in which both Hercule Poirot and Ariadne Oliver appear. I would like as many characters to be joinable to a story as possible. The solution is an intermediate table, Characters_in_Stories, which contains a Story_ID and a Character_ID. To connect any character to any story, you insert a record in Characters_in_Stories.

To get a list of stories in which Hercule Poirot appears, we (a) join Stories to Characters_in_Stories, (b) join Characters_in_Stories to Characters, (c) look for a match in Characters to "Hercule Poirot". Expressed in SQL, it looks like this:

```
postgres=# select title, length from stories, characters_in_stories,
postgres-# characters where stories.story_id = characters_in_stories.story_id
postgres-# and characters_in_stories.character_id = characters.character_id
postgres-# and characters.name = 'Hercule Poirot';
 title          | length
-----+-----
Funerals are Fatal |    186
```

Shawn King (Host of Your Mac Life and the keynote speaker at the Pi's 25th anniversary celebration last year) entertains those gathered in the user group lounge with his self-deprecating stories of all the stuff he's lost at Macworld Expos around the world. Current Pi President Pat Fauquet is visible in the lower right corner of the photo. (Photo by Craig Contardi, taken with an Olympus C5050Z digital camera.)



Simple, eh? But, if you've looked at the DML sidebar, you've probably noticed that entering data with insert statements is pretty cumbersome, especially since you have to type each of the names perfectly each time. You could look up the IDs, sure – but then you might insert incorrect data if the IDs should be different.

Stored functions

PostgreSQL implements a built-in programming capability, PL/pgSQL, which is very similar to Oracle's PL/SQL. This can simplify data entry and automate functions. I wrote a function, `add_story`, which adds a story and its main character, listed in one of the sidebars.

```
select add_story( 'Agatha Christie', 'The Tuesday Night Club', 'Jane Marple', 12 ) from dual;
```

With additional work, this function could add multiple characters.

Programming APIs

All of the above commands were executed in the Terminal, using the `psql` client program. For an end-user application, Terminal is probably not an acceptable user interface. There are some folks who have written user-friendly front-ends for PostgreSQL for the Mac; a search on versiontracker.com should turn up some. For simple applications, these may do the trick; but, as I mentioned, PostgreSQL is not really an engine for simple applications.

A C API, called "libpq", is available for programming applications which access PostgreSQL databases. It should be possible to use this API from Cocoa, since Cocoa allows use of straight C; however, I haven't tried this as yet.

PostgreSQL also supports use of Java Database Connectivity (JDBC), for cross-platform applications written in Java. Java works well on the Mac, and applications written in Java can be moved in binary ("jar file") form and run on Windows, Solaris and other systems. Java's GUI, "Swing", supports most "widgets" and can produce programs with acceptably attractive user interfaces.

Compared to Oracle and others?

PostgreSQL is sometimes called the poor man's Oracle. A lot of the features that Oracle programmers use regularly have been implemented in irritatingly different ways, though, or are still missing from PostgreSQL. Another concern, when considering large databases, is the "object ID", which is currently a 32-bit integer which must uniquely identify all objects which exist and have ever existed in the database. Four billion objects may seem like a lot, but large databases often have a billion rows or more in a single table. (A 64-bit G5 version may eliminate this concern.) For an enterprise-level database, PostgreSQL's tools are weak, too.

MySQL is often mentioned in comparison with PostgreSQL; but MySQL is targeted at a different type of application. MySQL is very fast, but only allows very simple SQL, no subqueries. It is often used in web sites where data is actually maintained and updated by other means. MySQL does its particular

Sidebar – Why a relational database?

With all the "geekspeak" and complexity in this article, you must wonder, why not just use FileMaker or HyperCard? They have built-in forms and reports capability, they're graphical and easy to use. However, such flat-file databases fall down in multiuser environments. Further, they lack the *relational* capability.

A relational database allows joins, or relations, between different tables. This allows the tables to be *normalized*. "Normalization" means that each given piece of data exists in only one place.

In the database I set up in the main text, notice that each author's name exists in one place only. If I wish to change "Agatha Christie" to "Agatha Christie Mallowan", I need to edit one record only, and all of my queries and reports will automatically get the updated data. In a FileMaker or HyperCard database, I'd have to select all the records with "Agatha Christie" on them, and update all of them - and if I make a typo, a record might become forever invisible.

Relational databases usually also separate the user interface from the storing of data. The DBMS (database management system) concentrates solely on effective storage and retrieval of data. Big Oracle and DB2 databases often grow into billions of records.

Sidebar - Data Definition Language (DDL) for Authors database

```
create table authors (
  author_id serial,
  name varchar( 40 ) );

create table stories (
  story_id serial,
  author_id int not null,
  title varchar( 40 ),
  length int,
  review int,
  comments varchar( 40 ) );

create table characters (
  character_id serial,
  author_id int not null,
  name varchar( 40 ) );

create table characters_in_stories
(
  story_id int not null,
  character_id int not null );
```

Sidebar - Data Modification Language (DML) for Authors database

```
- insert data for authors

insert into authors ( name ) values( 'Agatha Christie' );
insert into authors ( name ) values( 'Rex Stout' );

- insert data for stories

insert into stories ( author_id, title,
length, review, comments )
select author_id, 'A Pocket Full of Rye',
186, 5, 'Very good' from authors
where name = 'Agatha Christie';
insert into stories ( author_id, title,
length, review, comments )
select author_id, 'Funerals are Fatal',
186, 5, 'Very good' from authors
where name = 'Agatha Christie';

- insert data for characters

insert into characters ( author_id, name )
select author_id, 'Hercule Poirot' from
authors where name = 'Agatha Christie';
insert into characters ( author_id, name )
select author_id, 'Jane Marple' from au-
thors where name = 'Agatha Christie';

- insert data for characters_in_stories

insert into characters_in_stories (
story_id, character_id )
select story_id, character_id from sto-
ries, characters
where stories.title = 'A Pocket Full of
Rye'
and stories.author_id =
characters.author_id
and characters.name = 'Jane Marple';

insert into characters_in_stories (
story_id, character_id )
select story_id, character_id from sto-
ries, characters
where stories.title = 'Funerals are Fa-
```

job very well, and it's often the best tool for the job.

PostgreSQL is growing into a more capable, universal DBMS. It will eventually become comparable to Oracle - quite possibly, much better. It's usable today, but watch out for its quirks, and don't plan on tables becoming very large.

Conclusion

Mac OS X's Unix base means that Macs can now become solid players in enterprise business systems, and its Mac heritage gives us powerful tools for graphics and publishing. PostgreSQL may become a big part of the Mac's future.

Where to get PostgreSQL?

You can find PostgreSQL at Sourceforge or at Versiontracker. I downloaded the software from: <http://www2.entropy.ch/download/pgsql-7.3.3.pkg.tar.gz>

Detailed instructions are at:

<http://techdocs.postgresql.org/installguides.php#macosx> ■

```
tal'
    and stories.author_id =
characters.author_id
and characters.name = 'Hercule Poirot';
```

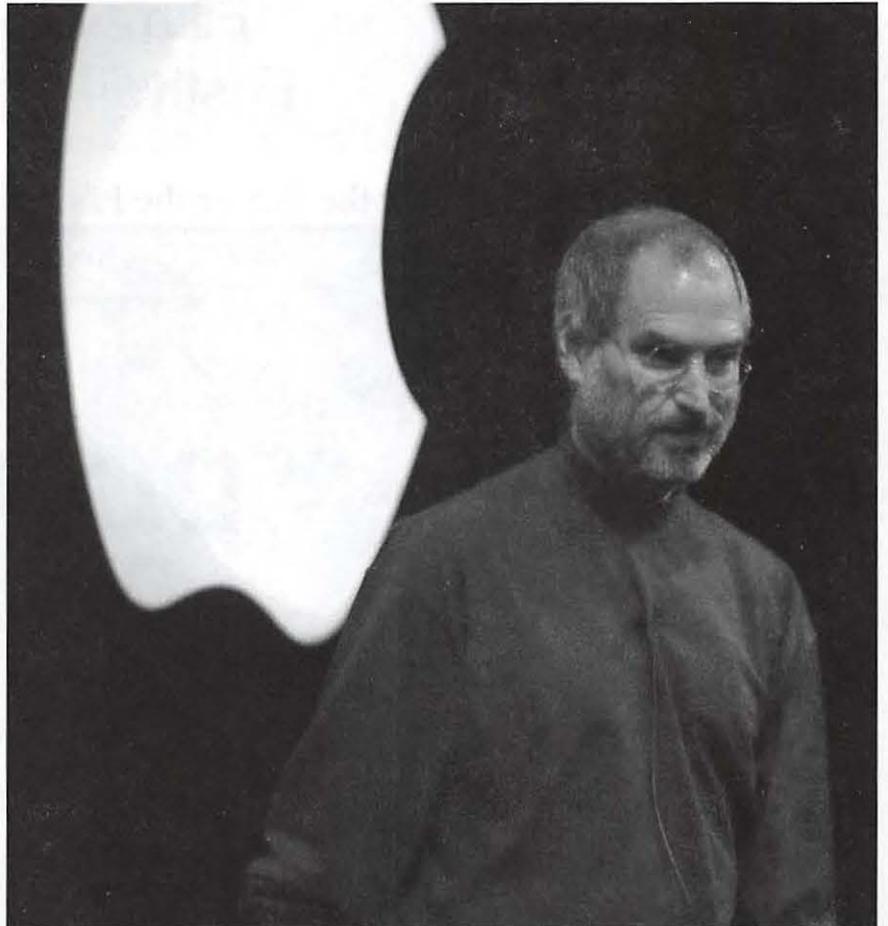
Sidebar - PL/pgSQL function for adding a story

```
create or replace function add_story(
varchar, varchar, varchar, int ) returns
int as `
declare
    v_author alias for $1;
    v_title alias for $2;
    v_character alias for $3;
    v_length alias for $4;
begin
    insert into stories ( author_id, title,
length, review, comments )
    select author_id, v_title,
v_length, null, null from au-
thors
    where name = v_author;
        insert into
characters_in_stories (
story_id, character_id )
    select story_id, character_id
from stories, characters
    where stories.title = v_title
    and stories.author_id =
characters.author_id
    and characters.name =
v_character;
    return 1;
end;
` language `plpgsql`;
```

Sidebar - Java code snippet for accessing PostgreSQL

```
try {
DriverManager.registerDriver(
    new org.postgresql.Driver());
    Connection db =
DriverManager.getConnection(
    "jdbc:postgresql:postgres",
    "postgres", "" );
```

```
Statement stmt = db.createStatement();
ResultSet rset = stmt.executeQuery( s
);
if( rset == null ) {
    System.out.println( "rset is
null" );
} else while( rset.next() ) {
    String s2 = rset.getString( 1
);
    System.out.println( s2 );
}
rset.close();
stmt.close();
} catch( SQLException e ) {
    System.out.println( "exception: " +
e.getMessage() );
} ■
```



Over the years, Apple CEO Steve Jobs has come to look more and more like former Pi President Lorin Evans. Lorin has a passion for computer recycling; Steve is a vegan, but otherwise they are beginning to look like twins... (Photo by Craig Contardi, taken with an Olympus C2100UZ digital camera.)

washington **A**pple pi general meetings

9 a.m.-noon

Northern Virginia Comm. College
Community & Cultural Center Aud.
8333 Little River Turnpike
Annandale, VA

March 27, 2004

The
Electric
Pi

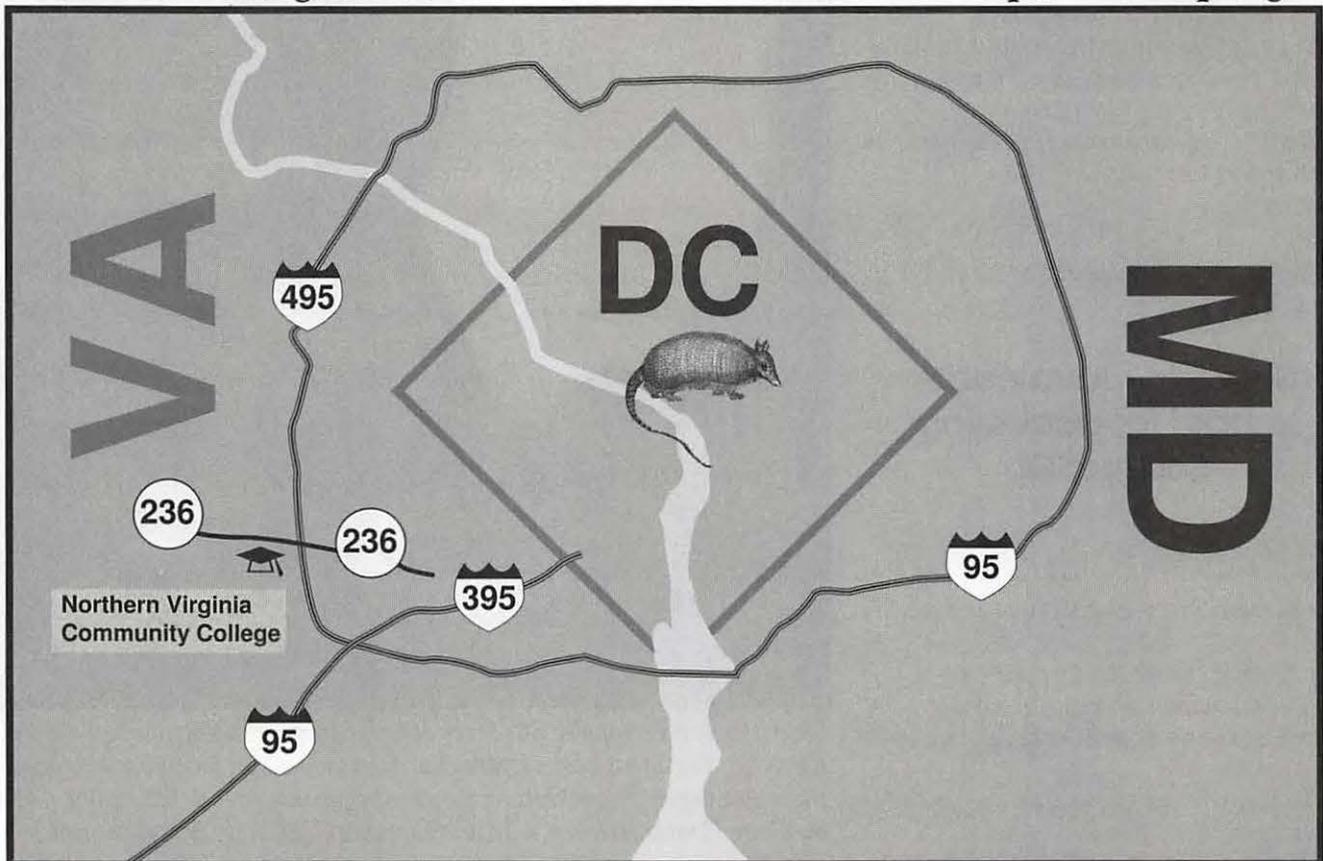
April 24, 2004

Pi
Film
Festival

Getting to NoVa:

take Exit 52 West
onto VA 236
(Little River Turnpike)
SW of the armadillo

For schedule changes check the TCS or the Pi's Website at <http://www.wap.org/>



Digital Fortress

review by John Barnes © 2004

AUTHOR DAN Brown has caused quite a stir with his *Da Vinci Code*. An all-night session with that book inspired me to see if its author had any more page-turners in his portfolio. I had already devoured *Angels and Demons* and was ready for a bit more light, but fast-paced reading. Brown's bibliography at Amazon.com yielded *Digital Fortress* along with the two better-known works and a new one that will just have to wait a while.

I have no idea how many times I have passed this book by since its appearance in 1998. I often seek out an action thriller to read on a plane trip or a sleepless night in a hotel bed in a strange city. Such things almost always disrupt my sleep patterns and a night with a page-turner is usually enough to ensure a good sleep on the second night. I found *Digital Fortress* on the trade paperback shelves of the local Giant supermarket and picked it up.

Okay, that's the lead-in story. Why you ask, should anyone review a novel in the *Pi Journal*? Quite simply this particular book is almost pure geek. Encryption is the central theme of the story. The moving forces include ultra-secret fantastic hardware located at the National Security Agency Puzzle Palace at Fort Meade, a luscious heroine with both brains and hormones, any number of people with an overweening lust for power, a goodly dose of murder, and a hero who is capable of astounding feats while trying to stay alive.

The story begins when an alienated genius formerly in the employ of the NSA publishes a document that has been encrypted by a supposedly unbreakable code. The document is accompanied by a threat to expose the true scope of NSA's nefarious code-breaking to the world. NSA's fantastic supercomputer is put to work on testing the encryption scheme and the action picks up from there as our lovely and brilliant heroine is dragged into the effort to frustrate the blackmailer's scheme..

The heroine's NSA mentor has been on the case for some while and has been actively dispatching agency resources to pursue the inventor of the code and to retrieve the key if that is

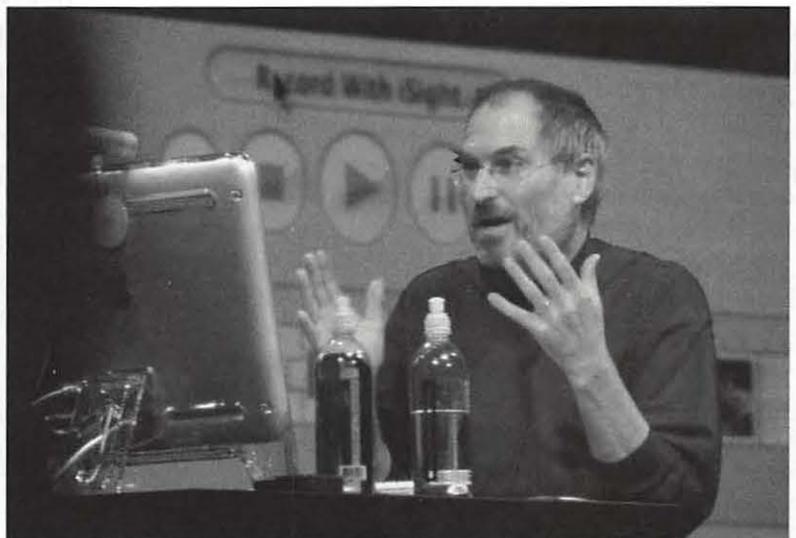
possible. One of those resources is the heroine's lover, a Georgetown linguistics professor who slowly discovers a bit of Indiana Jones in his blood.

NSA efforts to insert "backdoors" into encryption schemes are a recurrent theme here. NSA claims (in the book at least) that such devices are needed to guard against terrorism. This is an even more timely concern than it was in 1998, but the book's "Who will Guard the Guardians" subtext will undoubtedly resonate with those, like this reviewer, who are skeptical of the Patriot Acts.

Angels and Demons and the *Da Vinci Code* skillfully exploit the dark concerns of many people who feel that established Christianity has been conspiring to maintain its temporal power by sacrificing godliness. The Harvard professor of "religious symbolology" who is the hero of those two books deciphers the meaning behind many arcane objects, some of them quite beautiful, for us. Fascination with the nature of the early Church is widespread these days and Brown has used it to climb the bestseller charts.

He was just cutting his teeth on the action thriller genre with *Digital Fortress*, but he succeeded in drawing me from one end of the book the other in a single sitting. Twists and turns are Brown's stock in trade and he paces their unveiling in a manner that is properly sinister, but with an "ah ha" climax that reveals human foibles without particularly demonizing them.

To say any more would reveal some plot twists that are better left for the reader to discover. I won't claim this is Pulitzer Prize literature, but it is a jolly good read. ■



Steve Jobs in a not-so-rare moment of excitement about the great new functionality in iLife '04 during his Macworld San Francisco keynote address. (Photo by Craig Contardi, taken with an Olympus C2100UZ digital camera.)

Best of the TCS: Lord of the Rings

AS ALMOST EVERY Mac fan knows, the epic movie trilogy *Lord of the Rings* was created using Apple Shake, an advanced digital compositing package, and much of the animation was designed on Macs. Less well known is the extensive use of iPods for passing scenes back and forth between the shooting location in New Zealand and director Peter Jackson's home in London; production crew members estimate as much as half a terabyte (500 billion bytes) of film footage were transferred using iPods.

But the connection between Lord of the Rings and Macs goes back much farther. Actually, it technically isn't a Mac connection at all, but goes back to Mac OS X's UNIX roots, as mentioned on these two brief TCS postings:

LC: Open up Terminal and then paste in this string:

```
cat /usr/share/calendar/calendar.history | grep "LOTR"
```

```
JT: >> cat /usr/share/calendar/calendar.history | grep "LOTR"
```

The same thing, normalized/simplified:

```
grep LOTR /usr/share/calendar/calendar.history
```

Either way, kinda cute. And shows what sorts of people developed Unix. This file exists to provide a little "On this day in history..." blurb when logging into a system: "Welcome, Lawrence, you have mail, today is Charro's birthday and the anniversary of the Battle of Hastings."

OK, so what happens if you actually try this?

Using either Mac OS X 10.2 or Mac OS X 10.3 (earlier versions weren't available for testing), open up the Terminal application (found in Applications>>Utilities) and type in either command shown above. You should get a listing that looks like this (assuming your name is Frodo):

```
[hobbiton:~] frodo% grep LOTR /usr/share/calendar/calendar.history
```

01/05 Fellowship enters Moria (LOTR)

01/09 Fellowship reaches Lorien (LOTR)

01/17 Passing of Gandalf (LOTR)

02/07 Fellowship leaves Lorien (LOTR)

02/17 Death of Boromir (LOTR)

02/20 Meriadoc & Pippin meet Treebeard (LOTR)

02/22 Passing of King Ellesar (LOTR)

02/24 Ents destroy Isengard (LOTR)

02/26 Aragorn takes the Paths of the Dead (LOTR)

03/05 Frodo & Samwise encounter Shelob (LOTR)

03/08 Deaths of Denethor & Theoden (LOTR)

03/18 Destruction of the Ring (LOTR)

03/29 Flowering of the Mallorn (LOTR)

04/04 Gandalf visits Bilbo (LOTR)

04/17 An unexpected party (LOTR)

04/23 Crowning of King Ellesar (LOTR)

05/19 Arwen leaves Lorian to wed King Ellesar (LOTR)

06/11 Sauron attacks Osgilliath (LOTR)

06/13 Bilbo returns to Bag End (LOTR)

06/23 Wedding of Ellesar & Arwen (LOTR)

07/04 Gandalf imprisoned by Saruman (LOTR)

07/24 The ring comes to Bilbo (LOTR)

07/26 Bilbo rescued from Wargs by Eagles (LOTR)

08/03 Funeral of King Theoden (LOTR)

08/29 Saruman enters the Shire (LOTR)

09/10 Gandalf escapes from Orthanc (LOTR)

09/14 Frodo & Bilbo's birthday (LOTR)

09/15 Black riders enter the Shire (LOTR)

09/18 Frodo and company rescued by Bombadil (LOTR)

09/28 Frodo wounded at Weathertop (LOTR)

10/16 Boromir reaches Rivendell (LOTR)

10/17 Council of Elrond (LOTR)

10/25 End of War of the Ring (LOTR)

11/16 Bilbo reaches the Lonely Mountain (LOTR)

12/05 Death of Smaug (LOTR)

12/16 Fellowship begins Quest (LOTR)

```
[hobbiton:~] frodo%
```

You've just asked your Mac to look for the string of characters "LOTR" inside a file called calendar.history, and to print to the screen every line in the file that contains those characters.

Your Mac, sadly, doesn't know Charro's birthday, but it does know Isaac Asimov was born in Petrovichi, SFSR on Jan. 2, 1920, and that the Battle of Hastings took place on October 14, 1066. It even knows who won the battle. ■

**OUTSTANDING
DISCUSSION**
<http://tcs.wap.org>



Using the TCS Message Boards to Communicate with Members of the Pi

by Richard A. "Dick" Rucker

AT THE PI meeting in January, I listened to a member who said he never uses the *TCS Bulletin Board System (BBS)* because he found it too confusing. This BBS is the one used by some, but by no means all, Pi members to chat, learn, have fun, as well as to solve all sorts of problems that members have from time to time with their Macs, the software running on them, or the peripherals attached to them. Its *Universal Resource Link (URL)* is <http://tcs.wap.org>



The TCS BBS, along with the Pi's website at <http://www.wap.org>, is one of my favorite watering holes on the Web. There are too many interesting discussions going on there to ignore it, and when I need Mac help, it's often the first place I look or ask.

Most users refer to the Pi's BBS as simply "the TCS," because it's the part of the Pi's *TeleCommunications System (TCS)* that is visible to most of us. In fact, the header of any window you open within that BBS has the TCS emblazoned across the top.

Getting started

It's been so long now since I logged onto the TCS for the first time, that I don't remember the details. I do remember that what threw me at first was that, by default, it seemed to think I wanted the opportunity to read through all messages on all topics that it had in its archives. Actually, all I wanted to do was to get started by reading just the new messages posted on fresh topics found in just a few of the TCS's numerous message boards.

It was then I discovered *Preferences*, or the Prefs page, where I could select a tab labeled "The Pi" and there select which message boards within the *Pi Conference* I wanted to read new messages from, then select the tab labeled "Computing" and there do the same thing for the *Computing Conference*, and then do the same thing under tabs labeled "Interests" and "Classifieds" for the remaining conferences. There was also a way to limit how far back the message server would look for messages in any of these boards; e.g., one day, one week, ... forever, but it's been so long since I've used it, I don't remember the details.

This article is meant to urge you to jump right in the pool and worry about details later, so here goes...

Corresponding with other Pi members using the TCS

I'm writing this article while I look at a TCS window using my favorite web browser, Apple's *Safari*. At top-left of the page is this notation:

[Menu](#) >> [Computing](#) >> [Digital Music](#) >> IPOD and your stereo

This shows I started at the main "Menu" page, clicked on the "Computing" conference, looked down through a list of message boards in that conference identified by subject, and there I found and clicked on "Digital Music." That action brought to me a list of message subjects posted on the Digital Music board. I clicked on the message subject "IPOD and your stereo" and that's the page that I'm looking at now.

Be aware that any underlined word in blue type on a TCS page is a clickable link. If it is, say, the heading of a column in a tabular list, clicking on it will sort the line entries in that list according to the values in that column. If

it is, say, the name of a subject in a list of subjects, then clicking on it will take you to the starting page where messages discussing that subject can be read and replied to.

Also notice that on any page that lists a number of line entries, if there are more entries to display than the list can hold, the page number of each displayable page appears at the bottom of the list, along with "next page" and "previous page" arrows.

So, in the line above, clicking Menu will take you back to the BBS's main menu, clicking Computing will take you back to the Computing Conference's menu, and clicking Digital Music will take you back to its list of clickable message subjects.

Reading messages in a thread of messages

The Digital Music index presented me with a list of 20 clickable subjects that, when trimmed down to just my chosen subject, looks just like this:

Subject	Date	From	Msgs	Latest
<u>IPOD and your stereo</u>	01/26/04	Nancy Schultz	6	01/28/04

I've simplified it to show only the "Date" of initial posting by Nancy Schultz and the date of the "Latest" reply to it. In fact, both the date and time are shown for these items on the actual page. Msgs shows that there are now 6 messages posted under this subject, the latest on January 28.

Clicking on the underlined subject took me to a page that started out like this:

Subject: IPOD and your stereo
6 messages over a period of 31 hours ended 8 days ago

Hide reply history

- Nancy Schultz #384
- Albert Lubarsky #385
- Richard Sternberg #386
- Blake Lange #387
- Lawrence Charters #389
- Jon Thomason #395

All the items in this list are direct replies to Nancy's message. If Lawrence Charters had replied to Blake Lange's message #387 instead, Lawrence's name and message number, would be indented under Blake's line entry.

All of the line items in the list are clickable links, even though, for clarity, they're not underlined above. Click on "Hide reply history," and the list will disappear leaving a single clickable item "Show reply history."

The history list shows that Nancy Schultz started this thread with her message #384, a unique number assigned to it by the BBS software. The other lines listed below Nancy's message identify those members who have replied so far to Nancy, along with the message number on their reply.

Nancy's opening message looks like this:

IPOD and your stereo #384; 4 replies
FROM: Nancy Schultz Digital Music
TO: All 06:45 PM Monday, Jan 26, 2004

Does anyone know if IPod can be played over your stereo system (or speakers etc.)?

[Top](#)

[Post a reply](#)

Clicking on Top at the bottom of any message takes you back to the initial message in the thread; in this case, that's Nancy's message.

Posting a Message on a New Subject

Nancy posted her message on the new IPOD subject by going to the Digital Music page and clicking on Begin a new topic in the upper right hand corner of the page. This caused Nancy's web browser to present her with a new page containing these data entry fields:

Subject:
To:
Private: <a check box>
[message body]

If she checks on Private, the existence of this message and its contents will be revealed only to the addressee, if known to the system, and to the sender.

Replying to a posted message

Clicking on Post a reply takes you to a new page that gives you a window to type in, along with a copy of the message that you're replying to reprinted below for easy reference. The rest is self-explanatory.

The reply page has a nifty "quoter" window that you can paste a selection of text into, then push its button, to get it to tidy up your selection. It will also precede each line with the > character, indicating that this text was taken from a preceding message. Copy the result and paste it into your typing window and proceed with your reply.

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Beltsville MD 20705
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For an example of this, see Albert Lubarsky's reply to Nancy's initial message:

IPOD and your stereo #385 in reply to #384
FROM: Albert Lubarsky Digital Music
TO: Nancy Schultz/all 06:52 PM Monday, Jan 26, 2004

> Does anyone know if IPod can be played over your stereo system
> (or speakers, etc.)?

To connect it to your stereo system, a cable with headphone jack on one end and a pair of RCA plugs on the other should work just fine. If you want to use just speakers, you'll probably need "self powered" ones that are designed for players. You'll find some ideas on Apple's iPod web page. Al

[Top](#)

[Post a reply](#)

OK so far? Let's quickly read the rest of the messages in the thread as of the day I typed this article:

IPOD and your stereo #386 in reply to #384
FROM: Richard Sternberg Digital Music
TO: Nancy Schultz/all 06:54 PM Monday, Jan 26, 2004

I frequently play mine over powered speakers, like those used in computer upgrades and for mini system stereos. The earbud jack works as a normal auxilliary source input for regular systems that accept the jack size, and there are jack size converters out there in case it doesn't fit.

Of course, you can also use one of the many FM converters, like the iTrip, to play the iPod through the FM receiver of your stereo, but there are significant losses in music quality.

- Richard

[Top](#)

[Post a reply](#)

IPOD and your stereo #387 in reply to #384
FROM: Blake Lange Digital Music
TO: Nancy Schultz/all 09:36 PM Monday, Jan 26, 2004

I have the iPod in a dock connected to my BOSE Accoustic Wave on a table in my living room. Very inconspicuously I now have my entire music collection available to enjoy at the touch of a button. Thank you Apple!

[Top](#)

[Post a reply](#)

IPOD and your stereo #389 in reply to #384; 1 reply
FROM: Lawrence Charters Digital Music
TO: Nancy Schultz/all 12:35 PM Tuesday, Jan 27, 2004

> Does anyone know if iPod can be played over your stereo system (or
> speakers etc.)?

I'm on convalescent leave right now, and when I get tired of my radio, I plug my iPod into the AUX jack and it plays along splendidly.

If you had something more exotic, it should work fine. You probably need to find a mini-photo to phono cable; Radio Shack sells it, as do some of the CompUSA stores in their Mac sections.

- Lawrence

[Top](#)

[Post a reply](#)

IPOD and your stereo
FROM: Jon Thomason
TO: Lawrence Charters/all

#395 in reply to #389
Digital Music
02:41 AM Wednesday, Jan 28, 2004

>> You probably need to find a mini-photo to phono cable; Radio Shack sells it, as do some of the CompUSA stores in their Mac sections.

As does the Apple Store, and I'm sure MacUpgrades. Though cheapo Radio Shack ones are plenty suitable to the task. The special white woven Monster Cable ones, made specifically for the iPod, are wacky (but pretty) overkill. /;+/

[Top](#)

[Post a reply](#)

Musician John Mayer, best known for his guitar talent, demonstrates the MIDI capabilities of GarageBand at Macworld San Francisco. (Photo by Craig Contardi, taken with an Olympus C2100UZ digital camera.)



If you're curious about that strange smiley at the end of Jon's message, keep in mind that his initials are J T.

Some Observations

Keep in mind that the TCS message boards are archived, so that this message thread will remain available for some time to come. If you belatedly happen on the thread above three years from now, you can still post a reply to it and your reply will show up in the queue for anyone who has chosen to be informed about message updates to the Digital Music message board.

If you find yourself reading a message out of context; i.e., the full message thread isn't visible to you, just click on the number of the message being replied to and you'll be shown a page that displays all the messages in the thread. On occasion, these can be pretty long, so print them out at your peril!

If you do want to print just a few pages out of a very long thread of messages, the best way is to issue the Print command, then click on the Preview button of the printing dialog, which (in my browser) launches Apple's Preview application. Preview's right-hand drawer shows me a thumbnail of every printed page. Clicking on any one of those thumbnails presents me with a zoomed-in view that is quite readable. From there, I can quickly pick the first and last page numbers of interest, put those two numbers into Print command's dialog box, and then print just the pages I want.

As Steve Jobs says, "There's just one more thing..."

These are the clickable buttons at the bottom of every TCS window.

[Menu](#) | [The Pi](#) | [Computing](#) | [Interests](#) | [Classifieds](#) | [Prefs](#) | [Help](#) | [Sign Out](#)

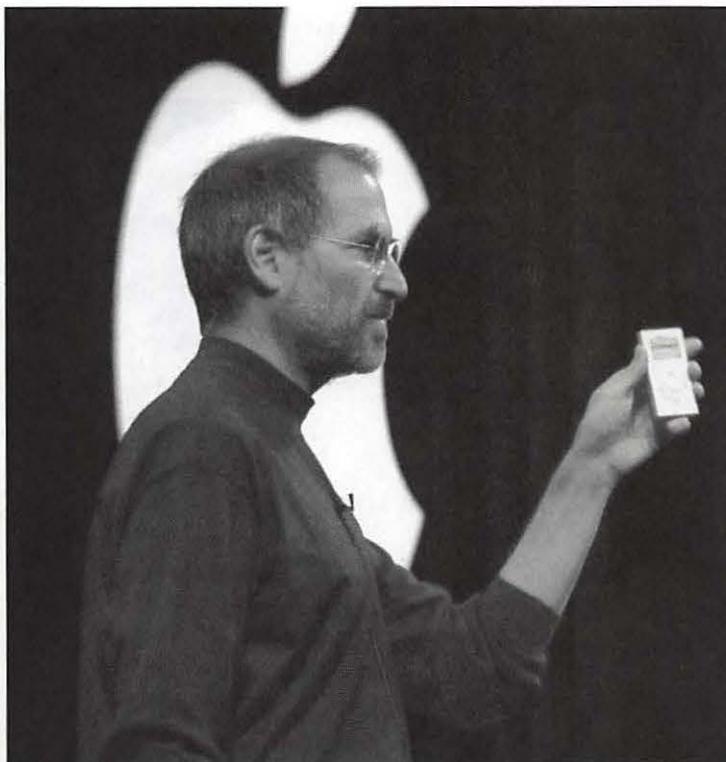
Log onto the TCS and click on each one in turn to see where it takes you. Go ahead! Keep in mind that you can't break anything, and you can always go back to where you started by clicking on your browser's "back button."

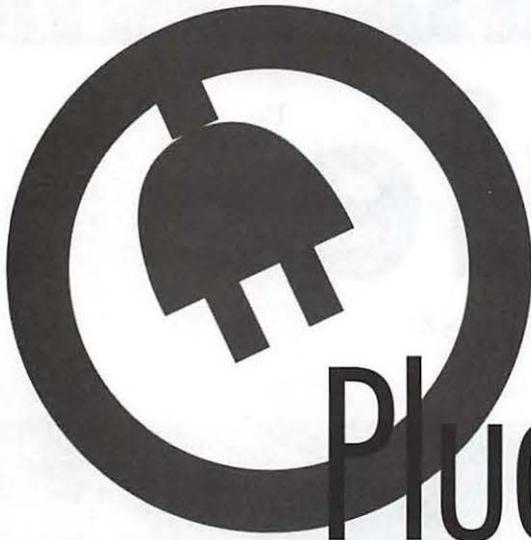
On the Preferences page, click on each tab and examine what you find there. It's intended to be self-explanatory. If it isn't, post your question to *Pi TCS Support* board within *The Pi* conference. You're sure to get a prompt reply by someone who knows.

See you on the TCS!

Dick ■

Steve Jobs shows us what happens when you accidentally leave an iPod in a jacket that's been through a laundry cycle. (Actually, he's really showing off the brand-new iPod Mini at its Macworld San Francisco debut.) (Photo by Craig Contardi, taken with an Olympus C2100UZ digital camera.)





Plugged in **PI**

Washington Apple Pi is more than just the *Journal* arriving in your mailbox. It also offers exciting General Meetings and Special Interest Group (SIG) meetings, special events such as the semi-annual Computer Show and Sale, Internet ISP services (dial-up connections, E-mail, private Web space), has active mailing list discussions, offers one of the oldest, most active Internet forums on the planet (the ubiquitous “TCS”), and one of the oldest Web sites. **Plug in to the Pi.**

Pi calendar

<http://calendar.wap.org/>

Pi Web mail

<http://mail.wap.org/>

Pi store

<http://store.wap.org/>

Pi forums

<http://tcs.wap.org/>

Pi Web site and portal

<http://www.wap.org/>

Washington Apple Pi presents:

iMovie™

Fun, Fantastic and Free*

Feature length productions, home movies, corporate videos... iMovie has been used to tackle all sorts of projects. Come join Washington Apple Pi as we explore this powerful, easy to use software for editing digital video. We'll learn about all the things that iMovie can do as well as its limitations.

WAP members will share their tips and tricks for creating compelling presentations with iMovie. Of course we'll also have plenty of sample movies from our membership as inspiration for your next project.



**Saturday, April 24, 2004
9AM - Noon**



Do you have a movie created with iMovie that you'd like to share with the group? Let the meeting coordinator, Paige Counts know by e-mailing her at paige@virginiarealtour.com

Northern Virginia Community College
Annandale Campus
in the Cultural Center
8333 Little River Turnpike
Annandale, VA 22003-3796

**Admission is free.
Everyone is welcome!**

**For more information:
<http://www.wap.org/>
vpvolunteers@wap.org**

* iMovie 4 is available free with any new Macintosh Computer. Previous versions of iMovie have been available as a free download. The current version, iMovie 4 is available for purchase as part of iLife and retails for \$49. Washington Apple Pi is not affiliated with Apple Computer, the manufacturer of iMovie.

Meeting Notices

Annapolis Slice

3rd Saturday; 9:30 AM; Severna Park Library on McKinsey Rd. (off Rt. 2), Severna Park, MD
Answering Machine: (410) 647-5605

Columbia Slice

1st Thursday; 7:00 PM. Call for location
BBS (410) 964-3706
www.wap.org/columbia/default.html

DataBases (Mac) SIG

Volunteers needed to restart this SIG

Frederick Slice

General meeting time, 2nd Saturday; 10:00 AM;
United Methodist Church; 22 Main Street in Walkersville.
www.wap.org/frederick/default.html

Genealogy SIG

Volunteer needed to restart SIG.

Graphic Arts SIG

2nd Saturday of the month, 10AM-12 noon, at Mac Business Solutions, 9057 Gaither Road, Gaithersburg
www.wap.org/gasig/default.html

iMovie SIG

2nd Thursday of the month, 7:00 PM, WAP office.
Contact: Hal Cauthen at ChgrHorse@aol.com

Power User SIG

1st Monday of the month, 7:30 PM, WAP Office
Contact: John Barnes at jdbsci@speakeasy.org
www.wap.org/power/default.html

Retired SIG

3rd Friday of each month; 9:30 AM till 12 noon normally at the WAP office. Each meeting will have a topic, but be run informally.
www.wap.org/retired

Teen SIG

1st and 3rd Thursdays of the month, 6:30 PM to 8:30 PM, WAP Office. Contact: Will Byrd at emacs_groks@yahoo.com

Virtual SIGs:

Apple II Information:

www.wap.org/ape2/forever.html

Apple III Information:

www.wap.org/ape3/default.html

iMac Information:

www.wap.org/events/imacinfo.html

WAP Garage Sale— June and December

WAP General Meeting

4th Saturday; 9:00 AM; Northern Virginia Community College, Annandale Campus, Community Cultural Center Auditorium.

Inactive SIGS

If you are interested in restarting any of these SIGs contact the office.

AOL SIG

Apple III SIG

Excel SIG

FileMaker Pro SIG

Game SIG

Mac Programmers' SIG

Newton Developers' SIG

NoVa Education (Ed) SIG

QuickTime SIG

Stock SIG

Telecomm SIG

Women's SIG

Notice: Plans change! Anyone with calendar information please call the Calendar Editor, WE NEED A VOLUNTEER, or the WAP Office (301) 984-0300.

Washington Apple Pi March 2004 Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 9:30 Mac Basics 4 - If Something Goes Wrong 10:00 Lets Burn Some CDs	2 7:00 Tuesday Night Clinic	3 9:30 Customizing Your Mac Environment 1:00 Mac OS X 3 - Using the System Preferences	4 9:30 Troubleshooting Com- puter and Printer Problems 12:45 Using the Mac OS X Classic Environment 12:45 Surfing with Safari 6:30 Teen SIG Meeting	5	6
7	8	9 7:00 Tuesday Night Clinic	10 7:30 BOD meeting	11 9:30 Mac OS X 1- The Finder, Menus and the Dock 1:00 Understanding Mac OS X	12	13 10:00 Graphic Arts SIG
14 1:30 Power Users SIG	15 9:30 Mac OS Airport Networks, Sharing... 1:00 Mac Basics The Finder, Bars,...	16 7:00 Tuesday Night Clinic	17 9:30 Getting Organized and Backing Up Your... 11:15 PDF files, Mac OS X Preview and Acrobat... 1:00 Mac Basics 2 - Introductory Word...	18 9:30 Mac OS X 2 - Users, Saving, and Finding 12:45 Using the Address Book and iCal 2:30 Using the Mac OS X Classic Environment 6:30 Teen SIG Meeting	19 9:30 Retired SIG	20
21	22 9:30 Surfing with Safari 11:15 Using Mail and the Address Book in Mac OS X 1:00 Mac Basics 3 - Folders, Views,	23 7:00 Tuesday Night Clinic	24 9:30 Using the Address Book and iCal 11:15 Using the Mac OS X Classic Environment 1:00 Mac Basics 4 - If Something	25 9:30 Mac OS X 3 - Using the System Preferences 1:00 Troubleshooting Computer and Printer Problems 7:30 Programming SIG	26	27 9:00 General Meeting
28	29 9:30 Web Pages with iPhoto, iDisk and...	30 7:00 Tuesday Night Clinic	31 9:30 Getting the Most from Your .Mac Account			

Washington Apple Pi April 2004 Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 9:30 Understanding Mac OS X 1:00 Installing Mac OS X on an Older Mac 6:30 Teen SIG Meeting	2	3
4 Daylight Saving Time Begins	5	6 7:00 Tuesday Night Clinic	7	8 9:30 Mac OS X 1- The Finder, Menus and the Dock 1:00 Installing Updates, Downloads, and...	9	10 10:00 Graphic Arts SIG
11 1:30 Power Users SIG	12 9:30 Mac Basics 1 - The Finder, Menu Bars,... 1:00 Mac OS X 1- The Finder, Menus and the Dock	13 7:00 Tuesday Night Clinic	14 9:30 Mac Basics 2 - Introductory Word... 1:00 Mac OS X 2 - Users, Saving, and Finding 7:30 BOD meeting	15 Tax Day 9:30 Mac OS X 2 - Users, Saving, and Finding 1:00 Introduction to Spreadsheets 6:30 Teen SIG Meeting	16 9:30 Retired SIG	17
18	19 9:30 Mac Basics 3 - Folders, Views, Files and... 1:00 Mac OS X 3 - Using the System Preferences	20 7:00 Tues- day Night Clinic	21 9:30 Mac Basics 4 - If Something Goes Wrong 1:00 All About Printing	22 9:30 Mac OS X 3 - Using the System Preferences 1:00 Using the Mac OS X Classic Environment 3:00 Surfing with Safari 7:30 Programming SIG	23	24 9:00 General Meeting
25	26 9:30 iMovie, The Basics 1:00 Adding Transitions and Effects to iMovies	27 7:00 Tuesday Night Clinic	28 9:30 Making iMovie Title Screens 1:00 Making Slideshows with iMovie	29	30	

Washington Apple Pi May 2004 Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4 7:00 Tuesday Night Clinic	5	6 9:30 Mac OS X 1- The Finder, Menus and the Dock 1:00 Mac Basics 1 - The Finder, Menu Bars, Windows and Toolbars 6:30 Teen SIG Meeting	7	8 10:00 Graphic Arts SIG
9 Mother's Day 1:30 Power Users SIG	10 9:30 Mac OS Airport Networks, Sharing... 1:00 Mac Basics The Finder, Bars,...	11 7:00 Tuesday Night Clinic	12	13 9:30 Mac OS X 2 - Users, Saving, and Finding 1:00 Mac Basics 2 - Introduc- tory Word Processing	14	15
16	17 9:30 Using the Ad- dress Book and iCal 1:00 Using Palm based PDA and Phones with the Mac	18 7:00 Tuesday Night Clinic	19	20 9:30 Mac OS X 3 - Using the System Preferences 1:00 Mac Basics 3 - Folders, Views, Files and Finding Things 6:30 Teen SIG Meeting	21 9:30 Retired SIG	22 9:00 General Meeting
23	24 9:30 Fun With Your Scanner 1:00 Using iPhoto	25 7:00 Tuesday Night Clinic	26 9:30 How to Fix a Bad Photo 1:00 Selections and Layers in Photoshop...	27 9:30 Troubleshooting Computer and Printer Problems 1:00 Mac Basics 4 - If Something Goes Wrong 7:30 Programming SIG	28	29
30	31	7:00 Tuesday Night Clinic				

MIDI Basics for GarageBand Users

By Miguel C. Danielson, publisher of MacJams.com
Special to Washington Apple Pi

THIS DOCUMENT is intended to be a basic introduction and tutorial on the topic of MIDI, which is an acronym for Musical Instrument Digital Interface. MIDI is a protocol that was developed so that electronic instruments could communicate with each other as well as computers and other electronic devices. Through MIDI, a variety of musical information can be transmitted. MIDI is not only used to indicate what note is played, but the duration of the note, the velocity/ volume, and sometimes the "aftertouch" or other information as well. MIDI is also used to transmit non-note information such as pan, effects, track or overall volume, and the like. In essence, MIDI is a basic communications protocol used by musical instruments and computers, much like FireWire is a protocol for computers and peripheral devices like hard drives, scanners, and camcorders. Read on for all the information you need to work with MIDI and Apple's GarageBand music software.

What can GarageBand do with MIDI?

GarageBand is a comparatively simple music program. It can only accept MIDI input. That is, you can connect a MIDI device (such as a keyboard) to GarageBand and play GarageBand's instruments with it, but GarageBand won't transmit data back to the MIDI device so it plays music on the device. Nonetheless, connecting a MIDI keyboard (also known as a MIDI "controller" because it is used to control GarageBand or other music software through the MIDI protocol) to GarageBand makes for a very powerful tool in the creation of your musical compositions.

As you probably already know, GarageBand has the ability to act as a software synthesizer or play, as it calls them, Software Instruments. This means that it can emulate various musical instruments by playing back recordings of each of the respective notes of those instruments when called upon. GarageBand's Software Instruments can be controlled in a number of ways, one of which is the "onscreen keyboard" feature of GarageBand that places a floating picture of a piano keyboard on

your screen. If you click the keys on the onscreen keyboard, you'll hear the notes of the Software Instruments in your track play.

A much better way to control GarageBand's software synthesizer is with a MIDI-compatible keyboard. MIDI keyboards can either be "controllers," which means they cannot reproduce musical sounds by themselves (and thus need to be hooked up to your computer so they can play GarageBand's Software Instruments), or they can be synthesizers, which means they have the built-in capability to produce sound apart from GarageBand or any other software synthesizer. MIDI controllers are typically cheaper, when compared feature-for-feature against synthesizers, since they obviously lack much of the internal circuitry of the synthesizers.

Whether you prefer a MIDI controller or a MIDI synthesizer will depend on whether you would like to play your keyboard while not using GarageBand. If so, then you should get a synthesizer (we add that you can actually purchase hardware synthesizer "modules" which can be plugged into your keyboard to produce sound, if you decide to purchase a controller now and would like to have hardware synthesizer capabilities). If you are looking merely to work with GarageBand or other music software, then a MIDI controller will likely suit your needs just fine.

Do I need any other hardware besides a MIDI keyboard to work with GarageBand's Software Instruments?

The answer to this question depends on what kind of keyboard you have. Newer MIDI controllers and synthesizers may have built-in USB capability. If this is true for your keyboard, then you can plug it directly into your Macintosh with an ordinary USB cable. However, if you have an older MIDI keyboard, it is likely to have only MIDI-format inputs and outputs. Since Macs do not have MIDI input/output jacks built-in, you will need a piece of hardware called a MIDI Interface to serve as a middleman between your MIDI keyboard and your Macintosh.

MIDI Interfaces are available in a number of configurations. Although some interfaces come with a variety of extra options, including multiple In/Out ports or audio recording capabilities, if you are a beginning MIDI user, you likely will need only a very a simple controller. If your only need is to connect an older MIDI keyboard to your Mac, then a simple "1x1" controller should suit you fine (one channel of MIDI data in, one channel out).

When considering the purchase of a MIDI-interface, one of the most important considerations is whether the

manufacturer provides quality, quick-to-market drivers for their interfaces. Since major Mac OS X updates are coming fairly frequently these days, it is important to go with a manufacturer that provides support for the latest versions of Mac OS X as quickly as possible. For this reason, we highly recommend both M-Audio and Edirol as manufacturers that have shown a commitment to supporting Mac OS X.

In particular, we think the M-Audio MIDISport Uno 1x1 (\$39.99 street price) and the Edirol UM1SX (\$39.95 street price) are great options for beginning MIDI users. The MIDISport Uno is particularly handy because it comes with built-in MIDI cables that plug directly into

your MIDI-compatible keyboard. With the Edirol and most others, you'll need to buy MIDI cables in addition to the interfaces (also available in various lengths and prices at ZZounds.com).

To demonstrate what your physical setup will look like with either a USB MIDI keyboard or a MIDI keyboard and MIDI interface, we offer these two diagrams: See Figures 1 and 2.

I've got a MIDI Adapter or a USB Keyboard: what now?

Once you've got the requisite MIDI hardware for controlling *GarageBand*, you'll next need to put some attention into getting your Mac to recognize the hardware. Current versions of Mac OS X come with MIDI support that is controlled with an application called Audio MIDI. The Audio MIDI application allows you to see a visual representation of your MIDI setup. Audio MIDI can be found in Applications → Utilities → Audio MIDI.

Before getting into Audio MIDI, however, you'll need to install the latest drivers for either your MIDI Interface or your USB-capable MIDI keyboard. The best place to get drivers for such equipment is directly through the support websites of the relevant manufacturer. Here are some quick links to the driver download pages of some common manufacturers:

- **M-Audio Drivers:** <http://www.m-audio.com/index.php?do=support.drivers>
- **Edirol Drivers:** <http://www.edirol.com/support/drivers.html>

You should download and install the most recent drivers for your model of equipment. Mac OS X will not be able to recognize your hardware unless you restart after installing. After restarting, open your Audio MIDI applica-

MIDI Setup with USB keyboard



Figure 1.

MIDI Setup with non-USB keyboard and MIDI Interface

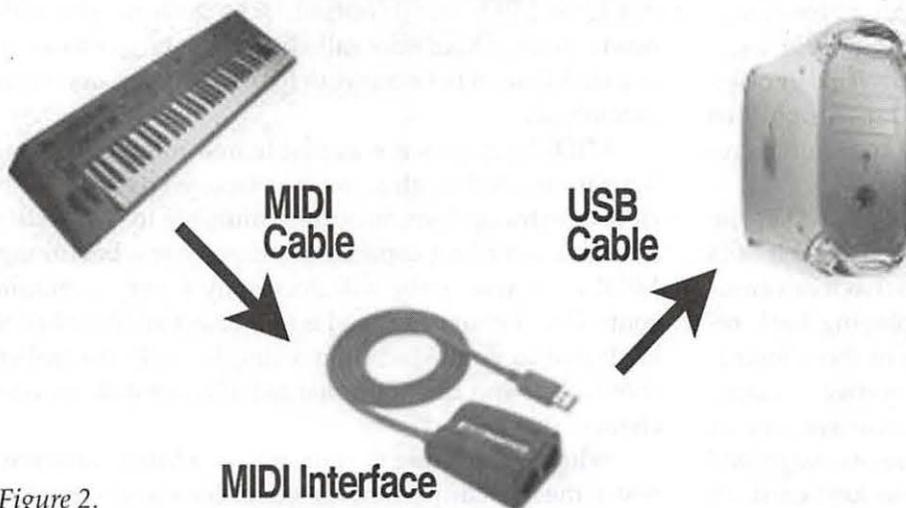


Figure 2.

tion. You should now see a representation of your MIDI interface or USB keyboard in the setup layout (remember to have your devices plugged in). If you are using a MIDI Interface you can add your keyboard to the Audio MIDI setup (though, strictly speaking, this is not necessary, since all Audio MIDI needs to know is that an interface is plugged in and that MIDI In/Out will be coming through it), you can do this by clicking the "Add Device" button and then dragging from the arrows at the top of the newly created icon to the arrows on your MIDI interface icon, creating a setup as pictured below. This should be all you need to do for *GarageBand* to recognize your keyboard. However, occasionally things can go wrong and there are a number of areas to look when something's not working. If you have difficulty, visit the **MacJams.com MIDI forum** (<http://www.macjams.com/forum/index.php?forum=3>) and we'll help out lickity split. An example of a working Audio MIDI setup with an M-Audio MIDI interface and a non-USB MIDI keyboard looks like this:

(See Figure 3, below.)

Just to be sure, we'll show you where in *GarageBand* you select your MIDI input. This setting is found in pref-

erences menu for *GarageBand*. In the preferences panel, click on "Audio/MIDI" and you'll see *GarageBand's* Audio and MIDI input settings. Note that this location is also where you can optimize *GarageBand's* performance if you have a slower computer such as a G3. An example of the *GarageBand* Audio/MIDI preference panel is shown below:

(See Figure 4, next page.)

What about the other, non-key controllers (knobs, buttons, sliders) on my keyboards?

If you have a more recent keyboard which as assignable knobs, buttons and sliders to control MIDI events, you can use some of these with *GarageBand*. Most modern keyboards feature the ability to control "pitch bend" and "modulation," which allow you to alter the sound of a note as it plays, in real time. *GarageBand* supports such features out of the box. For control over things like volume, pan, and other characteristics of your tracks, support will depend on the driver for your particular keyboard. You should refer to your manual for more information or post a message in the MacJams.com forums (<http://www.macjams.com/forum/>) about your particular keyboard.

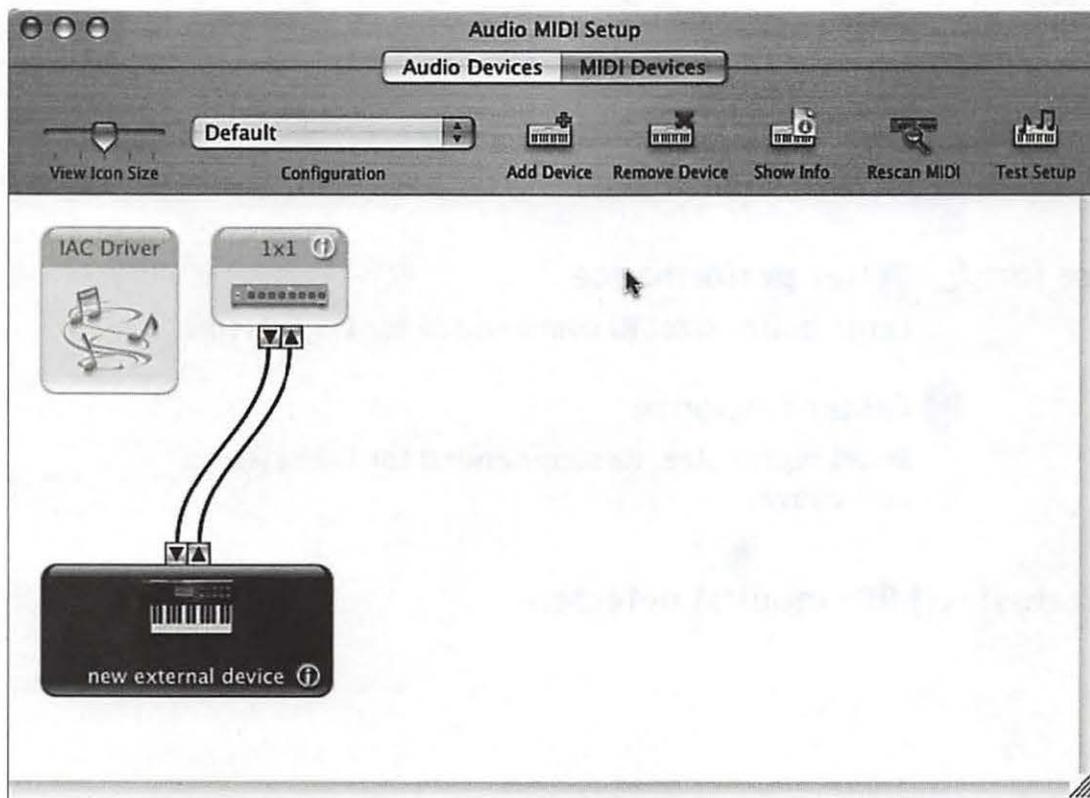


Figure 3.

My MIDI Setup is working; what now?

Now that you've got your MIDI keyboard working properly with *GarageBand* you can explore the vast collection of soft synthesizer sounds that Apple has included with *GarageBand* and/or the *Jam Pack*. If you are a musician looking to add to your repertoire, you might consider using your MIDI keyboard as a tool for other audio programs beyond *GarageBand*. Most music-oriented software today will have MIDI support in one form or another and you can use your

keyboard to perform a variety of tasks in these programs.

You may also find the following resources helpful in your use of the software instruments and *GarageBand's* MIDI support:

- Apple's "Working with software instruments" tutorial [PDF]: http://manuals.info.apple.com/Apple_Support_Area/Manuals/software/GarageBandTutorial3.pdf
- MIDI Frequently Asked Questions at SonicControl.com: <http://www.soniccontrol.com/tech/midi/faq/midi/>
- Zzounds.com — MacJam.com's preferred music discounter: <http://www.zzounds.com/a-303759>

Miguel C. Danielson is the publisher of MacJams.com, a Web site that calls itself the "Mac music maker's central." It contains a broad wealth of information on music and the Macintosh, with particular emphasis on GarageBand and iLife. Washington Apple Pi asked if we could reprint one of the articles from www.macjams.com, and Danielson not only gave us permission, but rewrote sections to better meet the needs of the Journal. He then packaged everything up in a format that endeared him to the editors. ■

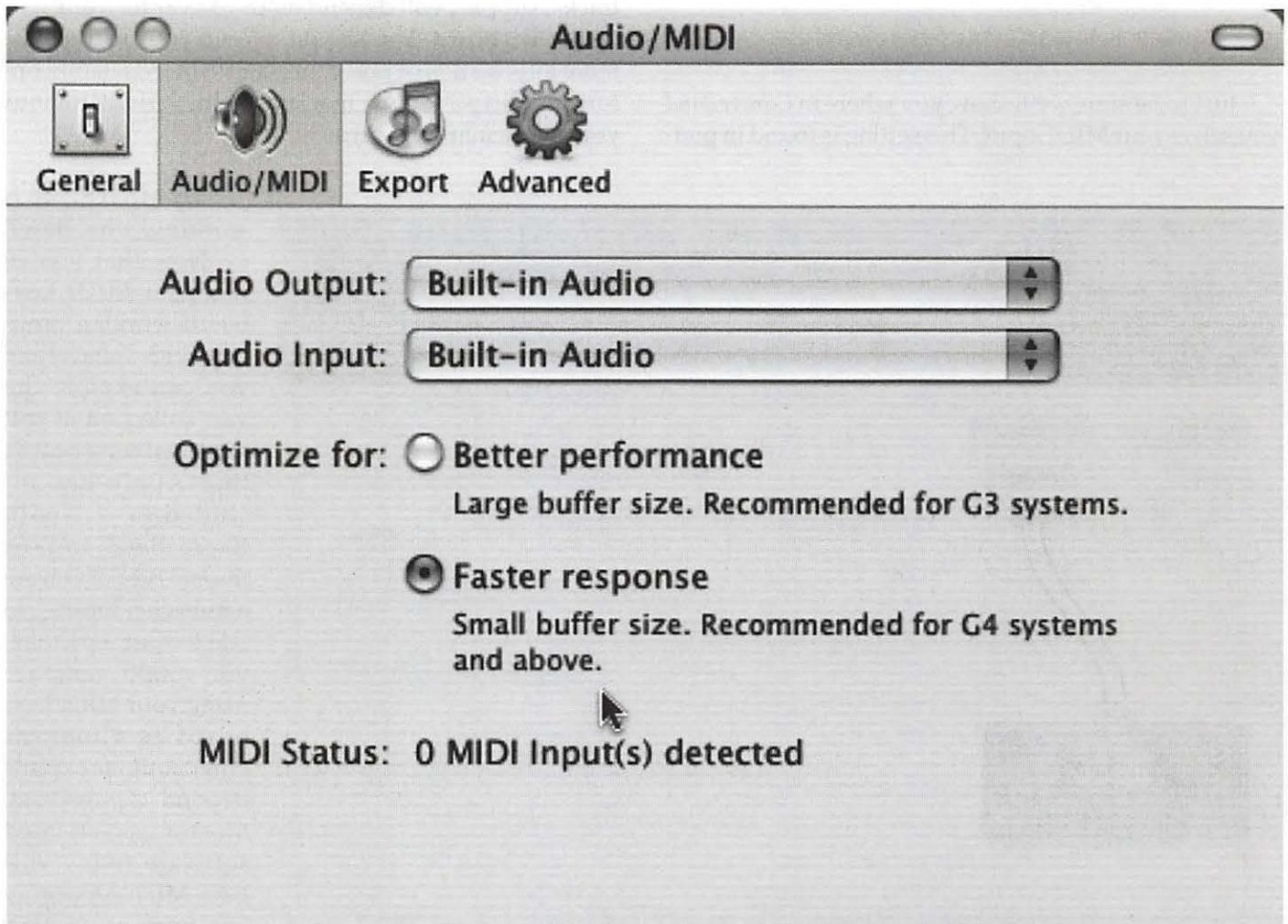


Figure 4.

Free Apple Online Seminars

by Dave Ottalini

DID YOU KNOW that Apple offers a wide range of free on-line seminars? Available 24 hours a day from any computer with Internet access, the seminars are designed to last no longer than 30 minutes. Topics cover a wide range of information - everything from "Guitarists and the Mac" to "Biotech is in our DNA." A list of recent online seminars can be found below - but you should check <http://seminars.apple.com/seminarsonline/> for the latest offerings. Apple offers a much larger list of onsite courses as well - for a price. Check <http://seminars.apple.com/> for more information.

Biotech is in our DNA.

Michael Athanas, Ph.D., of The BioTeam will show how to install a fully provisioned informatics cluster on one or more Xserve servers using iNquiry.

For more information visit <http://seminars.apple.com/seminarsonline/biotech/apple/>

Break Through the Barriers to Digital Photography Success.

Digital photography provides exciting ways to deliver new content and gain greater control over the finished product, while saving time and money.

For more information visit <http://seminars.apple.com/seminarsonline/prophoto/apple/>

Color Management for Your Digital Workflow.

This free online seminar helps demystify color management and gives you the knowledge you need to incorporate it into your workflow.

For more information visit <http://seminars.apple.com/seminarsonline/colormgmt/apple/>

Guitarists and the Mac: A Conversation with Pat Metheny

Join Pat Metheny in this free online seminar and learn how the Mac can help you take your music to the next level.

For more information visit <http://seminars.apple.com/seminarsonline/guitarists/apple/>

Improve Your Presentation Skills.

Watch this free online seminar and find out how to improve your presentation skills.

Guitarists and the Mac: A conversation with Pat Metheny.



Guitarists and the Mac is just one of many free on-line seminars offered by Apple.



David Hale, from Apple's Reston office, talked about the new iPhoto 4 (part of iLife '04) at the January General Meeting. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)

For more information visit <http://seminars.apple.com/seminaronline/presenting/apple/>

Keynote: Presentations that Meet your Creative Standards

Take this free online seminar and find out how Keynote allows you to create superior presentations you would expect from a professional creative tool.

For more information visit <http://seminars.apple.com/seminaronline/keynote/apple/>

Mac OS X: The New Desktop for UNIX Users

This seminar will show you how Mac OS X represents the future of the UNIX-based desktop.

For more information visit <http://seminars.apple.com/seminaronline/unixbased/apple/>

Organize, Analyze, and Communicate with Office v. X

A more detailed look at how to use MS Office v.X to organize, analyze, and communicate; based on the overview Online Seminar

For more information visit <http://seminars.apple.com/seminaronline/oacinmsox/apple/>

Perfectly Focused - Digital Photography on Mac OS X

This seminar will show you why you should take the plunge to digital—and how to get started with your own digital photography workflow on Mac OS X.

For more information visit <http://seminars.apple.com/seminaronline/perfectfocusinosx/apple/>

UNIX power. Apple ease of use. The server you need.

Xserve is an affordable, powerful cross-platform server with a stable UNIX-based operating system. Find out how it meets the enterprise IT challenge.

For more information visit <http://seminars.apple.com/seminaronline/xserve/apple/> ■

Security: Microsoft Goes Postal. Er, Poster

© 2004 Lawrence I. Charters

ALITTLE OVER two years ago, in January 2002, Bill Gates announced a major security initiative for Microsoft. Stung by several massive security incidents in 2001, most notably the Code Red and Nimda worms that shut down entire networks and damaged millions of computers worldwide, the chairman of Microsoft announced that, henceforth, security was going to be Microsoft's number one goal.

Since that time, Microsoft has hired lobbyists to tout the security of their product, assigned a staff of security experts to assist the Department of Homeland Security in doing – something; it isn't clear exactly what – and issued a deluge of patches and updates to their software products to patch holes, attempt to patch holes, or to repatch security holes in those products. The results have been impressive: 2002 had far more and much larger security incidents than 2001, and 2003 eclipsed even 2002's performance. Computer security, or more explicitly Microsoft's computer insecurity, left the realm of network security experts and network managers and entered the realm of front-page stories in national news magazines and newspapers.

Things got so bad, in fact, that on August 19, 2003, Microsoft started buying full-page ads in major newspapers asking users to "Protect your PC." *Washington Apple Pi Journal* thought this was a splendid idea, and even reproduced Microsoft's ad, gratis, along with eight alternative ads that we thought might be more effective. (*Journal*, September/October 2003, pp. 80-83).

Microsoft also stepped up their marketing, stating that future versions of Windows (and, presumably, other Microsoft products) would be much more secure. Technology briefings for corporate and government clients, often with nice refreshments, hinted that the long-rumored Windows XP Service Pack 2 (still unreleased as of this writing) would not only install a new, presumably even functional software firewall on Windows XP, but also turn it on!

By January 2004, Microsoft could claim that they had spent "hundreds of millions of dollars" on com-



Microsoft's first tangible security product since announcing their costly "security first" campaign consists of this set of three color posters.

puter security. Most of it, however, appeared to be spent on lobbyists, advisors, press conferences, newspapers and magazine advertisements, and refreshments for PowerPoint-driven briefings. There were few tangible products.

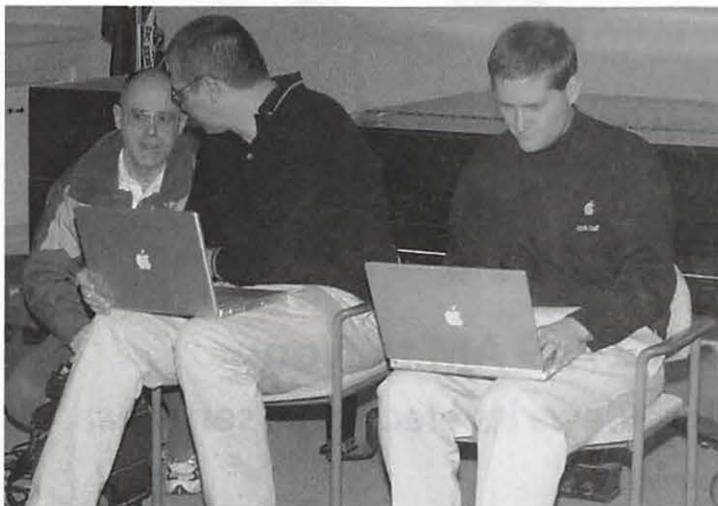
Until now. Microsoft has released three 10 x 14-inch posters, in color, that urge users to avoid viruses, worms and hackers. At one point Microsoft was making 75-poster kits (twenty-five of each design) available for free, mostly to education institutions, but quickly stopped that effort. You now have to download the posters, in Adobe Acrobat format, from Microsoft's Web site:

<http://www.microsoft.com/education/default.asp?ID=SecurityPosters>

The posters don't actually make your PC more secure and, in fact, provide precious little information at all. For that you are directed to another location:

<http://www.microsoft.com/protect/>

As an alternative, of course, you could try another approach: use a Mac. They may not be perfect, but they offer better protection than a poster. ■



David Hale (on the left) and Brian Wayman used Apple's new aluminum-frame PowerBook G4 laptops to help with their presentations at the January 2004 General Meeting. While PowerBooks were not a planned focus of the meeting, they did draw a crowd of admirers. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)

What do the

World Wide Web

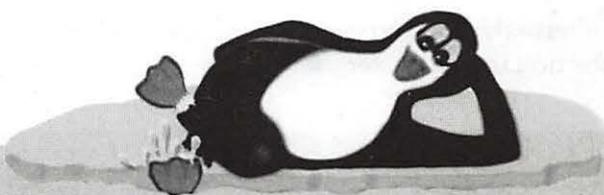
electronic mail

mailing lists

electronic forums

personal Web pages

and a



funny looking penguin

have in common?

**Find out Saturday, March 27, 9 AM to Noon
when Washington Apple Pi reviews its electronic services.**

*And looks to the future: some of which may surprise you.
TCS Explorer subscribers, this is a meeting you won't want to miss!*

Washington Apple Pi General Meeting

Northern Virginia
Community College

Annandale Campus
in the Cultural Center

8333 Little River Turnpike
Annandale, VA 22003-3796

FREE ADMISSION

Everyone is welcome!

For more information:
<http://www.wap.org>

Special Offers— Apple User Group Bulletin

THESE SPECIAL offers are brought to you by the Apple User Group Advisory Board. You must be a current user group member to qualify for these savings. For the necessary URLs, codes and/or passwords, go to the Washington Apple Pi, <<http://tcs.wap.org/>>. After you sign in using the login and password that were printed on your membership card, select the link for the Classifieds Conference and choose "More Member Specials. Full details for each offer can be found there.

The MUG Store

Here is just a sampling of the great deals user group members can get at The MUG Store this month, in addition to free freight and one percent back to your user group:

- * New G5s - \$50 (US) instant rebate, free speakers and up to \$100 (US) additional instant rebate when purchased with an Apple display.
- * Factory Refurbished G5s starting at \$1,399 (US)
- * New G4/1.25 with Combo Drive - \$1,249 (US)
- * Factory Refurbished G4/1.25 with SuperDrive - \$1,649 (US)
- * New iMacs - Instant rebates and free RAM
- * Factory Refurbished LCD iMac G4/700 with CD-RW - \$799 (US)
- * New iBooks starting at \$699 (US)
- * New PowerBooks starting at \$1,249 (US)
- * Factory Refurbished iBooks and PowerBooks - starting at \$649 (US)

Place your orders.

<http://www.applebugstore.com>

This offer is available to members of U.S. user groups.

Aspyr Media

User group members can save \$10.00 (US) each on selected Aspyr games, including the newly released Indi-

ana Jones and the Emperor's Tomb, when you place your order at the Aspyr website.

- * Indiana Jones and the Emperor's Tomb \$29.99 (US) - regularly \$39.99 (US)
- * Kelly Slater's Pro Surfer \$19.99 (US) - regularly \$29.99 (US)
- * Law & Order: Dead On The Money \$29.99 (US) - regularly \$39.99 (US)
- * Star Trek: Voyager Elite Force II \$29.99 (US) - regularly \$39.99 (US)
- * X2 Wolverine's Revenge \$29.99 (US) - regularly \$39.99 (US)
- * Zoo Tycoon \$39.99 (US) - regularly \$49.99 (US)

<https://www.aspyr.com/games.php/mac/complete/>

This worldwide offer ends March 31, 2004.

TechTool Pro 4

Micromat has released TechTool Pro 4 for Mac OS X 10.2 and OS X 10.3, Panther. TechTool Pro 4 introduces eDrive for creating an emergency partition without reformatting. Other features include S.M.A.R.T. testing, optimization, email notification of problems and hardware tests to help pinpoint problems. TechTool is the only utility that simultaneously repairs or optimizes multiple volumes.

User group members can purchase TechTool Pro 4 for \$79.95 (US) or upgrade for \$39.95 (US). To receive these special prices, contact Micromat directly at 800-829-6227. Normal price is \$97.98 full version and \$49.95 for Upgrade version.

This offer expires March 31, 2004 and is available to members of U.S. user groups.

Panergy Software

Do you need to view, print or convert Microsoft Office documents so you can use them with AppleWorks? There's no need to buy MS Office. You can do it easily with Panergy's suite. icWord, icExcel and OneClickConvert quickly display or convert an entire folder of documents in one quick operation.

User group members who buy the icWord and icExcel bundle for \$29.95 (US) will receive

OneClickConvert, regularly \$29.95 (US), for free.

Product details.

<http://www.panergy-software.com>

This worldwide offer expires March 31, 2004.

dvGarage

dvGarage is a company dedicated to training the next generation of media developers. We build cutting edge training for 3D, compositing and visual effects designed to augment TV, broadband, DVD production and film. Offerings include the 3D Toolkit, dvMatte Pro for Final Cut Pro and After Effects, the Composite Toolkit, the Maya Lab and many other training and surfacing tools.

dvGarage is offering user group members an exclusive discount of 30 percent off any single order. This offer covers any combination of products.

<http://www.dvgarage.com>

This worldwide offer expires March 31, 2004.

Sybex Books

Sybex, an independent computer book publisher with over 27 years of experience and commitment, is offering Macintosh user group members 40 percent off list price for online purchase of the following books: Mastering Mac OS X, Third Edition, Mac OSX Power Tools, Presenting Keynote and iMovie 3 Solutions. Other titles are available at 20 to 30 percent off.

This worldwide offer expires March 31, 2004.

Revolution development tools

language which make writing software quick and easy. With support for Internet protocols, databases, multimedia (including QuickTime), XML, UNICODE and more, Revolution has all the features you'll need. What's more, with Revolution Studio you can build applications for every major platform with the click of a button.

Revolution Express \$99 (US) - save \$50 (US)

Revolution Studio \$199 (US) - save \$200 (US)

"Revolution: Programming at the Speed of Thought"
by Dan Shafer

Volume 1: book and ebook - \$10 (US) off both versions.

This worldwide offer expires March 31, 2004.

Convert iCal files

Do you need to convert iCal files to Palm desktop (or Palm to iCal), translate comma- or tab-delimited files of dates to an iCal diary, translate 'plain-text' to an iCal appointment, sort your appointments or produce plain-text output? If you do, then you need iCalMaker, the text-based iCal file editor from MMISoftware.

User group members can receive a 30 percent discount - that's \$25 (US) reduced to \$17.50 (US).

This worldwide offer expires March 31, 2004.

Digi-Elements

Bring Sunny Skies to Photoshop

Have you ever wished you could add a cloud to a picture? Add water with reflections? Wouldn't it be great if you could do all that in Photoshop without learning 3D modeling?

Aurora 2 is a Photoshop plug-in that adds 3D clouds, skies, sun, moon, stars, water, and more in Photoshop. Aurora makes creating 3D nature easy and offers a lot of power.

Normally \$179 (US) for the download version, MUG members can get Aurora for only \$135 (US) -- that's 30 percent off.

This worldwide offer expires March 31, 2004.

Dynamic Graphics • Training

Good design is not a fine art--it's a science. Dynamic Graphics Training teaches you the rules and helps you gain the confidence to produce great visual communication. Learn design, typography, print production and more in classes like Advanced Design, OS X Transition and Digital Photography, taught by experts in their fields. Two-day classes are regularly offered in many major U.S. cities.

For more information on locations, courses, dates, registration deadlines and catalog orders, call 888-

698-8545 or visit online.

This offer is available to members of U.S. user groups only.

Normal Price: Varies

UG Price: 10% Discount

Offer Expires: March 31, 2004

SnapMail

SnapMail is the complete messaging and communication application for your Mac office. Using peer-to-peer technology over TCP/IP networks, SnapMail keeps all of your messages and documents safely in-house. It doesn't require a mail server, Internet connection, or any administration. Send messages, files, folders, reminders and alerts instantly. Combining an intuitive user interface with trouble-free installation and maintenance, SnapMail offers a dynamic and friendly messaging system for Macintosh networks.

SnapMail costs around \$25 (US) per user, even less for education and non-profit clients. User Groups receive prices discounted by 15 percent.

This worldwide offer expires April 30, 2004.

Hemera

Hemera is pleased to offer a 25 percent discount to all Macintosh user groups.* This offer is valid for:

BizArt - Over 56,000 images for business!

Regular price \$49.99 (US), user group price: \$37.49 (US)

Photo Clip Art by Hemera - Real photos you can use like clip art.

Regular price \$29.99 (US), user group price: \$22.49 (US)

Hemera Photo-Objects - 150,000 Photo-Objects images in three volumes.

Regular price \$69.99 (US), user group price: \$52.49

The Big Box of Art - 800,000 images for all your projects. Regular price \$129.99 (US), user group price: \$97.49 (US)

* Subscriptions to Hemera Image Express and AbleStock.com are not included in this offer.

This worldwide offer expires April 30, 2004.

Office Applications for Mac OS X

Office Applications for Mac OS X is a complete office productivity suite based on the OpenOffice.org package. It includes document processing, spreadsheets, presentations, graphics and more. It can read and write the vast majority of Microsoft Office documents, and has multi-language support and a one-click installer.

This package provides professional office software with many enhancements not available through download. We offer a large discount to Macintosh user group members. There is 30 percent off the \$39.95 (US) list price.

<http://BSDmall.com/cgi-bin/clink?bsdmail+8B85sZ+officeapps2.html+adc35p>

This worldwide offer expires April 30, 2004.

Firewire media reader

Carry Computer, a leading worldwide OEM manufacturer of flash card readers and adapters, is offering user group members a special deal on the first and only 6-in-1, multi-slot FireWire Flash card reader. This reader is compatible with all popular memory card formats including Compact Flash Type I and II, IBM Microdrive, Smart Media, Memory Stick, SD and MMC. Compatible with Mac OS 9.1 and above, this reader allows you to quickly upload your photos, files and music at 400Mb per second! Works with iMac, iBook, PowerMac and PowerBook models. Normal retail price is \$69 (US). MUG member price is \$49 (US).

This offer is good in the U.S. and Canada and expires May 31, 2004.

Mac Gold Book

Mac Gold Book subscribers receive heavy discounts on a fast-growing range of hardware and software products including CINEMA 3D, Asante routers, Spire bags and much more. Normally \$34.80 (US) for a one year subscription, user group members pay just \$21.00 (US).

This worldwide offer expires May 31, 2004.

WebPrint Plus

WebPrint Plus lets you instantly print or save selected text, pictures and graphics from virtually any application -- even programs that can't print or save their own content. WebPrint Plus also lets you add on-the-fly time-date stamps and notes to anything (even images and graphics) that you print and save. WebPrint Plus can also instantly print and save the contents of the Clipboard.

WebPrint Plus includes a powerful editor for editing and adding new content to your saved data and images, and many additional features. WebPrint Plus works with Mac OS X and Mac OS 7.5.3 or later.

Normal price: \$39.95 (US)

Macintosh user group price: \$29.95 (US)

Find out more about WebPrint Plus.

http://www.macease.com/webprint_plus_x_main_page.html

This worldwide offer expires May 31, 2004.

MacAddict User Group Offer

Special MacAddict Subscription and Renewal Offer for MUG members

MacAddict for only \$20.95...that's 78% off the basic rate and \$3.05 off of the lowest published rate!

Award-winning MacAddict magazine launched in 1996 as the ultimate hands-on guide to anything and everything Macintosh. Its mission is to provide readers with the most comprehensive range of Mac product and how-to information possible. MacAddict packs each issue with in-depth how-to articles, fact-filled features, expert reviews, and up-to-the-minute news and analysis. MacAddict is justly famous for its eye-catching design and irreverent wit. It is the only magazine for Mac enthusiasts and professionals that offers its readers a compete multimedia experience: a monthly print magazine; a companion CD-ROM packed with software, demos and updates; and the MacAddict.com Web site (www.macaddict.com).

Expires June 30, 2004

Freeverse Software

Freeverse Software is pleased to offer Mac user groups special discounts on the following titles:

- 3D Hearts Deluxe (retail box), the number 1 Hearts card game for the Mac.
- Burning Monkey Puzzle Lab (shareware), a wacky, falling piece game in the tradition of Tetris.

Demos can be downloaded from the Freeverse web site.

Place Your Order (Enter the appropriate discount coupon.) at <https://store.freeverse.com>

3D Hearts Deluxe special \$10 (US) off and Burning Monkey Puzzle Lab special \$10 (US) off, both using the special user group coupon numbers.

This offer is available worldwide.

Offer Expires: June 30, 2004

liquidlibrary

Complete your design projects quickly and efficiently with this exclusive offer for Mac user groups in the U.S. Get liquidlibrary for ONLY \$79.95 (US) a month (\$125 (US) value).

Get over 150 royalty free photos, illustrations and media elements on a double CD, along with time-saving ideas and inspiration in a 68-page monthly magazine. Plus, you get free online management of all your purchased content and discounted access to over 65,000 images at www.liquidlibrary.com.

To order, go to <http://www.liquidlibrary.com>, call 800-255-8800, or e-mail sales@liquidlibrary.com and use the special MUG VIP Code.

Visit www.liquidlibrary.com/freesample and enter the special MUG VIP Code to get FREE access to 150 sample images. Take a look and you'll see liquidlibrary has all the tools you need to be the best designer you can be.

This is an ongoing offer for members of U.S. user groups.

Normal Price: \$125

UG Price: 79.95

Offer Expires: No Expiration

O'Reilly

User group members can receive a 20% discount on any O'Reilly book purchased directly from O'Reilly's website, including upcoming additions to the Missing Manual series. Members are also eligible for a 20 percent discount on all O'Reilly conferences. To receive your discount, use the special MUG Discount Code.

This ongoing offer is available to user group members worldwide.

Normal Price: Varies

UG Price: 20% off

Offer Expires: No Expiration

Asante Technologies

Asante Technologies is the leading provider of Mac networking solutions. The company's products are known for their ease of use.

Asante is offering great discounts to MUG members on wireless routers, switches, and more. For example, the FriendlyNET FR3004FLC DSL/cable modem router with built-in 4-port 10/100 switch, serial port, and LPT port is \$59 (U.S.), regularly \$99 (U.S.), and the AeroLAN 1211 802.11b Wireless pc Card for laptops is \$49 (U.S.), regularly \$95 (U.S.). To get the discount, MUG members should obtain the special order URL and/or Asante contact information.

There is a limit of one of each item per person within the U.S. and Canada while supplies last.

Price: Varies

UG Price: Varies

Offer Expires: While Supplies Last

Macaroni

Macaroni: Automated System Maintenance for Mac OS X

Why should you have to remember to clean up your Mac once a week, or once a month? Shouldn't a computer be able to remember for you?

Macaroni is a tool which handles regular maintenance for Mac OS X, including Unix and Mac OS X maintenance tasks, and offers special scheduling features for Powerbook and iBook users. Normally, these tasks run on a regular schedule, in the middle of the night. How-

ever, if you don't leave your Mac on all night, they never run. Your Mac won't wake from sleep to handle this.

Macaroni solves the problem. If a scheduled maintenance task is not run when it's normally scheduled, Macaroni automatically ensures that it's run at the next opportunity, whenever the Mac is on.

The normal price of Macaroni is \$7.99. MUG users can get a 10% discount by entering the MUG Discount Code.

Normal Price: \$7.99

UG Price: Save 10%

Offer Expires: No Expiration

WiebeTech

WiebeTech produces FireWire storage devices which are small, lightweight, transportable and available in bus powered configurations. WiebeTech also produces FireWire DriveDocks, which allow direct attachment from FireWire to hard drives. These products are available for notebook and desktop drives.

WiebeTech is pleased to offer permanent discounts to MUG members. Discounts vary widely by product, but are always better than retail prices.

For example, MicroGB+, FireWire portable storage enclosure, is available for \$84.96 (regularly \$99.95) and FireWire DriveDock with AC adapter, is available for \$117.56 (regularly \$139.95).

This is an ongoing offer with no expiration date. Offer is open to MUG members worldwide. Shipping costs will be higher outside the U.S.

Normal Price: Varies by product

UG Price: Varies by product

Offer Expires: No Expiration

Audible.com

Listen To The New York Times Every Morning

Audible, the source for great audio information and entertainment, brings you over 20,000 great audio programs. You simply download them and listen on your computer, MP3 player, Pocket PC, iPod or on CDs you burn yourself.

Listen to the best audiobooks from top authors like Tom Clancy and Stephen King. Or listen to audio editions of Macworld, The Wall Street Journal or The New York Times.

Join Audible now and you'll get A FREE one-month subscription to the audio version of The New York Times PLUS 3 bonus gifts:

- 10 FREE blank CDs--burn and listen to great Audible programs on any CD player.

- A FREE subscription to the audio version of Macworld.

- Six FREE issues of Macworld magazine--start or extend your subscription.

You'll always save up to 80% off the retail prices of most audiobooks on CD or cassette.

Offer available to U.S. residents only. This is an ongoing offer with no expiration date. * For MUG Members ONLY *

Normal Price: \$Varies

UG Price: \$Varies, plus bundle of additional benefits/services

No Expiration

Mac Design Magazine

Mac Design Magazine MUG Offer

Special subscription rate for MUGs. Subscribe to Mac Design for just \$12.00 (normally \$19.95).

Mac Design is the only major graphics magazine that teaches users the ins and outs of fast-paced design. Each issue features the hottest design tips, hidden shortcuts, and step-by-step tutorials for working in today's graphics and multimedia applications. Mac Design also provides readers with the industry news and product reviews they need to stay current.

For more information, visit Mac Design's Web site at

<http://www.macdesignonline.com>

Offer valid for U.S. subscriptions only. This is an ongoing offer with no expiration date.

Normal Price: \$19.95

UG Price: \$12.95

Offer Expires: No Expiration

Spamfire

You don't have to put up with unwanted junk email. Spamfire from Matterform Media removes unwanted commercial and pornographic email from your in-box. It works with any POP3 email account and any email program (support for IMAP, Hotmail and AOL is still in development). Spamfire uses intelligent, fuzzy-logic filtering to identify spam and protect messages you want to keep. Automatic internet updates ensure you always have the most advanced spam protection available. Spamfire works in OS 9 and OS X and is a Mac-only product.

Mac User Group members can purchase Spamfire for just \$23, more than 20% off the regular price.

Box & CD, regular price: \$39 (MUG price \$31) Download, regular price: \$29 (MUG price \$23)

Download is good internationally. Box & CD is available only in the US.

Normal Price: \$39 (Box & CD) / \$29 (Download)

UG Price: \$31 (Box & CD) / \$23 (Download)

Offer Expires: No Expiration

macHOME Magazine

macHOME Subscription Offer for MUG Members Only

With over 11 years experience, macHOME is dedicated to providing smart, practical and easy-to-read Mac advice and information. macHOME offers insightful reviews, creative how-tos and straightforward buying guides.

MacHOME is pleased to offer Mac User Group members a 50% discount off of our regular subscription prices. For only \$14.99 new subscribers can receive 12 issues of macHOME--that's only \$1.25 an issue!

Don't waste another minute--take advantage of this special offer today!

Normal Price: \$29.95

UG Price: \$14.99

Offer Expires: No Expiration

AppleWorks News

Keeping Up with AppleWorks

User group members can now get the latest AppleWorks news sent right to their email mailboxes - courtesy of the AppleWorks Users Group (AWUG).

Just register for AWUG's free AppleWorks News Service and AWUG will send you occasional email messages with the latest AppleWorks news including announcements of AppleWorks updates and work-arounds for common problems.

To learn more and to register, visit AWUG's website at <http://www.awug.org> and click on "AWUG's AppleWorks News Service".

This is a free service for the user group community from the AppleWorks Users Group. AWUG respects your privacy - AWUG does not sell, exchange or distribute the email addresses of subscribers to their services.

UG Price: Free

Offer Expires: No Expiration

AppleWorks User Group

\$5 Discount from AppleWorks User Group.

The AppleWorks Users Group (AWUG) offers members of Apple user groups a \$5 discount on their AWUG membership.

AWUG members:

- Receive the AppleWorks Journal, AWUG's 24-page newsletter filled with helpful AppleWorks how-to articles, tips, ideas, projects and the latest AppleWorks news.
- Qualify for free AppleWorks email and telephone technical support from AWUG's 65 volunteer consultants.
- Have unlimited access to AWUG's extensive on-line collection of AppleWorks templates, graphics and utilities. (This service is free for the first year of membership and costs \$10 per year for renewing members.)

"You must be a current user group member to qualify for these savings. For the necessary URLs, codes and/or passwords, go to the Washington Apple Pi, <<http://tcs.wap.org/>>. After you sign in using the login and password that were printed on your membership card, select the link for the Classifieds Conference and choose "More Member Specials."

- Get special discounts on AWUG-recommended AppleWorks books, training materials and AppleWorks add-ons.

A one-year AWUG membership normally costs \$39.95, however Apple user group members pay only \$34.95 for a full year of the AppleWorks Journal (10 issues) and a one-year membership in AWUG. To qualify for this \$5 discount, you must indicate that you are a member of a local Apple user group when you join AWUG.

AppleWorks Users Group, Box 701010, Plymouth, MI 48170; (888) 781-AWUG; Fax: (734) 454-1965; www.awug.org

Normal Price: \$39.95

UG Price: \$34.95

No Expiration

MYOB

MYOB (Mind Your Own Business) MUG Special

MUG members get the \$25 off the regular price of \$99 on First Edge or \$100 off AccountEdge.

Are you a Mac-based small business that has grown out of your computerized checkbook? Have you grown tired of creating invoices using InDesign or

Word? If you think you are ready to move beyond your shoebox, MYOB has the right tool for you at a great MUG discount. MYOB US, Inc., the leader in Mac small business management, has just released MYOB FirstEdge, a new Mac only product that will help you run your business quickly and easily.

Visit our user group web site at <http://www.myob.com/us/usergroups> and download the MUG member order form (PDF format) or email us at usergroups@myob.com and we'll be happy to assist you.
- Todd Salkovitz

MYOB FirstEdge
Normal Price: \$99
UG Price: \$74

MYOB AccountEdge
Normal Price: \$249
UG Price: \$149
No Expiration

MacWarehouse: Brian Caputo Account Rep

MacWarehouse account rep Brian Caputo is pleased to announce a new MUG member discount from MacWarehouse in time for the new G5's. He's offering user group members a 5 percent discount off most Apple products (discounts may be higher on non-Apple products).

If you were thinking of buying the new G5, now is the time. The sooner you reserve your new 64 bit G5, the sooner you will be envy of your group--and you'll have paid a great price, too!

This ongoing offer is available worldwide. *For MUG Members ONLY* ■

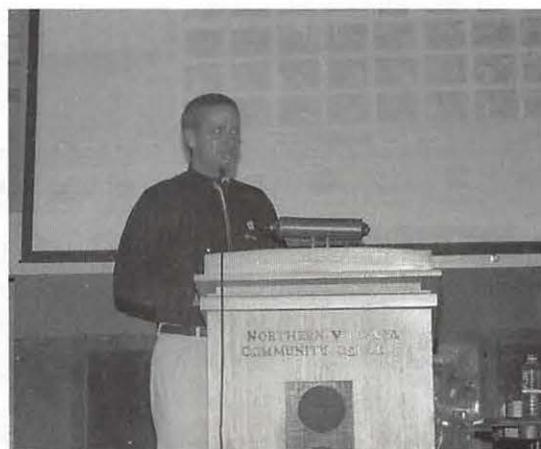


The Pi's registration table was filled, as always with drawing prizes and other goodies at the January 2004 General Meeting. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)

Brian Wayman, an Apple systems engineer and veteran of several Pi presentations, did a brief summary of Apple's new products from Macworld San Francisco at the Pi's January General Meeting. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)



Barrett Thompson, from Apple's Reston office, used a Power Mac G4 (all but out of the picture under the table), a beautiful LCD screen, and a MIDI keyboard to help him demonstrate GarageBand, the newest addition to Apple's iLife collection. (Photo by Richard Sanderson, taken with a Nikon D-100 digital camera.)



First Impressions of the Video iPod

APPLE COMPUTER did not announce a Video iPod device at the January, 2004, MacWorld expo, but I've been trying out an imaginary Video iPod in my mind, and I like what I see. Here is a product review of imagined features of the Video iPod and why I feel this is the most important product Apple has ever designed.

First off, when you hold the Video iPod in your hands, the device feels beautifully designed even before it's turned on. With the textured, soft rubber surrounding the sleek, curved lines of the device, it's difficult for the human hand not to want to touch and hold it.

In my mind, Apple has released 3 models of the device. The entry model is for playback of video only. The middle model is a Video iPod for playback and digital camcorder (as well as digital camera) device. The upper level one is a Video iPod, digital camcorder/digital camera and with iMovie 4 built-in for portable video editing. The highest level one has a 9-inch LCD screen to accommodate the greater resolution needed for video editing. Video editing can be accomplished on this device using any USB mouse.

While the design of this device is flawless, the unexpected innovation is the iMovie Video Store, a web-based service for buying and selling video for viewing on either Video iPods -- or any other device with QuickTime 7 installed on it. This other device may be a personal computer or a personal video server (wired or wireless) for use in a home, school, university, business or government office.

What kinds of videos can you buy from the iMovie Video Store? The standard fare of entertainment videos you might find in any video store, along with instructional videos for adults and children, independent film documentaries, and any other QuickTime file produced by any software program by anyone in the world. The producer of the file would receive half the selling cost of the file. Most producers will choose to price their files at 99 cents, to maximize the size of their audience. As the iMovie Video Store becomes more established and the producers of

QuickTime files develop a reputation for the quality of their work, these producers will feel emboldened to charge more for their creative work.

Do you see what Apple has been able to invent? They own all pieces of the video production and distribution channel, and are able to derive income from video production hardware, video production software, video distribution channels and video viewing playback devices. All of these are seamlessly integrated using Apple's legendary ease-of-use. Other companies might sell a video playback device, but the device will not work with the iMovie Video Store.

Do human beings yearn to communicate their ideas? Is this yearning as deep as any other human need? If you think about the answers to these questions, you'll better understand what Apple has been able to accomplish with the Video iPod and the iMovie Video Store.

Let's delve a little more into the iVideo application that Apple has designed for people to manage the QuickTime files they buy or create. iVideo looks and works like iTunes in so many ways. It seamlessly integrates with iMovie 4 and includes a prominent button in the top left corner of the application: Sell My QuickTime. Clicking on this button transfers an original QuickTime file to the iMovie Video Store for purchasing by others worldwide.

From the moment a video is completed in iMovie or Final Cut to the time it's available for purchase worldwide can be measured in minutes (and sometimes hours) depending on the size of the file and the speed of the upstream connection.

Listen to this: People will be able to purchase unfinished video projects, thereby giving a revenue stream to the producer to finish the project -- if the video uploaded to the iMovie Video Store shows promise.

The standard control panels of the human brain include the Creativity control panel, the Hope control panel and the Dignity control panel. If you open the Creativity control panel while holding a Video iPod in your hands, you'll notice that the creativity slider is twice as long as usual. You can slide it much further to the right. If you open the Hope and Dignity control panels, you'll notice that they too are double in size and slide much further to the right. Apple has focused all its work on expanding the Creativity control panel in the human brain, but since the Hope and Dignity control panel are connected with the Creativity control panel, these two control panels also have expanded capacity.

By including a "Sell My Video" button in the iVideo application, Apple has created a system for video pro-

"In my mind, Apple has released 3 models of the device. The entry model is for playback of video only. The middle model is a Video iPod for playback and digital camcorder (as well as digital camera) device. The upper level one is a Video iPod, digital camcorder/digital camera and with iMovie 4 built-in for portable video editing."

ducers to sell their partially completed videos to anyone so inclined to buy them. What does this do to the Creativity control panel in the human brain? It moves the slider all the way to the right.

This is also an unprecedented step in the history of human communications, giving people a fixed and stable fee-based distribution channel for unfinished creative works.

What will the Video iPod mean for education? K-12 schools will at first complain about the price of the device, shortly before ordering truckloads to be delivered to their school. Why will the device be so popular? Time-shifted learning from some of the best teachers in the country. Why should a student at one particular school not have the benefit of being taught by the best teachers in the country? Granted, teaching is more than talking heads. Great teaching includes the interplay between teacher and student. But could a high school student learn all of algebra from the best teachers in the country via a Video iPod? Yes. Could American history and other standard social studies courses be taught by the best teachers in the country, viewable anytime, anywhere via the Video iPod? Yes. Could a Video iPod benefit gifted students and remedial students? Yes, those students who are able to progress faster than classroom instruction will very much welcome the Video iPod, as with students who learn in different ways.

How will K-12 students use a Video iPod? At first, they'll sign them out for the weekend from the school library. (School media specialists, prepare for this extra work that will not be compensated.) When it becomes apparent that the Video iPod can boost student

academic performance, students will sign them out during the week, too.

Students from affluent families will own their Video iPods outright within the first 2 months of the products release. Hence the very careful planning on Apple's part to release this product only after it has the capacity to meet consumer demand. Not huge consumer demand. Gigantic consumer demand.

Instructional video content will be downloaded to the Video iPod from the school's video server, located in the school library. The school's video server (another revenue stream for Apple) will have anywhere from 30 to 120 FireWire ports on it. It will be cylindrical in shape to allow sufficient "human bandwidth" for students to plug in their Video iPod to receive their teacher-chosen videos. File transfer will take place either via FireWire 800 or FireWire 1600 ports -- amply fast for distribution of QuickTime 7 files. More affluent schools will opt for wireless video servers and the higher end Video iPods with wireless capabilities built in.

It goes without saying that the 2nd generation of the Video iPod, released in 2006, will contain almost all the standard features of the proverbial electronic book. The screen resolution will be moving towards 127-pixels per inch (and higher) based on technology invented by IBM in 1999. The readability of the screen will be close to that of paper.

The holy grail of electronic companies of the past 50 years, the mass market electronic book, will arise from the design labs of Apple Computer. Some might come to say that Steve Jobs outshines Thomas Edison as an inventor. It will be easy to rewrite the history books. History books are no longer printed in an immutable medium. Apple has taken care of that, too, with the Video iPod -- the first incarnation of the electronic book that'll be widely adopted. One way to create history is to invent devices that history is read/viewed on. ■

Phil Shapiro

pshapiro@his.com

<http://www.his.com/pshapiro/> (personal)

<http://teachme.blogspot.com> (weblog)

DoubleClick

DEAR DAVE and Derek:

Thanks for your columns. I have a problem that I'm concerned about. Lately I've been getting a tremendous amount of pop up ads on when I'm on the Internet. In fact, sometimes they just start popping up even though I'm not doing anything. Also, I have a bunch of extra websites in my favorites folder. Do I have a virus?

—Ed
Springfield

DEREK: Ed, I don't think you have a virus, but I do think you have spyware. Yeah, I know. Just when you thought you understood all of this lingo, I throw out something new. What the heck is spyware you ask? Good question.

Spyware is a breed of software that tracks your computer usage. It spys on you. There is bad spyware, worse spyware, and get-this-off-of-my-machine-right-now spyware. Spyware can come in several forms. Some of it will report your surfing habits, name, and software installed on your computer to an ad agency allowing "customized" ads to be displayed on your computer. Some of it will actually record your keystrokes or worse yet, allow a hacker to take control of your computer remotely.

How does this stuff get on my computer? Most of it believe it or not, you've actually installed. Although of course, probably unknowingly. If you're a user of the popular peer-to-peer file sharing program Kazaa... guess what... you have spyware. It came bundled with the program. Yep. Other ways of getting spyware are what are called "drive-by downloads" in which you've gone to a website and it provided you with the program. If you have Internet Explorer set to the default or higher security settings, it will ask you to download and execute it first. Most of us have seen these dialog boxes that ask you to install a program or a plug in when you go to a website. Now you may have spyware.

In rarer cases, these programs take advantage of security vulnerabilities in your system and install themselves. I'm sure none of our readers got them this way, because all of our readers I know have a firewall, antivirus software, and keep their system patched!

Some of the more insidious of these programs are

the "dialers." These programs will hijack your modem and dial a toll, 900, or even international phone number to connect to the Internet or just to rack up charges on your phone account.

So what can you do? Easy. Get rid of them. How? Well, some of the latest Norton and McAfee antivirus programs are detecting and trying to rid you of these programs, especially the harmful ones. However much spyware isn't illegal.

A good program that detects most of it and gets rid of it is called Spybot Search and Destroy. The best part is the price. Nothing. Nada. Zip. All he asks is that if you like it, you donate what you thought it was worth. This program even was named PC Magazine's Editor's Choice.

Web Resources

PC Magazine article on

Spyware:<http://www.pcworld.com/howto/article/aid,111630,00.asp>

PC World Article on

Spyware:<http://www.pcworld.com/howto/article/aid,111630,00.asp>

Spybot Search and Destroy: <http://www.safer-networking.org/>

While I'm not aware of any large spyware epidemic on the Mac side of things, clearly most of these problems aren't related to the platform. It could be just a matter of time before the spyware people want to target those Macs.

DAVE: I wish I could say that Mac's are not bothered by Spyware but it is a problem that Mac users - whether using the "Classic" OS (9 and below) or OS X need to be aware of. Some of the same programs you've mentioned - like Limewire - exist for the Mac. Keystroke loggers exist, as do administrative apps that keep track of what you're doing. Mac users, just like their PC counterparts click on popup ads, install free programs, etc.

So having a decent anti-spyware application on hand may not a bad idea for Mac users. Aladdin (<http://www.aladdinsys.com/mac/cleanup/index.html>) offers a commercial program for Mac OS 9 and above called Internet Cleanup that is one answer. It's available for Derek and his PC friends too, by the way. If you're looking for shareware, MacScan X - still in beta - has been getting some decent reviews. Take a look at <http://www.securemac.com/>. ■

Our thanks to the Journal Papers for permission to reprint this article.

PostArmor: Stopping Spam at the Server

by Charles Arthur <charles@ukclimbing.com >

THE OTHER day I logged on to my mail server directly to have a look at what was awaiting me. A total of 115 messages—of which only 45 actually had any relevance for me, the rest being either spam, viruses unwittingly spread by Windows users, or viruses bounced by servers configured by unthinking admins believing my email address's presence in the From: field meant I was the sender.

A typically depressing day on the Internet—and pretty average too, given that spam and similar junk is now reckoned to make up more than 50 percent of all email, having grown roughly tenfold in the past two years. So we're all on the lookout for weapons to use against spam. For those of us on dialup Internet connections (as I am at home, with absolutely no prospect of broadband due to my rural location), the problem isn't sorting the spam out when it gets to us. No, the goal is to prevent the spam from starting the journey down the narrow phone line from the mail server to our computers. That's why, although spam filters in products like Apple's *Mail*, *Eudora 6*, and *SpamSieve* interest me, they seem a misplaced effort for my problems. Time is precious, as is bandwidth on a dialup, and I don't want to devote it to spam.

Blocked at the Mailbox

Checking your mail while it's still on the mail server is the first step. Over the years I'd used programs like *Mail Siphon* and *POP Monitor* (both are available for Mac OS 9 and Mac OS X). But the problem with these programs is that you must manually decide what's junk and what's not. I can tell at once that an email entitled "Something wrong with the website xfsdksjk" is spam (spammers add the randomly generated extra letters to avoid ISP spam filters that look for bulk email with identical titles), but neither *Mail Siphon* nor *POP Monitor* does. So you end up deleting all the junk mail by hand, which still leaves you cursing spammers.

<<http://www.maliasoft.com/>>

<<http://www.vechtwijk.nl/dev/popmonitor/>>

"A typically depressing day on the Internet—and pretty average too, given that spam and similar junk is now reckoned to make up more than 50 percent of all email, having grown roughly tenfold in the past two years. So we're all on the lookout for weapons to use against spam."

Then one day I stumbled across *PostArmor* and realised I'd found exactly what I wanted—a program that could automatically filter spam before downloading it.

<<http://www.postarmor.com/>>

PostArmor examines only the headers of messages, but in my experience that actually yields enough clues to identify spam almost without fault. It works by allocating points to each message, based on certain clues in the headers, and only those that don't rack up too many points will be allowed straight through to your mailbox.

Using PostArmor

The program, written by Paolo Manna, a programmer based in Holland, is intended to sit and run continuously as a proxy for your principal email program—whether that's *Mail*, *Eudora*, *Entourage*, *Mailsmith*, or any other IMAP- or POP-based system. You tell your email client that *PostArmor* is your mail server; *PostArmor* in turn queries your real mail server and decides, based on its built-in rules and those you set (all of which can be changed) which messages to pass on, which to delete, and which to quarantine.

How does it decide?

Particular dirty words (or parts of them—it will also filter using regular expressions, as I'll explain later) or adult subjects, "privacy" subjects (such as "government" or "tax" or "spy software") or domain subjects (containing the words "your domain" or "quality internet" or "saw your site") and a host of others will all set its whiskers a-tingle. If a message picks up more than a certain number of points (which you set), *PostArmor* deletes it from the server right away. If it

gets more than a threshold figure—again, you decide what—it won't be deleted, but it won't be passed on either: it will show up, highlighted in yellow, in *PostArmor*'s mailbox window. Those which don't hit the threshold zoom straight through to your email program. You can also whitelist and blacklist certain senders and generate "fake bounces" from the server. (The idea is that the fake bounce will persuade the spammer your address is dead; it's a pointless waste of bandwidth, since spammers couldn't care less about removing bouncing addresses from their lists.)

Customizing PostArmor

"But," you're probably saying, "I have people who legitimately send me messages with prohibited words or phrases like 'saw your site' or 'government' or 'tax'—I'm in charge of my government's Web site!" That's fine; you can tweak the numbers and words to your heart's content, and most of all create your own filtering rules.

PostArmor is remarkably flexible: you can search on the Subject, From, To, Cc, Bcc, Content-Type, Reply-To, Date or "Any" headers (though not the title of the header itself); you can choose if that field contains, doesn't contain, starts with, ends with, has your address or doesn't have your address; and then you choose what data string you want to check it against.

One of the program's best features, to my mind, is its capability to let you use regular expressions for that data string. These are tools familiar to Unix users that allow you to search for particular patterns of text in a larger body. Thus for the example email subject title above—"Something wrong with the website xfsdksjk"—I'd set up a "regex" search which looks for a subject line that has a number of spaces followed by a number of characters or digits. If you're unfamiliar with regexes (like most Mac users), don't worry: *PostArmor*'s ReadMe file—whose step-by-step, well-illustrated style is an object lesson to anyone looking to produce software that real people, not wonks, will install and use—contains useful links to online manuals. (For those using Mac OS X, I'd recommend downloading the text editor *Tex-Edit* and reading its useful guide on regexes, and experimenting with its regex-savvy Find function; the Mac OS 9 version does not offer regex.) You can use regexes, for example, to catch email originating from Chinese (.cn), Taiwanese (.tw) or Russian (.ru) servers: note there's a space after those letters, which is critical to catching spam rather than email from your friends at CNET, or Twingo, or that nice <manny.rubenstein@example.com>, all of whom would run afoul of these filters if those trailing spaces weren't

present.

<<http://www.tex-edit.com/>>

PostArmor is initially set to delete only the most egregious junk; most dubious stuff is quarantined, after which you can decide its fate manually. As you gain in confidence, you'll create new rules and tweak the old ones to create a smooth-running system that—if my experience, dealing with 200 email messages a day on two different addresses on a high speed connection at work, and about a quarter of that at home on a third address—will entirely change your reaction to spam. Where it used to be hugely annoying, you'll now find yourself grinning at those yellow-tinged messages unable to reach you with their false promises of a bigger body or smaller debts. (In my work as a journalist, it also catches a huge number of rubbish email messages sent by PR companies; that certainly eases the burden of keeping up with the world.) Plus when a new virus rolls around and generates pointless bounces of the form "Mail Delivery Failed:" you can create a new rule deleting any mail that starts with that phrase. So long, SoBig.

Chinks in the Armor?

Has it any flaws? I haven't run into any; the reason I logged on directly to my mail server the other day, as described as the start of this article, rather than letting *PostArmor* do the heavy lifting, was because the program kept timing out when I tried to check my mail. I contacted Paolo Manna to point this out—and he reacted quickly, sending over a new build (version 1.3.1) of the program which both uses the newer 1.4.1 version of Java available for Mac OS X, and extends the timeout for a login from 20 seconds to 45.

That didn't solve my problem—but I then discovered this was because my ISP's spam-overloaded mail server was taking up to 90 seconds just to react to a request to log on. (Usually it's a couple of seconds.)

Otherwise, the only problem you're likely to run into with *PostArmor* is incorrect configuration—if you create a filter incorrectly or without care, you could end up deleting legitimate mail—but you can set wide limits between "allow directly to my mailbox" and "delete as definite spam." You can then check it in the window *PostArmor* provides to decide, and either allow or destroy it. Thus, I've found *PostArmor* quite safe to use; and it will optionally provide a report on what mail it has blocked and deleted as often as you like, so you can tweak your filters further.

PostArmor is free for a single email account; for more than one you'll have to pay from \$15 upwards (there

are discounts for multiple users). As it's a Java program, it can run on Mac OS 9, Mac OS X, and even Windows, which can be handy: when my iBook was being repaired recently I happily downloaded it on a Windows machine for work and set it to work chomping up those email grubs. ■

[Charles Arthur is technology editor of *The Independent newspaper in London* and editor of *UKClimbing.com*, a British climbing Web site.]

<<http://www.ukclimbing.com/>>

From the *PostArmor* Web site:

Packed with features... and free!

Can evaluate mail on POP3, Secure POP3 (APOP) and IMAP4 servers, presenting itself as a standard POP3 server to the e-mail client.

Doesn't download the complete messages, evaluates just the headers and caches the results, to save bandwidth.

Uses a list of known spammers to speed up evaluation, a user-defined list of blocked addresses and a list of valid addresses.

Has many powerful and tested filter sets included, that can be expanded by the user: filters can take advantage of a pattern matching technique to check against many similar subjects at once.

Verifies the validity of the sender, to filter out fake addresses.

Bounces the message back to the sender, simulating a wrong address.

Generates an e-mail report of the messages blocked on the server.

Sends to SpamCop the spam to examine.

Automatically uses SpamCop's, as well as other blacklists.

Automatically deletes messages after a preset time or over a preset score.

Can be used both in GUI mode, for end users, and in console mode on a server, to filter out many accounts at once.

Has a GUI that takes advantage of localization: the software is already completely localized in French, Spanish and Italian.

It's free! While you run it just for personal use, on your own e-mail account, you don't need to register nor pay a dime!

From *TidBITS* 706/17-Nov-03.

Internet via Two-way Satellite

by Richard R. Lloyd, rrlloyd@direcway.com

FOR SEVERAL years I've been suffering with a dial-up Internet Service Provider—not that there was anything at all wrong with the ISP (Dreamscape) service; it was the old, very slo-o-ow Pompey phone lines that gave me fits. My download speed varied slightly, of course, but it typically was about 1.7 KBs (Kilobytes per second). Would you believe that I once downloaded Apple's 70 MB OS 9.1 updater—would you also believe that it took 9-1/2 hours to download it? From time to time I called Road Runner, but they weren't servicing my particular location, even though neighbors on the next street, 500 feet away, had it. And DSL was out of the question, since my house is 7-1/2 miles from the Verizon central office.

I was aware that satellite Internet was available but, until very recently, it supported only PCs. Also, I believe that it was a one-way satellite, i.e., satellite download but regular dial-up upload. About three months ago I learned that Direcway had come out with a new DW6000 modem which contained all its software internally, and therefore was independent of the computer type. In fact, their literature specifically stated that it supported the Macintosh. I did some reading on their website and finally decided to go for it.

The upfront cost is on the expensive side. It's \$599.98 for the modem, satellite dish and installation, and then \$59.99 per month for the service, with a 15-month contract. The monthly charge is not bad, since eliminating the cost of the second phone line and Dreamscape's monthly charges makes it only 4-5 dollars more per month than it was. However, the installation actually cost me \$200.00 more than shown above. The quoted price is for installation of the satellite dish on the building. Since I live in a "Sugarbush" (20 acres of 150 foot sugar maple trees), the satellite couldn't be seen from my house. They had to install a steel pole away from the house. The extra charge was for digging the hole, providing the pole, mixing and using 4 bags of quick-setting cement, and cutting a little ditch to bury the wires a few inches underground from the pole to my house.

One of my initial concerns was that I had to get a router and set up an Ethernet network—with which I had absolutely no experience. I bought a LinkSys Etherfast Cable/DSL Router with a 4-port switch. It came with a setup CID (for PCs only) and a FastStart booklet (for PCs only); the word Macintosh was not

"I was aware that satellite Internet was available but, until very recently, it supported only PCs. Also, I believe that it was a one-way satellite, i.e., satellite download but regular dial-up upload. About three months ago I learned that Direcway had come out with a new DW6000 modem which contained all its software internally, and therefore was independent of the computer type."

mentioned. I emailed LinkSys support for help and, while waiting for their reply, went into my OS X 10.2.8 System Preferences to make some changes. In Network, I changed "Show" from "Built-in Modem" to "Built-in Ethernet," clicked on "TCP/IP," and set "Configure" to "Using DHCP."

LinkSys' return message was simple and helpful. All I had to do was open any browser, type "http://192.168.1.1" in the address field to get the router's password menu. As instructed, I then left the username blank and typed "admin" as the default password. That gave me the setup page of the router, where I checked "Obtain an IP address automatically," and that was it.

After installing the pole and dish, and running cable to the house, the installer ran the cable along the basement sill plate and then up through the computer room wall, where he installed a dual coaxial cable outlet. Yes, that surprised me; without any thought, I guess I was expecting a single coaxial cable, but it was a dual cable. Well, duh, of course! One cable for downloading from the dish and another for uploading to the dish. He connected the modem to the cables and to the router, and then phoned in to "commission" the connection. He also had to have them change the transponder; since he couldn't "see" the usual satellite they use, he had to use a different one (so much for living in the trees). Anyway, at that point I was operational, went to Direcway to set up email accounts for my wife and myself, and began browsing and sending email address changes to everyone.

I had read somewhere that Safari (which I had been using as my browser) would not work to set up the router; that one had to use Internet Explorer for setup, but thereafter could use Safari. I set up with Explorer and then kept using it for browsing. Some strange things

began happening. I could get to about 80% of my usual websites, but could not get to the rest. For example, the ezine sites <http://www.macintouch.com> and <http://www.macnn.com> worked fine, but <http://www.macfixit.com> got me just the spinning ball, with nothing ever happening. Similarly, I could get to <http://www.macconnection.com> but got the spinning ball with <http://www.macmall.com>.

I emailed Direcway support to ask about the problem. I got a less than helpful reply saying, in part:

"Thank you for using DIRECWAY'S E-Support. Those pages should be loading normally. If the problem persists please call our tech support at 800-347-3272 for problems with the DW6000."

After receiving that great advice, I decided to see what would happen with Safari. And lo and behold, all the websites loaded normally! I've tried Explorer a couple of times since then, and still have not been able to get to those websites with it. So much for Microsoft products.

I'm sure you all are interested in the speed of the satellite setup. Well, for starters, I decided to download the Mac OS 9.1 updater again (Remember the first paragraph of this article, where it took 9-1/2 hours?). This time it took 12 minutes, which is about 47 times as fast (and is 97.2 KBs). The actual speed varies from test to test. The Direcway speed test purports to be very accurate, since it takes into account the computer's Operating System, the modem being used, the modem software version, the Gateway IP and the signal strength at my dish. A recent series of six consecutive tests averaged 92.8 KBs download and 41.4 KBs upload. Plus, between this paragraph and the preceding one, I downloaded a 6.2 MB file (Safari) from Apple's software update site; it took 55 seconds, for a speed of 112.7 KBs. The download speed is the most important, of course, since I may download huge updaters, etc., but rarely will upload such things.

There have been a few oddities. When I first got hooked up, I was unable to send email to anyone at AOL; they all bounced with the error message "Illegal host/domain name found." Direcway support advised me that it started recently when AOL went to Version 9.0 of their software, and that AOL was working on it. A few days later it was fixed and I have been able to send email to AOL people ever since.

A couple of days after that, mail to everyone with a Road Runner (RR) address started bouncing. For some reason, RR had placed a block on the Direcway domain, which usually is done to spammers, initiators of Denial of Service attacks, and the like. Direcway told me that they couldn't remove RR's block (obviously), but that they were in contact with Road Runner to try to solve

the problem. I called Direcway daily and got the same advice. After 2-1/2 weeks, the Direcway support person told me that RR would not remove the entire Direcway block at once, and that I should send email to <abuse@direcway.com> and tell them to get me reconnected to RR. I sent the message and about four hours later was again able to send to RR. Strange!

One 'picky' dislike I have is the satellite modem itself. It's not so much its size, although that's a fairly hefty 10" high x 11 " deep x 1-1/2" wide, with a base that's 3-1/2" wide. The problem is that what should be five LEDs (power, system, transmit, receive and LAN) on the front panel are just clear windows. The motherboard has five very bright blue LEDs with plexiglass piping from the LEDs to the five indicator lenses on the front panel (with the LEDs not being covered in any way). Since the modem has many wide cooling slots, the bright blue LEDs provide a very annoying glare. I found it impossible to keep on a visible area of the computer table; I had to hide it behind the monitor. Even so, at night when the computer and room lights are turned off, the room still is bathed in a blue glow. Seems to me to be a stupid design.

All in all, though, I can say that I'm well satisfied with the two-way satellite system. Previously, graphics being received just slowly inched down the page; now they appear in a blink. The same with websites, which appear so much faster than before. And, of course, the fast downloads of large files is great. Formerly, when someone sent me email attaching 5-6 MB of pictures of the grandchildren, it was agony; in fact I eventually told everyone to limit attachments to 1MB. Yesterday, however, my daughter sent a 5 MB grandchildren file which just zipped through. Aaaaaah, speed—it's wonderful! ■

From the January 2004 The Apple Tree, newsletter of the Syracuse MUG.

Take your digital photos from wallet to wall size. Full wall size.

Extensis pxl SmartScale enlarges images intelligently so there's no discernible loss of image quality

by John Brandt

IMAGING EXPERTS will usually tell you that you need a huge file to print a huge photo. And of course, you do. But what if all you have is a good 4X5 or 8x10" image, and you want to fill a whole page—or a whole room floor to ceiling?

Sure, you can try to res it up in *Photoshop* or *PhotoShop Elements*, but you'll lose a whole lot of detail the larger you go. Edges will take on colors that begin to look like a bad science fiction movie. The sharp detail will turn to mud. Your beautiful image won't be pretty, it'll be pretty ugly.

So what do you do? Use bigger pixels? You could reshoot the photo at higher resolution. If you bought a royalty-free image online, go back and pay a few hundred for a higher res version. Take a bunch of smaller photos and stitch them together.

Well, if you wanted a larger photo with any quality, that's what you had to do in the old days. You know, way back in the 20th century.

In these modern times, there's a better way. A way to actually take an image and scale it—losslessly—to sizes impossible just a few years ago. To not just enlarge pixels but intelligently resample images.

It's pretty amazing. Through the use of advanced imaging algorithms, Extensis *pxl SmartScale* analyses and interpolates images so there's no discernible loss of image quality. Celartem Technology's PixelLive™ advanced scaling technology increases resolution while maintaining color, brightness, and color-to-color edge detail to produce enlargements beyond the capabilities of Photoshop.

pxl SmartScale, unlike earlier scaling technologies, also makes it easy, with full interactive previews so you can see exactly what you'll get and can crop if desired before you commit to resampling. You can save directly to many image formats without the need for saving in any intermediate file formats.

The actual scale resampling runs incredibly rapidly for such a processor intense action.

Yes, it's simply amazing. But they didn't stop at pretty, simple and amazing. This is no software that looks and acts like it has been through upgrade heaven. Unlike many Photoshop plug-ins with small locked previews within oversized palettes, the palettes float, toggle, dock and snap. The resizable, fullscreen preview window lets you zoom in and out, scroll around and crop your image precisely with full screen views.

Just like Photoshop itself, you get multiple ways to do it: by eye, click and drag, by using a slider or precisely controlling coordinates by the numbers. You can use the presets or save and load your own.

Oh, yeah, then there's the details. From any image open in Photoshop, you can simply save up-scale in normal mode for quick and easy, fantastically redetailed images. Or, take control over overall sharpness, edge contrast and edge detail. In any combination, while you see what's happening to your photo right on the screen. (Hmmm, sounds rather intuitive, but until now, it never has been.) An extreme sharpening option, Extreme Edges, goes a bit far for my tastes, but if you want a perfectly smooth, semi-posterized end product, it's available. On some types of images, like computer-generated paint or 3D drawings, Extreme Edges will keep that digitally super smoothing,

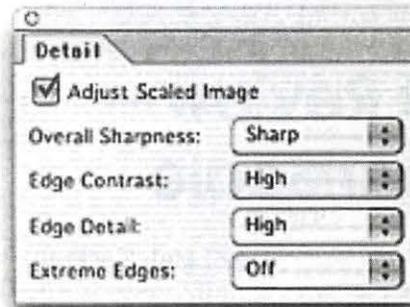
Did I mention protection? This software will even lock your doors and windows. Just kidding. But you can protect your files with user names and passwords. A free file format plug-in can be freely distributed to those who don't have pxl SmartScale, but to whom you want to be able to send and open your PixelLive password-protected photos (PFZ format). There are two levels of protected files, individual and server. For individual mode, passwords are stored within a specific image. Server protection allows groups of images to be controlled by the administrator for selective distribution and modification rights to other users or groups.

By saving a photo in pxl SmartScale's PixelLive compression format, password protected or not, at full lossless quality you'll reduce file size to about 60% of TIFF size. Here again, you get multiple compression levels that let you reduce file size even more (but with less image data being saved, similar in concept to JPEG). Great for emailing large images. The unprotected format is VFZ.

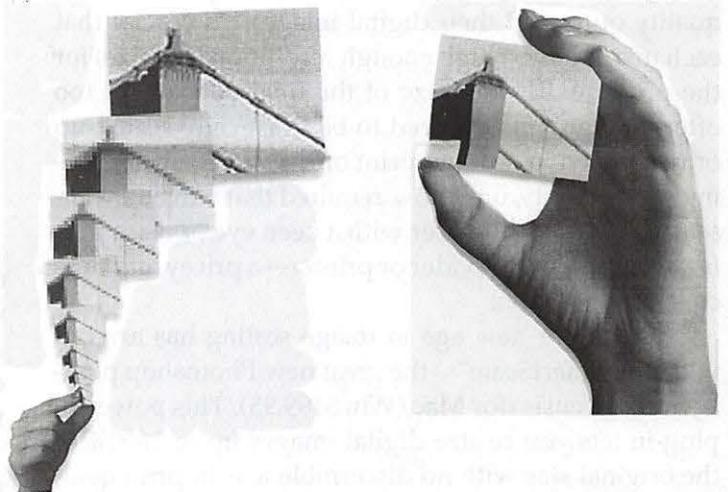
Besides the PixelLive protected PFZ and unprotected VFZ, you can save directly from SmartScale back to Photoshop, PSD, or TIFF, JPEG, BMP, and PNG. It's also non-destructive to color profiles—all ICC profiles are saved within the PixelLive formats or when scaling using SmartScale.

So whether you're a photography or print professional or just want posters of your vacation photos, pxl SmartScale does it all. Simply. Intuitively. Quickly. Completely. And yes, with surprisingly high quality results. ■

From the winter 2003 *Mactropolis*, newsletter of The Rest of Us Chicago MUG.



pxl SmartScale gives you control over multiple levels of detail and sharpness. Normal defaults will work well for many images, but for sharper images, you can adjust and view with fullscreen preview.



pxl SmartScale V1.0

Lossless photo scaling up to 1600%

Extensis

<http://www.extensis.com>

Plug-in for Photoshop 6.0.1 or higher, Photoshop Elements 2.0 or higher. Mac OS 9.2.2 or OS X (10.2.5 or higher)

Features:

Visually lossless digital photo scaling up to 1600%

Full interactive preview with floating palettes

Control sharpness, edge contrast, edge detail, precision cropping

Direct export to many image file formats, no necessity for intermediate file format

Password protection available

MSRP \$199.95

Competitive upgrade (from products such as Genuine Fractals) \$169.95

Product Review— pxlSmartScale

by Leigh Cockrell

PHOTOGRAPHERS, graphic designers and printing professionals who work with digital images on a daily basis know that to insure maximum quality output of their digital images it's crucial that each image have a high enough resolution (file size) for the print quality and size of the final output. All too often though, images need to be drastically scaled-up or resampled in order to print or display correctly. Doing so effectively, until now, required that you be a well-seasoned Photoshop user with a keen eye or use a professional service provider or printer—a pricey and time consuming option.

But now, a new age in image-scaling has arrived with "pxlSmartScale"—the great new Photoshop plug-in from Extensis (for Mac/Win \$199.95). This powerful plug-in lets you re-size digital images up to 1600% of the original size with no discernible loss in print quality. Its intuitive interface seamlessly integrates into Photoshop with familiar crop, magnification and navigation tools, floating/docking palettes and a full screen preview which lets you view options in real time. A detailed scaling tool gives you the choice of refining your scaled image even more by controlling the overall sharpness, edge contrast and edge detail. These adjustments are unfortunately preset with limited levels and would be more practical if they were slider bar controls with wider ranges.

In addition to its amazing scaling capabilities, SmartScale has a powerful built-in compression file format that provides six levels of visually lossless compression. The PixelLive (VFZ) file format, at the highest level, reduces files to about 60% of comparable TIFF file sizes and produces proof quality images that are easily e-mailed. When saving a file in the PixelLive (PFZ) file format you also have the option of embedding password protection that restricts viewing and modification rights of that file. These files can be shared and viewed from within Photoshop with a free plug-in from Extensis and outside of Photoshop with a stand-alone PixelLive application from Celartem. Both are free downloads from their respective web sites.

"In addition to its amazing scaling capabilities, SmartScale has a powerful built-in compression file format that provides six levels of visually lossless compression. The PixelLive (VFZ) file format, at the highest level, reduces files to about 60% of comparable TIFF file sizes and produces proof quality images that are easily e-mailed."

All things considered this is a wonderful tool for scaling images and the results are amazing. But be forewarned: SmartScale can't take a postage size image off the web and turn it into a print quality poster. But a clear image at say 700KB can be enlarged to a 175MB file with wonderful results.

It really depends on the quality of the original, and ultimately the quality needed in the final output. I'd suggest printing a few samples of your scaling efforts on a high quality output device to evaluate your actual results before you start scaling images that will be used in an expensive high-end print job. Better safe than sorry!

A final note, if you are considering SmartScale be sure your system can support it before you make the investment. The operating system requirements are considerable:

- * Adobe Photoshop 6.0.1 or higher, Photoshop Elements 2.0 or higher
- * Mac OS 9.2.2 or Mac OS X 10.2.5 and higher
- * PowerPC G3, G4, or G4 dual or equivalent
- * 128MB RAM minimum, 256+MB recommended
- * Quicktime 5.0.2 or higher (if running Mac OS 9)

<http://www.extensis.com/pxlsmartscale/index.html?ref=hp> ■

Leigh Cockrell is with North Coast Mac Users Group. She lives in Santa Rosa and can be reached at lcockrell@pobox.com.

From the Jan./Feb. 2004 *Fat Bits*, newsletter of CVMUG (California).

Uses for Old CDs?

by Gordon Woolf

WHAT DO you do with that pile of now-useless CDs? One-of transfers of large files that will never be needed again, last year's editions of anti-virus programs and free trials of ISPs that merged or went belly-up. There are also the many "frisbees"—the output of CD writers when you forget to disable the screen saver or defragmenter or there was a hesitation in the power supply. Increasingly too there will be the backup CDs made with lowgrade dyes that fail after a year or less.

Recyclers don't want any of these plastic discs so they end in the wheelie bin on their way to landfills. But why? There are uses for some of them at least, as I found when I asked some net-friends. A common suggestion is to use them as coasters, but they have a problem in that role—the liquid stays on the surface and still drips from the glass or stubby.

Carole Majors in the USA had an answer for that: "I found a lovely recipe for crocheting CD covers that make them into real absorbable coasters. I think it turned up one day while I was 'googling' for some resource on CD-R uses..."

<[http:// www.crochetmemories.com/archive/misc4.html](http://www.crochetmemories.com/archive/misc4.html)>

Former Adobe magazine editor Wendy Katz in Seattle tells: "My husband had an old microwave oven that he was intent on destroying, and he used to put the trashed CDs in it and fire it up. Made a heckuva sound and light show, with an olfactory track to boot. One new microwave and two impressionable kids later, he's kicked the habit." That's one suggestion we don't recommend.

Sue Mitchell in Fairbanks, Alaska, looking forward to a summer which we would regard as being too cold for winter, but who, unbelievably, has an ISP with the name "mosquinet," wrote: "I've seen people selling clocks made from CDs with the hands inserted through the hole in the center. Either with painted faces or just plain as they were manufactured."

To that, and closer to home, Loraine Chapman, who seemingly commutes between publication production

"Recyclers don't want any of these plastic discs so they end in the wheelie bin on their way to landfills. But why? There are uses for some of them at least, as I found when I asked some net-friends. A common suggestion is to ..."

work in Brisbane and Thailand, added: "You have given me an idea Sue. I am going to use one of my 'dead' CDs as a backing for a crosstitch clock—been wondering what to use for a 'circle'! Perfect!!

Others suggested some commercial sites on the web where I found a desk organizer. The blurb states: "Made with three CDs, this desktop object d'art has a place for your business cards, a handy clip to hold urgent notices, and a spring funnel for your favorite pen. And, it brightens up your desk with color and bits of fancy." These seem highly priced at \$30 in US currency, but they seem to be works of art: "Myra's famous abstract designs are output on a digital press, then laminated on to a used, discarded CD. Add some clever construction and glass beads... and voila! All Dis-Organizers have a cork, felt or foam bottom so as not to mar your desk or slip. From friendly ceramic animals and miniatures to floral landscapes and witty mechanical puns... Recycle with style!" There's more information and pictures at <<http://www.nanosite.com/confab/disorganizer.htm>>

The same artist has also recreated from two reject CDs a handbag based on those beaded bags of the early 20th century. Myra described them as a "homage to the past, using discards of the present..." She's selling them for up to \$120!

If anyone has better ideas, let me know, either through PC-Update or direct to gordon@worsleypress.com. Incidentally, the site with the crochet-CD coasters also has a pattern for covers for usable CDs. Little woolly jackets for CDs seem a step up on the so-called jewel case. ■

From the December 2003 issue of *T-MUG Insider*, newsletter of the Tri-Valley Macintosh Users Group

Mailing labels

by Tim Adams

I RECENTLY had a request dealing with mailing labels. With it being the Christmas season, I could only guess that this request came at a time when doing the Christmas cards by hand had become a tiring process and the requester was looking to speed up the process by using the computer.

The answer I gave was two fold. It all depended on what kind of mailing labels they were looking to do. For a quick and easy return mailing label, if they owned *MS Office, Word* could do you a sheet of labels quite easily. All you need to do is follow these short steps.

1. Open *Word*

2. Type in your name and address information just like you want it to appear on the label, like:

Tim Adams

5 Main Street Apt. 2

Merrimack, NH 55555-5555

3. Go to the 'Tools' menu and select 'Label'

4. In the dialog box that opens, find the 'Label' section and select 'Option.' At this point you will be presented with a drop down list of many different label products as well as a window filled with label product numbers. The default product is typically Avery and in most cases you will not need to change it. What you will need to do is go to the product number field and find the number of the label you are going to be using. Personally, I find that the Avery 5267, with 80 labels per sheet, works fine for a return mailing label while the Avery 5160, with 30 labels per sheet, works fine for an address label.

5. Click OK in the dialog box. You should now see a page filled with your address information, all ready to print your labels. While it is perfectly fine just to go ahead and print, I normally print a sheet of plain paper first, just to see how it lines up to a sheet of labels. If everything looks good, I then go ahead and print the labels.

For printing a list of mailing labels, not return address labels, I suggested using *AppleWorks*. While I didn't get into the specifics as it is a bit more complex, it is rather simple after you've done it once or twice.

1. Open *AppleWorks* and select the Database option at the startup screen.

- 2) In the dialog box you will be presented, create fields named 'Name,' 'Street,' 'City,' 'State,' and 'Zip.'

When all of these have created just click on 'Done.'

- 3) Go to the 'Layout' menu and select 'New Label Layout.' At this point you will be presented with a 'Wizard' that will walk you through creating the labels you want. You will need to press enter twice to actually get started. As with *Word*, Avery appears to be the default label. Pick the label number from the drop down and press next. You now have an option as to how many lines you want printed on each label. Typically this is only 3 but in some cases you will need 4. *AppleWorks* gives you options from 1 to 6. Pick what you need.

You will then be presented with what I call a funky dialog box that allows you to pick what DB field information goes onto each line of your label. Between each choice is an empty box for you to add even more information. Typically you would select the Name field for line one and your street address would go onto line two. Looking at my sample address above, you can see I've just got a three line address. On the third line are three fields from the database, City, State and Zip. You will also note that I've separated the city from the state by a comma and a space, and separated the state from the zip code by just a space. The opened boxes between the fields is where you would type the comma and space or just space to add these to your finished label.

With this done, select next and you will be presented with options to pick your font, size and style of text to be used on your labels. Be careful that you don't pick a size that will be too large for your longest address to fit on one label!

At this point, clicking next prompts you to name the label layout you've just created and once that is done, and the layout saved, you're done, all but the fun part of adding all your names and addresses to the database you just created. You will find it easier to go to the 'Layout' menu and select layout 1 to do this.

The process for this is fairly straight forward, by selecting 'New Record' from the 'Edit' menu, merely type in the data you have and you're set to go.

When all of the data has been entered, you are ready to print your labels. The first requirement will be to go to the 'layout' menu and select the label layout you created. You can then go to Print in the File menu and print out all of your labels. Again, I suggest printing to a plain piece of paper first. While the templates these two programs use are very accurate these days, I remember having to 'tweak' the location of my text on the labels in years past and this is why I still recommend printing this single sheet of plain paper before printing the labels themselves. ■

From the December 2003 *SNAC Times*, newsletter of the Southern New Hampshire Apple Core.

Washington Apple Pi, Ltd. Bylaws January 2004

THese WASHINGTON Apple Pi Bylaws were adopted by vote of the membership on 24 January 2004. They amend the Bylaws that took effect as of 22 November 2003 by replacing them in their entirety. The product represents the efforts of many members of the Board of Directors to devise a coherent set of Bylaws that address a wide variety of governance issues facing Washington Apple Pi at the time of their presentation. The text given here was reformatted for publication in the Journal. Inasmuch as we expect our Bylaws to always be posted on official WAP web space, we have decided to make the HTML text of this document the "official" one. It can be accessed at <http://www.wap.org/about/pibylaws0312.html>

ARTICLE I - NAME

The name of the corporation is Washington Apple Pi, Ltd. (hereinafter referred to as "WAP" or the "Corporation").

ARTICLE II - PURPOSES

WAP is formed to function as a charitable and educational computer club organized exclusively for pleasure, recreation and other not for profit purposes within the meaning of section 501(c)(7) of the Internal Revenue Code of 1986, as amended (or the corresponding provision of any future United States internal revenue law). More specifically, such purposes include, but are not limited to, mutual learning and education of members of the public who share an interest in computers. Substantially all activities of the Corporation shall be for pleasure, recreation and other not for profit purposes. [Amended June 1994.]

ARTICLE III - PROHIBITED ACTIVITIES

No part of the net earnings of the Corporation shall inure to the benefit of its members, directors, officers, or other private individuals, except that the Corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in Article II hereof. No substantial part of the activities of the Corporation shall be the carrying on of propaganda or otherwise, attempting to influence legislation. The Corporation shall not participate in or intervene in (including the publication or distribution of statements), any political campaign on behalf of any candidate for public office. The Corporation shall not carry on any other activities not permitted to be carried on by a corporation exempt from federal income tax under Section 501(c)(7) of the Internal Revenue Code of 1986, as amended (or the corresponding provision of any future United States internal revenue law). [Amended March 2004.]

No member, director or officer of the Corporation shall be financially interested, directly or indirectly, in any agreement relating to the operations conducted by the Corporation, nor in any transaction for furnishing services, facilities or supplies to the Corporation for compensation, unless the fact of such interest be known to the Board of Directors and unless such agreement or transaction shall be authorized by the Directors who have no interest, direct or indirect, in such agreement or transaction. [Amended June 1994.]

ARTICLE IV - OFFICES

The address of the principal office of the Corporation is 12022 Parklawn Drive, Rockville, Maryland 20852. The Corporation may maintain additional offices at other places as the Board of Directors chooses to designate. [Amended May 1983, August 1989, March 1998.]

ARTICLE V - MEMBERSHIP

SECTION 1. CLASSES OF MEMBERSHIP. There shall be two types of membership: Regular and Associate. There shall be two classes of regular membership: Family and Life. Family membership entitles any member of the immediate household to all privileges of membership, except that the family mem-

bership is entitled to a single WAP Journal and a single vote. Individuals seeking offices covered by Article IX must each have a membership card in their own name. Life memberships are honorary in nature and are given by the Board of Directors to members and individuals who, in the opinion of the Board of Directors, warrant recognition for meritorious activities that benefit Washington Apple Pi. Associate memberships are special classes of memberships created by the Board of Directors with special membership rates and privileges. Associate members may not hold an elected office and may not vote. The Board may establish additional classes and benefits of Associate memberships by a two-thirds vote at a Board Meeting. Associate membership classes shall be reviewed annually at the July meeting of the Board of Directors. Examples of associate membership classes could be student memberships, corporate memberships and store employee memberships. [Amended July 1986, February 1994, June 1994, March 1998 and March 2004.]

SECTION 2. ELIGIBILITY. Membership in WAP is open to any individual who satisfies the Corporation that he or she is willing to participate constructively in the Corporation's mission and activities. [Amended July 1986, February 1994, June 1994, March 2004.]

SECTION 3. DUES. The annual dues for each class of membership shall be determined by the Board of Directors. For a member to remain in good standing, renewal payment is due and must be received at the Corporation's Office by the end of the month in which the membership expires. [Amended March 1993.]

SECTION 4. LIMITATION OF AUTHORITY. Except as otherwise specified in these Bylaws, no member shall act in the name of WAP or take any action that would bind WAP. [Amended July 1986.]

SECTION 5. RESIGNATION. Any member may resign from membership in the Corporation by submitting a written resignation to the Secretary of the Corporation, but members shall not be entitled to a refund of any portion of the annual dues paid prior to such resignation.

SECTION 6. TERMINATION OF MEMBERSHIP. Membership in Washington Apple Pi is terminated upon failure to pay the annual dues for more than twenty-one (21) days after the due date thereof. [Amended

March 2004.]

SECTION 7. EXPULSION FROM MEMBERSHIP. Members engaging in activities prohibited by these Bylaws or any rule or practice adopted by the Board of Directors of which notice has been given to members may be expelled. Before any member may be expelled for engaging in prohibited activities, written charges specifying the alleged cause shall be filed with the Secretary and a copy thereof shall be served on the member charged. The member charged shall be given notice of the meeting of the Board of Directors at which the member's expulsion is to be considered, and the member charged shall be allowed a hearing before the Board. If the Board determines that the prohibited activities are correctable, the member charged may, at the discretion of the Board, be given an opportunity to correct such conduct. The member charged may be expelled by the affirmative vote of two-thirds of those Directors present and voting at the Board of Directors meeting of which the member charged received notice, a quorum of Directors being present. The member charged shall receive prompt written notice of the Board's action. Should an employee of a firm holding a Corporate Associate Membership commit acts which warrant expulsion, the Corporate Associate Member firm will be expelled from membership in Washington Apple Pi. An individual or Corporate Associate Member expelled from membership may be reinstated as a member by a majority vote of the Board. [Amended March 1986, July 1986, August 1989, March 1993, and March 2004.]

ARTICLE VI - MEMBERSHIP MEETINGS

SECTION 1. REGULAR MEETINGS. Regular Membership Meetings shall be held monthly. Notice of each meeting, stating the date and hour of the meeting and the place where it is to be held, shall be published in WAP publications and communications. [Amended March 2004.]

SECTION 2. SPECIAL MEETINGS. Special Membership Meetings may be called by the President, the Board of Directors or a signed petition of at least fifty (50) regular members in good standing. Notice of a Special Membership Meeting, stating the date and hour of the meeting and the place where it is to be held, shall be given by publication in WAP publications and communications at least 14 days prior to the meeting. No business other than that stated in the notice shall be transacted. [Amended Feb-

ruary 1994 and March 2004.]

SECTION 3. QUORUM. For Regular Meetings, the Regular members in attendance shall constitute the quorum in order to conduct business. For Special Meetings, fifty regular members in good standing must be present in order to conduct business. [Amended February 1994 and March 2004.]

SECTION 4. PROXIES. No member may vote by proxy at a Regular or Special Membership Meeting.

ARTICLE VII - BOARD OF DIRECTORS

SECTION 1. POWERS. The business and affairs of WAP shall be managed by its Board of Directors, which may exercise all powers of the Corporation and perform all lawful acts and things which are not by law, the Articles of Incorporation, or these Bylaws directed or required to be exercised or performed by or are conferred upon or reserved to the members.

SECTION 2. COMPOSITION. The Board of Directors shall be comprised of 15 Directors elected by the membership pursuant to Article IX hereof. An officer does not cease to be a Director if removed or replaced as an officer. [Amended April 1984, February 1987, June 1988, August 1989, June 1990, March 1993, March 1999 and March 2004.]

SECTION 3. TERM. Starting with the calendar year 2004 election, the term of office for each Director is three years. Directors shall serve until their successors are elected and qualified. Terms are staggered, with 1/3 of the directors being replaced annually on a predetermined schedule. Class A directors are those whose terms expire in 2005, and every third year thereafter. Class B directors' terms expire in 2006 and every third year thereafter. Class C directors' terms expire in 2007 and every third year thereafter. Beginning with the first election cycle following the adoption of these Bylaws no individual may serve as a director for more than three years in any four year span of time. An individual who is appointed to a Directorship between elections shall be credited with one full year of service if they serve for more than six months before the certification of a new Board. [Amended January 1992, March 1993, and March 2004.]

SECTION 3.i - SPECIAL PROVISION FOR THE INITIAL ELECTION UNDER THESE BYLAWS AS ADOPTED - At this election all 15 directorships are to be filled by balloting of the membership as provided in Article IX. 5 seats shall be designated as Class A Directorships, five as Class B Directorships and 5 as Class C Directorships. Upon the qualification of the directors thus elected this section shall be stricken from the ByLaws. [Adopted March 2004.]

SECTION 4. QUALIFICATIONS FOR DIRECTORS. All Directors must be regular members in good standing in WAP throughout the time that they are standing for election to the Board. Notwithstanding Articles VII and VIII of these Bylaws, any Director who ceases to be a regular member in good standing shall be deemed to have vacated the directorship effective as of the date he or she ceased to be a regular member in good standing. [Added March 2004.]

SECTION 5. REMOVAL. A Director may be removed at any time, with or without cause, either at a Regular Membership Meeting or at a Special Membership Meeting called for such purpose. A quorum being present, a Director may be removed by the 2/3 majority vote of regular members in good standing present and voting. [Amended March 1993, February 1994 and March 2004.]

SECTION 6. VACANCIES. Upon the resignation or removal of a Director, the Board of Directors shall appoint an eligible member to serve for the unexpired portion of the term of the a vacant Directorship. [Amended March 1993, March 2004.]

SECTION 7. REGULAR MEETINGS. Regular meetings of the Board of Directors shall be held monthly, unless otherwise determined by the Board of Directors. Regular meetings shall be held, at such time and place as may be determined by the Board of Directors, without further notice.

SECTION 8. SPECIAL MEETINGS. Special meetings of the Board of Directors may be called by the President, a Vice-President or two or more Directors with at least seven (7) days notice to each Director, if such notice is delivered personally, by telegram, by telephone, or by e-mail or on fourteen (14) days notice if sent by mail or published in the WAP Journal. No business other than that stated in such

notice shall be conducted. [Amended March 2004.]

SECTION 9. CONDUCT OF MEETINGS. The president of Washington Apple Pi shall preside at meetings of the Board of Directors. Should the President be absent, one of the vice presidents will preside. A majority of the Directors currently in office (not counting vacancies) shall constitute a quorum. Meetings of the Board of Directors shall be open to the Corporation's regular members, except that upon majority vote, the Board of Directors may enter executive session to transact business which the Board determines to be confidential. [Amended June 1984, August 1989, February 1994, and March 2004.]

SECTION 10. ACTION BY CONSENT. Any action required or permitted to be taken at any meeting of the Board of Directors may be taken without a meeting if a unanimous, written consent to such action is signed by all members of the Board of Directors and such written consent is filed with the minutes of the proceedings of the Board. Electronic mail messages shall be deemed to be "written consent" within the meaning of this Article. [Amended July 1991 and March 2004.]

SECTION 110. PROXIES. Participation in a Board of Directors meeting requires personal attendance. No Director may vote by proxy at a meeting of the Board of Directors. [Amended July 1991.]

ARTICLE VIII - OFFICERS

SECTION 1. ELECTION OF OFFICERS. The Board shall by a simple majority at its first meeting of its term elect, from among its membership, the officers described in the remainder of this Article. [Added March 2004.]

SECTION 2 DESIGNATION AND TENURE. The Officers of the Corporation shall be the President, four Vice-Presidents, the Secretary, and the Treasurer. An officer shall serve a term of one year and until a successor is appointed and qualified before the Board. No individual may serve as an Officer who is not currently a Director. [Amended June 1984, June 1988, June 1990, March 1993, February 1994, March 1999 and March 2004.]

SECTION 3. REMOVAL OR VACANCY. The Board of Directors may by a 2/3 majority vote of all members of

the Board of Directors remove any officer of the Corporation if the Board finds in its judgment that the best interests of the corporation will be served by doing so. If any office becomes vacant for any reason, the Board of Directors shall appoint an eligible member of the Board of Directors to fill that vacancy. [Amended June 1984, June 1988, June 1990, March 1993, February 1994, March 1999 and March 2004.]

SECTION 4. PRESIDENT. The President shall, subject to the Bylaws and the control of the Board of Directors, have general charge of the business affairs and property of the Corporation with general supervision over its other officers and agents. No individual shall be elected to the office of President who has not served as a Director for at least one year preceding the term for which they are elected. If the Corporation is unable to elect a President the Board of Directors shall dissolve it in accordance with Maryland law. [Amended August 1989, June 1990 and March 2004.]

SECTION 5. VICE-PRESIDENTS. There shall be four Vice-Presidents: Programs, Membership, Volunteer Services, and Publicity. The Vice-Presidents shall serve as assistants to the President and shall oversee and coordinate such programs, activities and other duties as may be delegated to them by the Board of Directors or the President. [Amended June 1984, July 1988, June 1990, March 1999, and March 2004.]

SECTION 6. SECRETARY. The Secretary shall give, or cause to be given, notice of Special Membership Meetings and of Special Board of Directors meetings. The Secretary shall keep the minutes of the meetings of the members and the Board of Directors. The Secretary shall send copies of the minutes of all meetings to the Board of Directors and shall also see that the books, reports, statements and all other documents required by law are properly kept and filed. The Secretary shall perform such other duties as may be delegated by the President or the Board of Directors. The Secretary may appoint one or more assistants. [Amended June 1990 and March 2004.]

SECTION 7. TREASURER. The Treasurer shall have custody of the corporate funds and other valuable effects, shall keep full and accurate accounts of receipts and disbursements in books belonging to the Corpora-

tion and shall deposit all moneys and other valuable effects in the name and to the credit of the Corporation in such depositories as may be designated by the Board of Directors. The Treasurer shall have the authority to disburse checks as provided in Article XII hereof. The Treasurer shall maintain a system of internal fiscal control and shall report regularly to the Board of Directors on the expenses and financial condition of the Corporation. The Treasurer shall perform such other duties as may be delegated by the President or the Board of Directors. The Treasurer may appoint one or more assistants. [Amended June 1990 and March 2004.]

ARTICLE IX - ELECTIONS

SECTION 1. SCOPE. An election shall be held annually for a number of Directors sufficient to ensure that the composition of the Board adheres to the requirements set forth in Article VII Section 2 and 3. Each individual who is a regular member in good standing on April 8 shall have a ballot made available to him or her. The election shall be concluded, to the extent possible, by May 31 of each year in order to allow those elected to begin their terms on June 1. The newly elected Board of Directors may, at their first regular meeting of the term, appoint any qualified members to fill any vacant directorships remaining after the election, pursuant to Article VII. [Amended February 1994, March 1999 and March 2004.]

SECTION 2. DELEGATION. The Board of Directors (the Board) shall appoint an Election Committee composed of at least three members in good standing who are not candidates in the election. This committee shall be charged with conducting a fair, impartial and timely election. Within rules, policies and procedures established by these Bylaws and the Board, the Election Committee shall have discretion to conduct the election as it sees fit.

The Board shall also appoint an Election Review Committee composed of at least three members in good standing, none of whom is a candidate, an Election Committee member or a Board member, to hear and resolve protests that might arise during the course of an election. The Election Review Committee acts pursuant to Section 7 of this Article. Any dispute regarding the eligibility of a candidate or voter shall be resolved by the Board.

SECTION 3. NOMINATIONS. Nominations for Directorships must be received by the Secretary by the Close of Business on the date of the February General Membership Meeting. Regular members in good standing may nominate themselves or others. [Amended February 1994 and March 2004.]

SECTION 4. SUBMISSIONS. As soon as possible after the conclusion of nominations, the Election Committee shall ascertain which nominees wish to stand for election as candidates. The Election Committee shall apprise the candidates of the rules and timetable for the election, and shall solicit from the candidates whatever declarations, certifications, statements, disclosures or other information as may be permitted or required by the Election Committee, the Board or these Bylaws. This information shall be held in confidence by the Committee until the deadline for its receipt or until all such information is received. [Amended March 2004.]

SECTION 5. BALLOTING. The Election Committee shall supervise and have responsibility for the production, distribution, collection and accurate counting of election material. The Election Committee shall, subject to the instructions of the Board, set a time in the month of May by which ballots must be received to be valid and counted. The Election Committee is authorized to rule on the validity and intent of each returned ballot. Ballots with more than the appropriate number of votes for each class of directorship (one year term, two year term, three year term) shall be deemed to be invalid. [Amended March 1999 and March 2004.]

SECTION 6. RESULTS. For those Directorships being contested the appropriate number of eligible candidates with the greatest number of votes and the votes of at least 3% of all eligible voters shall be elected Directors. The Election Committee shall certify the results of the election of Directors to the membership as quickly as possible but no later than ten days after the deadline for the receipt of ballots. The Election Committee shall present to the new Board at its first regular meeting of the term the results of the election. The Election Committee shall apprise the Board of anyone elected by the membership who declined to accept election or who appears not to be eligible to serve, so that the Board may declare their positions vacant. [Amended March 1999 and March 2004.]

SECTION 7. PROTESTS. Any candidate for any position that believes that a specific fault in the election caused, or would cause, him or her to lose the election may petition for review. Petitions must be submitted immediately upon discovery of the fault so that timely corrective action, if warranted, may be taken. The Secretary and the Board shall promptly forward such petitions to an Election Review Committee (ERC) formed pursuant to Section 2. The ERC shall render an opinion as to whether or not such a fault exists, and, if so, what an appropriate remedy for the fault shall be, if any. Before votes are counted, the ERC may instruct the Election Committee to (a) extend any deadline by up to one month, with or without further notice, notwithstanding any other provision of the Bylaws, (b) report "no winner" in any officer race, or (c) certify fewer than the number of Directors required by Article VII. The ERC may not spend or cause to be spent more than \$100 without concurrence of the Board of Directors. In the absence of protests, the ERC dissolves at the first regular meeting of the term of the new Board. [Amended March 1999.]

ARTICLE X - SPECIAL INTEREST GROUPS

SECTION 1. FORMATION. The Board of Directors may establish special interest groups (SIGS) to provide a forum for exploring topics of special concern to a portion of the membership. Among the factors to be considered by the Board of Directors in recognizing a new special interest group are: whether the group conducts regularly scheduled meetings which it announces in the WAP Journal and whether it has at least five members.

SECTION 2. ORGANIZATION. Each special interest group shall elect from among its members a Chairman and Journal Columnist. The election of special interest group officers shall be conducted annually during the month of October, under the supervision of the Board of Directors. Each special interest group shall publish an account of its activities in the WAP Journal. [Amended November 1983.]

SECTION 3. LIMITATION OF AUTHORITY. No special interest group shall act in the name of or take any action which would bind the Corporation.

SECTION 4. DUES. No special interest group shall collect dues or contributions without the permission of the

Board of Directors. [Amended December 1982.]

ARTICLE XI - COMMITTEES

SECTION 1. STANDING COMMITTEES. Several standing committees shall see to the continuing operations of key programs. These shall include the Events Committee, the Operations Committee, the Publications Committee, the Telecommunications Services Committee, and the Tutorials Committee. The Board of Directors may appoint other standing committees. All standing committees are required to have at least three members. Purpose statements and contact points for all standing committees shall be published in the Journal and on the Pi web site. [Adopted March 2004.]

SECTION 2. SPECIAL COMMITTEES. The Board of Directors may create special committees, and appoint their chairpersons. The tenure of these committees shall expire along with that of the Board that appointed them, or shall be terminated upon completion of their established task, as ratified by the Board of Directors. [Adopted March 2004.]

SECTION 3. EVENTS COMMITTEE. The standing Events Committee shall host the WAP Computer Show and Sale and other special events, and oversee other fundraising projects of the club including product sales, subject to the general policy direction of the Board of Directors. [Adopted March 2004.]

SECTION 4. OPERATIONS COMMITTEE. The standing Operations Committee shall be responsible for day-to-day function of the business office, including processing memberships, maintaining office supplies, and routing telephone, e-mail, and written inquiries, subject to the general policy directions of the Board of Directors. All groups and individuals which enter the facilities are responsible for cleaning up after themselves, and for securely locking all doors. [Adopted March 2004.]

SECTION 5. PUBLICATIONS COMMITTEE. The standing Publications Committee shall be responsible for publications representing the official image and voice of WAP to members and the public, subject to the general policy directions of the Board of Directors. The committee's responsibilities shall include the Journal, flyers, forms, electronically mailed an-

nouncements, and other official literature including content published on the World Wide Web. [Adopted March 2004.]

SECTION 6. TELECOMMUNICATIONS SERVICES COMMITTEE. The standing Telecommunications Services Committee (TCS Committee) shall operate the electronic services and infrastructure needed for electronic communications between members and with the broader Internet. The committee shall establish policy for these services, facilities and operations, subject to the general policy directions of the Board of Directors. The committee shall seek to include all interested members whenever possible while minimizing potential risks to the continuity of these services and operations. The committee shall appoint a chairman with the advice and consent of the Board of Directors. [Adopted June 1986. Amended June 1990 and March 2004.]

SECTION 7. TUTORIALS COMMITTEE. The standing Tutorials Committee shall operate a tutorial program for the purpose of providing education and instruction in computer-related subjects. The committee shall design and conduct the program subject to the general policy direction of the Board of Directors. The committee shall be responsible for installation, updates and maintenance of tutorial computers. [Amended June 1984, July 1988, August 1989, June 1990 and March 2004.]

ARTICLE XII - FISCAL CONTROL

SECTION 1. DISBURSEMENTS. Disbursements over \$25.00 shall be made only by check. Any disbursement over \$5.00 shall be supported by voucher or receipt. All checks, drafts, notes and evidence of indebtedness of the Corporation shall be signed by the Treasurer and either the President or one of the elected Vice-Presidents. However, checks in an amount not to exceed \$6,000 may be signed by either the Treasurer or by both the President and one of the elected Vice-Presidents. Designated staff shall have the authority to sign checks in an amount not to exceed \$6,000.00 from an imprest fund established by the Treasurer or from such other accounts as the Board of Directors may by resolution determine. [Amended April 1983, June 1983, January 1984, October 1986, February 1987, March 1993 and March 1999.]

SECTION 2. ANNUAL BUDGET. Prior to the commencement of each fiscal year, The Board of Directors shall prepare an estimated budget for the following fiscal year for the approval of a majority of those present and voting at a Membership Meeting.

SECTION 3. FISCAL YEAR. The fiscal year of WAP shall be from June 1 to May 31. [Amended March 1986.]

SECTION 4. CAPITAL EXPENDITURES. Capital expenditures in excess of \$1,000.00 must be approved by a majority of those present and voting at a Membership Meeting. Approval of a line item in the annual budget shall constitute membership approval of a capital expenditure.

ARTICLE XIII - NOTICE

SECTION 1. FORM OF NOTICE. Whenever under the provision of law, the Articles of Incorporation or these Bylaws, notice is required to be given to any Director or member, such notice may be given by publication in the WAP Journal or in writing, by mail addressed to such Director, officer or member, at his post office address as it appears on the records of the Corporation. Such notice shall be deemed to be given at the time it is deposited in the United States mail. Notice may also be given personally or by telephone or telegram.

SECTION 2. WAIVER. Whenever notice is required under the provision of law, the Articles of Incorporation or these Bylaws, a written waiver of the notice, signed by the individual entitled to the notice, whether before or after the fact, shall be deemed to be the equivalent of such notice. Any member or Director who attends a meeting, without protesting the commencement of the meeting or the lack of notice shall be conclusively deemed to have waived notice of such meeting. [Amended March 2004.]

ARTICLE XIV - INDEMNIFICATION

The Corporation shall, to the extent legally permissible, indemnify and hold harmless any individual serving or who has served as a director, officer or duly authorized agent of the Corporation against all liabilities and expenses, including amounts paid in satisfaction of judgments, in compromise or as fines and penalties, and counsel fees, reasonably incurred by him in

connection with the defense or disposition of any claim, action, suit or other proceeding whether civil or criminal, in which he may be involved or with which he may be threatened, while serving or thereafter, by reason of his being or having been such a director, officer or agent, except with respect to any matter as to which he shall have been adjudicated in any proceeding not to have acted in good faith in the reasonable belief that his action was in the best interests of the Corporation. [Amended March 2004.]

Expenses, including counsel fees, reasonably incurred by any such director, officer or agent in connection with the defense or disposition of any such claim, action, suit or other proceeding may be paid from time to time by the Corporation in advance of the final disposition thereof upon receipt of an undertaking by such individual to repay the Corporation the amounts so paid if it ultimately determined that indemnification of such expenses is not authorized herein. The right of indemnification hereby provided shall not be exclusive of or affect any other rights to which any such director, officer, or agent may be entitled. As used in this Article, the terms "director," "officer" and "agent" include their respective heirs, executors and administrators.

The Corporation may, at the election of the Board of Directors, purchase and maintain insurance on behalf of any individual who is or was a director, officer, employee or agent of the Corporation or who is or was serving at the request of the Corporation as a director, officer or agent of another corporation, partnership, joint venture, trust or other enterprise against any liability asserted against him and incurred by him in or arising out of his position, whether or not the Corporation would be obligated or empowered to indemnify him against such liability under this Article XIV.

ARTICLE XV - AMENDMENT

The Board of Directors or the membership may amend these Bylaws at any General Meeting

or at a Special Meeting Called for that purpose by an affirmative vote of two-thirds of those Regular Members in good standing present and voting. Notice of all Bylaw amendments shall be published 14 days before the General meeting on the TCS and by electronic announcement. The complete, amended Bylaws shall be published in the next Washington Apple Pi Journal following the change. A current version of the Bylaws shall be posted on the Washington Apple Pi web page. [Amended March 2004.]



Steve Jobs replays the legendary '1984' commercial from 20 years ago, with one little added twist.. Many at the Macworld San Francisco keynote didn't notice the changes to the commercial. (Photo by Craig Contardi, taken with an Olympus C2100UZ digital camera.)

Washington Apple Pi Tutorials March-May 2004

Sign-ups

TO SIGN UP for a class, call the Washington Apple Pi office on Monday, Wednesday, or Friday from 10:00 a.m. to 2:00 p.m. Our volunteers will enroll you in the class and they can take credit card payments by phone. You can also sign up by sending an e-mail to tutorials@wap.org. Include your name, address, phone number, WAP membership number and the name and date of the class you want to take. Then mail a check for the class fee to Washington Apple Pi Tutorials, 12022 Parklawn Drive, Rockville MD 20852. Make the check payable to Washington Apple Pi and please send a separate check for each class you are signing up to take. Your credit card will be charged or your check will be deposited on the day of the class.

Cancellations

Class will be canceled if there are less than three participants signed up 3 days before the class. You will be notified by an e-mail message or a phone call no later than the day before the class regarding the cancellation. You will also be notified by e-mail when there are enough participants for the class to be held.

If you decide not to take a class, you must cancel your registration in a class 48 hours before its starts in order not to be charged for the class. In the case of illness or extreme circumstances, this policy can be reviewed. Send a message to tutorials@wap.org and include your phone number.

Inclement Weather Policy

In the case in inclement weather, Washington Apple Pi classes are canceled if school is canceled or delayed for two hours in Montgomery County or Fairfax County Public Schools. If the schools in either county open one hour late, all WAP daytime classes will begin one hour late. If evening activities are canceled for the schools, all WAP classes are also canceled. If weekend activities are canceled for the schools, all Washington Apple Pi

classes are canceled. Classes canceled due to inclement weather will be rescheduled. You will receive a phone call or e-mail with further information.

Introductory Classes

There are two distinct class series at this level. The Mac Basics classes are taught at a slower pace with class time devoted to practicing concepts as they are taught. The Mac OS X classes are for users with more computer experience. The pace is faster and each topic is covered in more depth. The four Mac Basics classes should be taken in order. The same is true for the three Mac OS X classes. It is suggested that everyone take the Understanding Mac OS X class before beginning the Mac OS X series, but the class is not mandatory.

If you desire classes for Mac OS 9 or earlier, please call the office to have your name placed on the list for those classes. You will be contacted when there are three or more people who desire to take the class.

All classes at Washington Apple Pi are limited to no more than six students.

Introductory Classes

Mac Basics 1 - The Finder, Menu Bars, Windows and
Mon, Mar 15, 2004, 1:00 PM to 4:00 PM or
Mon, Apr 12, 2004, 9:30 AM to 12:30 PM or
Thu, May 6, 2004, 1:00 PM to 4:00 PM

Learn the finer points of making music, data and video CDs in this three hour class. Learn all about Roxio Toast Titanium 6 and the Apple Disc Burner software. Learn how prepare data, optimize files and make labels too. This course is offered as one three hour session.

Instructor: Pat Fauquet

Member Cost: \$50.00, Others: \$100.00

Course Prerequisites: None

Mac Basics 2 - Introductory Word Processing

Wed, Mar 17, 2004, 1:00 PM to 4:00 PM or
Wed, Apr 14, 2004, 9:30 AM to 12:30 PM or
Thu, May 13, 2004, 1:00 PM to 4:00 PM

This is a hands-on class for the novice who needs help getting started with their computer. It is designed for the person with little or no background with computer use. The purpose of the class is to make a person feel comfortable and secure with their Macintosh. The subjects covered will include how to format documents, how to save documents, how to spell-check documents, and how to print documents.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)

Member Cost: \$50.00, Others: \$100.00

Prerequisites: Mac Basics 1

Mac Basics 3 - Folders, Views, Files and Finding

Mon, Mar 22, 2004, 1:00 PM to 4:00 PM or
Mon, Apr 19, 2004, 9:30 AM to 12:30 PM or
Thu, May 20, 2004, 1:00 PM to 4:00 PM

This is a hands-on class for the novice who needs help getting started with their computer. It is designed for the person with little or no background with computer use. The purpose of the class is to make a person feel comfortable and secure with their Macintosh. The subjects covered will include how to use Folders to keep your computer organized, how to use the Views options to enhance your user experience, and how to find files on your computer.

Mac Basics 4 - If Something Goes Wrong

Mon, Mar 1, 2004, 9:30 AM to 12:30 PM or
Wed, Mar 24, 2004, 1:00 PM to 4:00 PM or
Wed, Apr 21, 2004, 9:30 AM to 12:30 PM or
Thu, May 27, 2004, 1:00 PM to 4:00 PM

This is a hands-on class for the novice who needs help getting started with their computer. It is designed for the person with little or no background with computer use. The purpose of the class is to make a person feel comfortable and secure with their Macintosh. The subjects covered will include common computer and printer problems and how to fix them, how to reset your user password, and how to start your computer from the Apple Restore CD that came with your computer.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)
Member Cost: \$35.00, Others: \$85.00
Prerequisites: Mac Basics 1, 2 and 3

Mac OS X 1- The Finder, Menus and the Dock

Thu, Mar 11, 2004, 9:30 AM to 12:30 PM or
Thu, Apr 8, 2004, 9:30 AM to 12:30 PM or
Mon, Apr 12, 2004, 1:00 PM to 4:00 PM or
Thu, May 6, 2004, 9:30 AM to 12:30 PM

This is the first in a series of classes covering Mac OS X. This class covers the menu bar, dock, and finder window. Students will learn their functions how to customize them fit the work style of the computer user. Everyone is encouraged to attend this class before continuing on in the WAP Tutorial Program.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills

Mac OS X 2 - Users, Saving, and Finding

Thu, Mar 18, 2004, 9:30 AM to 12:30 PM or
Wed, Apr 14, 2004, 1:00 PM to 4:00 PM or
Thu, Apr 15, 2004, 9:30 AM to 12:30 PM or
Thu, May 13, 2004, 9:30 AM to 12:30 PM

This class is intended for users who have a good basic understanding of Mac OS X. It will include in-depth coverage of the Users folder and what it contains, how to save and file documents, how and why to use file extensions, and how to find files by name, date, type and content.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills

Mac OS X 3 - Using the System Preferences

Wed, Mar 3, 2004, 1:00 PM to 4:00 PM or
Thu, Mar 25, 2004, 9:30 AM to 12:30 PM or
Mon, Apr 19, 2004, 1:00 PM to 4:00 PM or
Thu, Apr 22, 2004, 9:30 AM to 12:30 PM or
Thu, May 20, 2004, 9:30 AM to 12:30 PM

In this class we will go through the System Preferences application, spending time on each item located in it.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills

Continuing Macintosh

Understanding Mac OS X

Thu, Mar 11, 2004, 1:00 PM to 4:00 PM or
Thu, Apr 1, 2004, 9:30 AM to 12:30 PM

This class is recommended for users who are upgrading their older computers to Mac OS X or for those who are buying a new Mac and who are planning to use their older software. The class will include an overview of Mac OS 9 and Mac OS X and the Classic Environment; an overview of Classic, Carbon and Cocoa applications; and an overview of the Users Folder and its Contents
Instructor: Jim Ritz

Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills

Getting the Most from Your .Mac Account

Wed, Mar 31, 2004, 9:30 AM to 4:00 PM

Apple's .Mac accounts have so many uses and features. Are you getting the full value of your account? Come learn how to access your mail and address book and calendar from any computer, share your photos and files with family and friends and back up your important documents and files. Learn how to use Virex and keep it up to date. Learn about the dotmac.info web site and learn about the things hidden in your iDisk. Bring your digital camera full of images, a Zip 100 MB Disk or CD with digital images to use in class. This course is six hours long. It will be taught either as an all-day class or in two three hour sessions.

Instructor: Pat Fauquet
Member Cost: \$100.00, Others: \$150.00
Course
Prerequisites: Intermediate Macintosh Skills

All About Printing

Wed, Apr 21, 2004, 1:00 PM to 4:00 PM
There can be more to printing than just pressing Command P. This class will cover how to download and install printer updates, how to set up and use multiple printers, using printer options available in various applications, monitoring the printing process and fixing printer problems. Paper and ink selection and how to get the best photo prints will also be covered.

Instructor: Pat Fauquet
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills

Customizing Your Mac Environment

Wed, Mar 3, 2004, 9:30 AM to 12:30 PM
or

Thu, Apr 29, 2004, 1:00 PM to 4:00 PM
In this class we discuss the various things within Mac OS X than can be used to customize your computer's appearance. Topics will include the Desktop and Screen Saver system preference and their use in customizing your Finder; customizing View preferences, toolbars and the dock; custom highlight colors and sounds, smart scrolling, font smoothing, icons, and additional software to enhance the user experience.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Mac Skills

Getting Organized and Backing Up Your Data

Wed, Mar 17, 2004, 9:30 AM to 11:00 AM
This class is an introduction to procedures that increase the efficiency of the Macintosh user's experience and in methods of archiving user data. We will discuss what a hard-drive is and how it stores information, where things are stored in Mac OS X, Mac OS X Libraries and what is stored in them, proper backup procedures and methods of performing backups.

Instructor: Pat Fauquet
Member Cost: \$25.00, Others: \$75.00
Prerequisites: Intermediate Macintosh Skills



Paul Kent of IDG (sponsor of Macworld), Web Bixby (CEO of Generations Bank, which was a party sponsor), and Shawn King get ready to collaborate on a bluesy melody at a Macworld San Francisco after-hours party. (Photo by Craig Contardi, taken with an Olympus C5050Z digital camera.)

Installing Updates, Downloads, and Software

Thu, Apr 8, 2004, 1:00 PM to 4:00 PM
This class is an introduction to the types and methods of installing updates and software in Mac OS X. Discussion will include installing System Updates in Mac OS X, the use of .dmg and package files, how to deal with compressed and encoded downloads, installing from CDs, custom Installations, uninstalling software, finding and installing application updates and finding and installing printer, scanner and other hardware driver updates.

Instructor: Jim Ritz
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills

Lets Burn Some CDs

Mon, Mar 1, 2004, 10:00 AM to 4:00 PM
Learn the finer points of making music, data and video CDs in this three hour class. Learn all about Roxio Toast Titanium 6 and the Apple Disc Burner software. Learn how prepare data and make labels too. This course is offered as one three hour session.

Instructor: Pat Fauquet
Member Cost: \$50.00, Others: \$100.00 Prerequisites:

PDF files, Mac OS X Preview and Acrobat Reader

Wed, Mar 17, 2004, 11:15 AM to 12:45 PM

This class will cover how to make pdf files in Mac OS X, how to use Mac OS X preview to search and read files, and how to use Adobe Acrobat reader to use text and images from pdf files.

Instructor: Pat Fauquet

Member Cost: \$25.00, Others: \$75.00

Prerequisites: Intermediate Mac Skills

Surfing with Safari

Thu, Mar 4, 2004, 12:45 PM to 2:15 PM or

Mon, Mar 22, 2004, 9:30 AM to 11:00 AM or

Thu, Apr 22, 2004, 3:00 PM to 4:15 PM

Safari, Apple's Mac OS X browser application, has become the most popular Mac browser in less than a year. This class will include tips for customizing the toolbar, working with AutoFill forms and passwords, blocking pop-up windows, organizing bookmarks tabbed browsing, and using other program features.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)

Member Cost: \$25.00, Others: \$75.00

Prerequisites: Intermediate Mac Skills

Using Mail and the Address Book in Mac OS X

Mon, Mar 22, 2004, 11:15 AM to 12:45 PM

This class covers Mac OS X's Mail and the Address Book. Topics discussed include the interactions between the programs and customizations and options that are available in them. Students will learn how to organize and archive email, how to add email addresses, set up email to groups of recipients, and how to attach files.

Instructor: Pat Fauquet

Member Cost: \$50.00, Others: \$100.00

Prerequisites: Intermediate Macintosh Skills

Using Palm based PDA and Phones with the Mac

Mon, May 17, 2004, 1:00 PM to 4:00 PM

Mac OS X, The Address Book, iCal and iSync heighten the Palm users interaction between their PDAs and computers. Student in this class will learn how to export their Palm Desktop data to iCal and the Address Book and then how to use iSync and the Palm Desktop software to sync and upload files to the phones and PDAs.

Instructor: Pat Fauquet

Member Cost: \$50.00, Others: \$100.00

Prerequisites: Intermediate Mac Skills

Using the Address Book and iCal

Thu, Mar 18, 2004, 12:45 PM to 2:15 PM or

Wed, Mar 24, 2004, 9:30 AM to 11:00 AM or

Mon, May 17, 2004, 9:30 AM to 12:30 PM

Mac OS X includes iCal and the Address book. In addition to personal organization, these applications can be used to print a variety of items and they can be used to synchronize the information between various devices. This class will help you learn to use these data gathering programs more efficiently.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)

Member Cost: \$25.00, Others: \$75.00

Prerequisites:

Using the Mac OS X Classic Environment

Thu, Mar 4, 2004, 12:45 PM to 2:15 PM or

Thu, Mar 18, 2004, 2:30 PM to 4:00 PM or

Wed, Mar 24, 2004, 11:15 AM to 12:45 PM or

Thu, Apr 22, 2004, 1:00 PM to 2:45 PM

This class is for Mac OS X users who have many Classic applications that they plan to continue using. Topics to be covered include memory, control panel and extension management, finding and installing necessary updates and finding Mac OS X applications that can replace older applications.

Instructor: Pat Fauquet (Mon, Wed) or Jim Ritz (Thu)

Member Cost: \$25.00, Others: \$75.00

Prerequisites: Intermediate Macintosh Skills

Troubleshooting Computer and Printer Problems

Thu, Mar 4, 2004, 9:30 AM to 12:30 PM or

Thu, Mar 25, 2004, 1:00 PM to 4:00 PM or

Thu, Apr 29, 2004, 9:30 AM to 12:30 PM or

Thu, May 27, 2004, 2004, 9:30 AM to 12:30 PM

This class will cover how to recognize potential problems, how to use the Mac OS X CD to repair directory problems and reset passwords, how to recognize and solve preference file issues and how to solve printer issues.

Instructor: Jim Ritz

Member Cost: \$50.00, Others: \$100.00

Prerequisites: Intermediate Mac Skills

Advanced Mac

Installing Mac OS X on an Older Mac

Thu, Apr 1, 2004, 1:00 PM to 4:00 PM

This class will include lecture and a demonstration of the installation process. Topics to be covered include computer requirements for Mac OS X, preparing your computer for the upgrade, installation of Mac OS X and set-up and customization.

Instructor: Jim Ritz

Member Cost: \$50.00, Others: \$100.00

Prerequisites: Advanced Macintosh Skills

Mac OS X - Airport Networks, Sharing Files and

Mon, Mar 15, 2004, 9:30 AM to 12:30 PM

Apple's Airport Base Stations allow the user to easily set up home networks to share files and printers. This class will cover the use of the applications provided by Apple for setting up and using your network. We will also discuss security issues, printer sharing, and general guidelines for adding PCs with wireless cards to an Airport network will also be discussed. This class will NOT cover how to setup Macintosh wireless networks using third party wireless devices. Instructor: Pat Fauquet Member Cost: \$50.00, Others: \$100.00 Prerequisites: Advanced Macintosh Skills

Digital Imagery

Using iPhoto

Mon, May 24, 2004, 1:00 PM to 4:00 PM

Learn to use iPhoto to import, organize, edit and share your digital images from cameras, scanners and Picture CDs. Learn how to make slideshows, books and prints. Bring your digital camera full of images or a Photo CD to learn how do these projects. This course is offered as one three hour session.

Instructor: Pat Fauquet Member Cost: \$50.00, Others: \$100.00 Prerequisites: Intermediate Macintosh Skills

Fun With Your Scanner

Mon, May 24, 2004, 9:30 AM to 12:30 PM

Bring your scanner, its software, cables and power supply and explore what you can do with it. Bring a few pictures that you would like to fix, some printed material you would like to convert to text and bring a few small items you would like to have "pictures" of. We will have a "scanning" good time! This course is taught in one three hour session.

Instructor: Pat Fauquet Member Cost: \$100.00, Others: \$150.00 Course Prerequisites: Mastering OS 9 or Mastering OS X .



Paul Kent of IDG (the company responsible for Macworld) is a mild-mannered techie by day, but on certain moonlit nights, he's the frontman for the Silicon Valley Houserockers, who provided the entertainment at the Your Mac Life Rocks Expo party. (Photo by Craig Contardi, taken with an Olympus C5050Z digital camera.)

How to Fix a Bad Photo

Wed, May 26, 2004, 9:30 AM to 12:30 PM

Not all photos can be rescued, but using the levels adjustment tool can do a lot to fix your photos quickly and easily. You will also learn when and how to sharpen an image and how to crop and straighten images effectively using iPhoto and Adobe Photoshop Elements or Adobe Photoshop. Bring your digital camera full of images, a Zip 100 MB Disk or CD with digital images to use in class. This course is offered as one three hour session.

Instructor: Pat Fauquet Member Cost: \$50.00, Others: \$100.00 Prerequisites: OS 9 or OS X Four Part New User Series

Selections and Layers in Photoshop Elements

Wed, May 26, 2004, 1:00 PM to 4:00 PM

The ability to add layers to an image and then to work one each layer individually demonstrates the real power of Photoshop Elements. In this class we will use layers to adjust parts of an image and add elements such as type and a different background to images. Bring your digital camera full of images or a zip or CD with digital images to use in class. This course is offered as one three hour session.

Instructor: Pat Fauquet Member Cost: \$50.00, Others: \$100.00 Prerequisites: Mastering OS X and How to Fix a Bad Photo

Web Pages with iPhoto, iDisk and .Mac Homepage

Mon, Mar 29, 2004, 9:30 AM to 4:00 PM
Calling all .Mac users. This is your chance to make easy web pages and share them with family and friends. Bring your digital camera full of images or a zip or CD with digital images and by the time class is over you will have not only a web page, but a web site! This course is six hours long. It will be taught either as an all-day class or in two three hour sessions.

Instructor: Pat Fauquet
Member Cost: \$100.00, Others: \$150.00
Course Prerequisites: OS 9 or OS X New User Series or intermediate computer skills.

Digital Video

iMovie, The Basics

Mon, Apr 26, 2004, 9:30 AM to 12:30 PM
This class will introduce students to the basic concepts of Apple's iMovie software. Using provided movie clips, students in this hands-on class will learn to edit and arrange video clips into a sequence of their choosing and preview their movie production.
Instructor: Pat Fauquet
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Mac Skills

Adding Transitions and Effects to iMovies

Mon, Apr 26, 2004, 1:00 PM to 4:00 PM
In addition to learning how use the transitions and effects included in iMovie, students will learn how to select, install and use third party additions to iMovie. They will also learn how extend clips that are too short, how to lighten, darken and sharpen clips and when effects and transitions are most effective.
Instructor: Pat Fauquet
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills and iMovie, the Basics

Making iMovie Title Screens

Wed, Apr 28, 2004, 9:30 AM to 12:30 PM
While the titles included in iMovie work in many situations, sometimes a video needs that special title. Students will learn how to use photos, paint programs and third party iMovie titling tools to finish that special video.
Instructor: Pat Fauquet

Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills and iMovie, the Basics

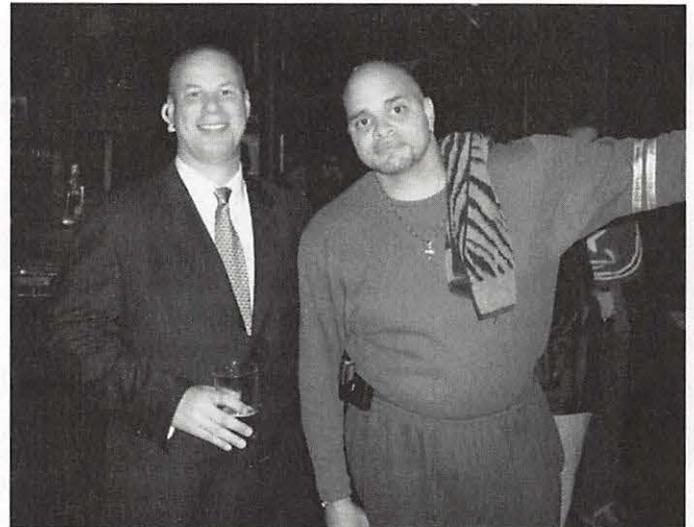
Making Slideshows with iMovie

Wed, Apr 28, 2004, 1:00 PM to 4:00 PM
Bring some digital photos to learn how to make a video from you them. We will edit the photos, add transitions, effects, voice and music to complete a project that friends and family will want to watch.
Instructor: Pat Fauquet
Member Cost: \$50.00, Others: \$100.00
Prerequisites: Intermediate Macintosh Skills and iMovie, the Basics

Productivity

Introduction to Spreadsheets

Thu, Apr 15, 2004, 1:00 PM to 4:00 PM
This class will introduce basic spreadsheet concepts. Students will learn how to set up a spreadsheet, how to enter and edit numbers and words, how to enter basic formulas and make basic charts and graphs. They will learn how to sort data and how to print the whole spreadsheet or only a portion of it. Students will use either the spreadsheet module of AppleWorks (ClarisWorks) or Excel. This class is not meant for persons who are intermediate or advanced users. This course is taught in one three hour session.
Instructor: Jim Ritz
Member Cost: \$50.00, Others: \$100.00
Course Prerequisites: Mastering OS 9 or Mastering OS X ■



Your Mac Life Host Shawn King and Actor/Comedian Sinbad at the Your Mac Life Rocks Expo bash held on the evening of January 8th during Macworld San Francisco. (Photo by Craig Contardi, taken with an Olympus C5050Z digital camera.)

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Classifieds

Classified advertisements can be placed by mailing copy to the business office of Washington Apple Pi, Ltd., 12022 Parklawn Drive, Rockville, MD 20852. Be sure to include your WAP membership number and indicate area codes with your phone numbers. Ads must be received by the ad copy due date listed in the calendar page for that month in order to be included in the appropriate issue. Any ads postmarked after that time will be included at the discretion of the editor. Cost is \$2.00/line (40 characters per line), maximum 12 lines. Members of Washington Apple Pi, Ltd., may place ads up to three lines at no charge. The editor reserves the right to refuse any ads deemed inappropriate.

For Sale

—**Final Cut Express (original in box)**, \$150 OBO, 15" Apple Studio CRT Display, \$50 OBO, Lynn Trusal 301 972 6137.

—**Computers on Demand**
Used Macs, Powerbooks & Peripherals. We Buy, Sell, Trade, Repair & Upgrade all Mac Equipment. Call for Quotes. All Major Credit Cards Accepted (301) 718-0822

—**AppleWorks Users Group Discount:** WAP members receive a \$5 a year discount on their AWUG (AppleWorks Users Group) membership and renewals as a benefit of their WAP membership. WAP members must identify themselves as such and then deduct \$5 from their \$39.95 AWUG membership dues when they join or renew. Contact the AppleWorks Users Group at Box 701010, Plymouth, Michigan 48170; (888) 781-AWUG; Fax: (734) 454-1965; email: <membership@awug.org> or website <www.awug.org>.

Services

—**Mac Hardware, software, networks & training.** Apple factory trained & A+ Certified. Marchetti Associates. LLC. 301-404-2210 or philm@erols.com

—**Macintosh House Calls—Upgrades, Repairs, Maintenance, Tutoring.** Contact John Barnes at 301-652-0667 or jdbscience@mac.com. Discount for Pi members.

—**Mac Tutoring and troubleshooting help.** Washington DC area. \$50/hour. Phil Shapiro. Contact pshapiro@his.com

Special note: Please be aware that any ad which is considered time sensitive will be removed after it has run in the journal once. This relates to offers to sell specific products, as well as job offerings. If an ad needs to run an extra time, please contact the editor at KAM129@aol.com to inform of this need.

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First consultation free and discount rates
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Help Wanted

—**Idactix, LLC Consulting** - Expert Mac solutions and troubleshooting. Services include networking, AirPort, FileMaker databases, AppleScripting, PC/Mac integration, and data backup. Prompt on-site service. 301-530-2607 or info@idactix.com.

—**Volunteers Needed:** Recording for the Blind and Dyslexic of Metro Washington is looking for volunteers who can read technical books (currently working on data structures in c++ for example). We are located in Chevy Chase at the Friendship Heights Metro, 5225 Wisconsin Ave. NW (at Jennifer Street- across from Mazza Gallery). We need computer literate folks willing to volunteer for 2 hours a week, to help read textbooks onto tape. The tapes are used by students borrowers. Interested folks can come by on Wednesday evening, January 20th, between 6-8pm for an open house orientation. Else, they can call Laurel after 3pm at 202-244-8990 and get more info. Evening sessions start at 5:30 and 7pm, Monday-Thursday. ■



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Membership Application

- New Member or Family
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Name _____ Company _____

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<p>What do you use?</p> <p><input type="checkbox"/> G5 <input type="checkbox"/> G4/G3 <input type="checkbox"/> PowerMac/Classic Mac <input type="checkbox"/> iMac.eMac <input type="checkbox"/> DSL or Cable Modem <input type="checkbox"/> OS X <input type="checkbox"/> Home Network</p>	<p>WAP has Special Interest Groups (SIGs), please check if you'd like to know more about:</p> <p><input type="checkbox"/> iLife (includes iTunes, iMovie, iDVD, iPhoto and GarageBand) <input type="checkbox"/> Power Users <input type="checkbox"/> Retired <input type="checkbox"/> Teen <input type="checkbox"/> Graphic Arts <input type="checkbox"/> Programming</p>
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Fees

Basic Membership — includes Journal, one email account and web access to TCS (please note if you live outside the US, contact us for postage charge to your location— office@wap.org)

Additional email account (per year)

Student rate (must fax or enclose copy of current Student ID)

Explorer Internet Service (per year)

Current Pi Fillings Monthly CD

\$49	\$ 49	_____
\$20	\$	_____
\$42	\$	_____
\$96	\$	_____
\$10	\$	_____

TOTAL ENCLOSED \$ _____

Payment Options

- Check/Money Order Enclosed Credit Card (Visa/Mastercard ONLY)

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Available at General Meetings for \$X, or \$XII via snail mail. Call the Pi office at 301-984-0300, or send an order by mail to: Washington Apple Pi, 12022 Parklawn Dr., Rockville, MD 20852