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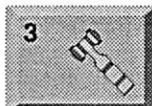
Volume 26, Issue 11



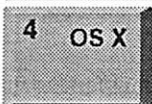
# mini'app'les newsletter

the minnesota apple computer users' group, inc.

NOVEMBER 2003						
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3 SIG 7:00	4 OS X 7:00	5 7:00	6	7	8
9	10	11 7:00	12 7:00	13	14	15
16	17	18 7:00	19 PHOTOSHOP! DIGITAL IMAGING SIG	20	21	22
23	24 Mac 6:00 7:00	25	26	27	28	29



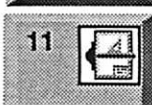
**Board of Directors**  
mini'app'les members welcome.  
Merriam Park Library  
1831 Marshall Avenue St. Paul  
Les Anderson 651-735-3953



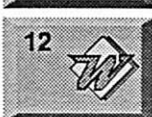
**OS X SIG**  
The Foundation  
1621 Hennepin Avenue South  
Minneapolis, MN 55403  
Craig Arko 612-379-0174



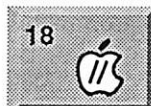
**AppleWorks SIG**  
Augsburg Library  
7100 Nicollet Ave S, Richfield  
John Hunkins, Sr. 651-457-8949  
hunkins@mac.com.



**VectorWorks SIG**  
7805 Telegraph Rd, Suite 220  
Bloomington  
Charles Radloff 952 941 1667



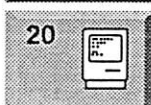
**Microsoft Word SIG**  
Eagles lodge  
9152 Old Cedar Ave Bloomington  
Tom Ostertag, D 612-951-5520 E  
651-488-9979



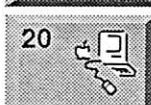
**Vintage Mac / Apple SIG**  
Augsburg Library  
7100 Nicollet Ave S, Richfield  
Tom Gates 612-789-1713



**Multi Media SIG 7 P.M**  
Photoshop-Digital Imaging  
Augsburg Library  
7100 Nicollet Ave S, Richfield  
Gary Eckhardt, 952-944-5446



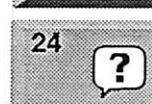
**Macintosh Consultants SIG**  
Embers 7:00 AM  
7525 Wayzata Blvd  
St. Louis Park  
Bob Demeules, 763-559-1124  
Macintosh Main



Call for info  
Les Anderson 651-735-3953



**Meet Your iMac / Mac SIG**  
Merriam Park Library  
1831 Marshall Avenue  
St. Paul  
Brian Bantz, 952-956-9814



**Macintosh Novice SIG**  
Merriam Park Library  
1831 Marshall Avenue  
St. Paul  
Richard Becker, 612-870-0659



**FileMaker Pro SIG**  
For meeting time contact  
Call for info  
Steve Wilmes 651-458-1513



**Programming SIG**  
For meeting time contact  
<http://www.visi.com/~andre/>  
Andre Benassi 763-786-3891

For the latest information please visit <http://www.miniapples.org>



# mini'app'les

The Minnesota Apple Computer Users' Group, Inc.  
P.O. Box 796, Hopkins, MN 55343

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## Board of Directors:

<b>President</b>	Les Anderson 651-735-3953 anderslc@usfamily.net
<b>Vice President</b>	Tom Gates 612-789-1713 tgates@isd.net
<b>Secretary</b>	Jim Nye 763-753-3899 nyej@lycos.com
<b>Treasurer</b>	Don Walz 651-426-5602
<b>Marketing Director</b>	Greg Buchner 952-883-0195 gbuchner@mn.rr.com
<b>Publications Director</b>	John Pruski 952-938-2818 johnpruski@aol.com
<b>SIG Director</b>	Dave Peck 651-423-4672 huntn@charter.net.
<b>Director at Large</b>	Bert Persson 612-861-9578 skallgang@yahoo.com
<b>Membership</b>	Erik Knopp
<b>Apple II</b>	Owen Aaland

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**Questions** – Please direct questions to an appropriate board member. Users with technical questions should refer to the Members Helping Members section.

**Dealers** – mini'app'les does not endorse specific dealers. The club promotes distribution of information which may help members identify best buys and service. The club itself does not participate in bulk purchases of media, software, hardware and publications. Members may organize such activities on behalf of other members.

**Advertisers** – For information, see Newsletter Ad Rates box within this issue.

**Newsletter Contributions** – Please send contributions directly to our Post Office, Box 796, Hopkins, MN 55343, or [tostertag@usfamily.net](mailto:tostertag@usfamily.net)

Deadline for material for the next newsletter is the 1st of the month. An article will be printed when space permits and, if in the opinion of the Newsletter Editor or Manager, it constitutes material suitable for publication.

**Editor/Publisher:** Tom Ostertag 651-488-9979

**Newsletter Layout:** John Pruski 952-938-2818,  
Bert Persson 612-861-9578

**mini'app'les BBS** – Internet only access

**mini'app'les WWW site:** <http://www.miniapples.org>

**mini'app'les e-mail:** [miniapples@mac.com](mailto:miniapples@mac.com)



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## CHANGE OF ADDRESS

Moving? Going to be away from home and leaving a forwarding address with the Post Office? Please send us a Change of Address when you are informing others. By using a moment of your time and a few cents to drop us a card, you save the club some money and you get your newsletter delivered promptly to your new address. If you don't inform us, the Post Office puts your newsletter in the trash (they don't forward third class mail) and charges the club for informing us of your new address. Change of Address should be sent to the club's mailing address: mini'app'les, Attn: Membership Director, Box 796, Hopkins, MN 55343.

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## December 2003 Preview

Here is the tentative calendar of our Special Interest Group (SIG) meetings for December 2003. Please pencil these events on your calendar. As always, when doubtful of a SIG date, time, or location, confirm with one of the following:

- At [www.miniapples.org](http://www.miniapples.org)
- The cognizant SIG Leader

Monday	December	1	Board of Directors meeting
Wednesday	December	3	AppleWorks nee ClarisWorks SIG
Saturday	December	6	Mini'app'les Annual Auction
Monday	December	8	iMovie SIG
Tuesday	December	9	VectorWorks SIG
Wednesday	December	10	Microsoft Word SIG
Tuesday	December	16	Vintage Mac/ Apple SIG
Wednesday	December	17	PhotoShop / Digital Imaging SIG
Thursday	December	18	Macintosh Consultants
Monday	December	22	Meet Your iMac / Mac SIG
Monday	December	22	Macintosh Novice SIG
Thursday	December	?	FileMaker Pro SIG

# Members Helping Members

Need Help? Have a question the manual doesn't answer? Members Helping Members is a group of volunteers who have generously agreed to help. They are just a phone (or an e-mail) away. Please call only during the appropriate times, if you are a member, and own the software in question.

Apple II / IIGS Software & Hardware	1, 5, 7
AppleWorks / ClarisWorks-Draw	6, 7, 8
Classic Macs	
Cross-Platform File Transfer	5
FileMaker Pro	
FirstClass	
iMacs	12, 14
iPhoto / iTunes / iMovie	
Mac OS Classic	7, 12
Mac OS X	14
MacWrite Pro	11
Microsoft Excel	2, 5, 13, 14
Microsoft Word	5, 14
MYOB	13
Networks	14
New Users	1, 9, 12
PhotoShop	3, 10
PowerBooks / iBooks	12, 14
Power Macs	14
Quicken	2, 13
QuickBooks and QuickBooks Pro	13
WordPerfect	4
VectorWorks	15

1. Les Anderson	651-735-3953	DEW
2. Mike Carlson	218-387-2257	D
3. Eric Jacobson	651-645-6264	D
4. Nick Ludwig	612-593-7410	DEW
5. Tom Ostertag	651-488-9979	EW
6. Owen Strand	763-427-2868	D
7. Bruce Thompson	763-546-1088	EW
8. Pam Lienke	651-457-6026	EW
9. Tom Lufkin	651-698-6523	EW
10. Gary Eckhardt	952-944-5446	EW
11. R. J. Erhardt	651-730-9004	DEW
12. Richard Becker	612-870-0659	EW
13. Ardie Predweshny	612 978-9774	DEW
14. Andre' Benassi	763 786-3891	EW
15. Charles Radloff	952-941-1667	D
D:	Days, generally 9 a.m. to 5 p.m.	
E:	Evenings, generally 5 p.m. to 9 p.m.	
W:	Weekends, generally 1 p.m. to 9 p.m.	

Please call at reasonable hours, and ask if it is a convenient time for them. By the way, many of these volunteers can also be contacted on our BBS. We appreciate your cooperation.

If you would like to be a Members Helping Member volunteer, please send an e-mail message to John Pruski on our BBS, or call him at 952-938-2818, with your name, telephone number, contact hours, and the software or hardware areas you are willing to help others.

## Newsletter Ad Rates

1/12 page . . . . . 2.25" Width x 2.5" Height . . . . .	\$5
1/6 page . . . . . 2.5" Width x 5" Height . . . . .	\$10
1/3 page . . . . . 2.5" Width x 10" Height Vert or 5.5 H. . . . .	\$20
1/2 page . . . . . 7.5" Width x 5" Height (save 5%) . . . . .	\$30
2/3 page . . . . . 5" Width x 10" Height (save 7%) . . . . .	\$40
Full page . . . . . 7-1/2" Width x 10" Height (save 15%) . . . . .	\$60
Outside back cover . . . . . 7-1/2" Width x 7-1/2" Height . . . . .	\$50
Inside back cover . . . . . 7-1/2" Width x 10" Height . . . . .	\$60

mini'app'les will accept all ads for publication that do not affect our nonprofit status, or the postal regulations dealing with our nonprofit mailing rates. Examples of ads that will be rejected are; but not limited to, ads that:

1. endorse a political candidate or cause
2. attack a person or cause
3. are in "bad taste" ( x rated or similar)
4. expound or demean a religion or practice.

Ads should be for a product or service. Because of our nonprofit mailing rates we must limit ads that are not related to computers.

All ads must be prepaid and submitted on electronic media. Ads of \$20 and under must run for a minimum of three months.

Mail inquiries to: PO Box 796, Hopkins, MN, 55343  
Phone inquiries to: John Pruski, 952-938-2818

# Board of Directors Meeting Monday, September 8, 2003

Edited and Approved Minutes of Bd Meeting Sept 8, 2003

Mini'app'les Board Meeting - September 8, 2003

Present- Les Anderson, John Pruski, Erik Knopp, Greg Buchner, Bert Persson, Jim Nye, Don Walz, Dave Peck

Adoption of Agenda- motion made, seconded and approved with the inclusion of Hamfest and auction in New Business.

Approval of Minutes- motion made and seconded to approve minutes with the correction of several typo and spelling errors ( anniversary, Wozniak and changed wording of now to no).Approved.

## Officer and Coordinators Reports

(1) President Les Anderson- nothing to report.

(2) Don Walz, Treasurer- submitted income statement and balance sheets. All bills have been paid, The club is in the black with a profit of \$ 541.72 for the year. In answer to questions on the expenditures for the Anniversary event, Don noted that about \$200 was spent for food, \$100 for room rent, and \$ 67 for mailings.

(3) Jim Nye, Secretary- asked if the 13 ballots received in the club election needed to be kept. The consensus was that as long as the ballots had been noted in the record they wouldn't need to be saved.

(4) Greg Buchner, Marketing- nothing to report.

(5) Erik Knopp, Membership- sent out 18 renewals for October- November.

(6) Dave Peck- SIG Director- Alliance hasn't gotten back to him after several inquiries about the type of ad they want. Les Anderson noted that it is their responsibility to contact the club about the ad.

SIG leaders should get information to John Pruski about events so that they can be placed in the newsletter, also,

the messages should be placed on BBS.

The latest membership list will be down loaded and copies run off.

(7) John Pruski , Publications Director- Dan Pilla sent him \$30 for an ad. John was concerned if the business type ad was appropriate for the newsletter. Les Anderson said he knows Pilla ( a man of opinions who publishes a calendar), said it shouldn't be a problem to run the ad. John gave the \$ 30 received from Pilla to the treasurer.

Gary Eckhart wants the SIG Photoshop name changed to Multimedia SIG.

John Arnett noted that Ben Stalling's name is still listed under helping member's name, when he is no longer a member, The non- members names should be removed from the list.

It is also noted that the Quicken SIG has been dropped. Interest in the Sig has flagged with few people attending the meetings.

## Unfinished Business

(1) Net Alliance has not responded to Dave Pecks inquiries about the ad they asked for. Les Anderson feels we needn't go looking for them. They have not pursued the mater because they have been too busy to deal with the ad..

(2) Novice Workshop- the Novice workshop was set for November 15 , but Tom Gates has a work conflict on that day. ( he may be able to switch with another person and attend the meeting). Parties interested in the meeting are advised to watch the October newsletter for the meeting date.

## New Business

(1) Budget- President Les Anderson asked that the budget be reviewed, and requested that members make suggestions for the new budget.

(2) SIG Leaders- No leader has been found yet for the Main Mac SIG meet-

ings. Director has sent out inquiries asking for a new leader. It is unknown if the meeting room has been reserved. President Anderson noted that we have to hold a meeting. He suggested in lieu of having a new leader on hand that a question and answer session be held and that some prizes be given out. Some items left over from the Anniversary meeting could be used for prizes.

(3) Hamfest - Bert Persson would like to have a table at the Hamfest and Computer Expo to get exposure for the Miniapples Club and to hand out copies of the newsletter. He noted a table would cost \$20-30. The event is usually held in the last few days of October. Motion made to fund what ever is needed for the Club appearance at the Hamfest (basically the cost of the table). Motion made, seconded and approved.

(4) Auction- Plans for the auction are starting to be made. The auction is tentatively set for December 6, 2003. The lady who acted as auctioneer last year will be asked to do the job again. Les Anderson will check to see if Washburn or Southdale library are available. He will also check with Main Mac people .

(5) By Laws - Changes required for the By Laws have to be posted in advance of the election . To meet with requirement , the By laws will be published for members to review. Members will be asked to review and suggest changes .

ADJOURNMENT- Motion to adjourn, seconded, approved. Next meeting October 6, 7:00 pm, Merriam Park library, 1831 Marshall Ave, St. Paul. ( at least for the next three months of October, November, December meetings will be held at the Merriam Park library)

# Apple Powers College Supercomputer

By Ian Hardy

BBC ClickOnline

Submitted by Denis Diekhoff

Everyone would love a supercomputer but with a price tag of around \$100m each they are not easy to come by. But in the United States staff and students at Virginia Tech have built one of the world's most powerful supercomputers for just \$5m by plugging together hundreds of the latest computers from Apple. The project involved placing 1,100 brand new Apple G5 towers side by side, making it the world's most powerful "home-built" system. It is capable of 17.6 trillion floating point operations per second, with a combined storage capacity of 176 terabytes. "Each individual G5 is a dual processor, 2GHZ machine with 4GB of memory. So it's extremely fast," said Pat Arvin, Project Coordinator at Virginia Tech. The network is linked using 2,900 cables and runs at about 100 times faster than an average corporate network. But the hard part of making a supercomputer is stability. The project's chief architect, Srinidhi Varadarajan, had to write a special program called *Deja Vu* to ensure that if an individual computer crashed in the middle of a calculation lasting weeks, if not months, another computer would take over seamlessly. "This is pretty much like open heart surgery because you're working on a computer and moving an application while it still continues to run," said Dr Varadarajan "You cannot stop the program, actual-

ly, and that's the speciality of this system."

## Heat and water

The supercomputer, unofficially nicknamed Big Mac, was built in just three months. Chilled water is piped into the facility. Right from the start there were major hurdles that could only be overcome with significant construction in and around the building. Running 1,100 computers in a 3,000-square-foot (280-sq-metres) area sends the air temperature well over 100 degrees Fahrenheit (38 Celsius). The heat is so intense that ordinary air conditioning units would have resulted in 60-mph (95 km/h) winds. Specialised heat exchange cooling units were built that pipe chilled water into the facility. "There are two chillers for this project," explained Kevin Shinpaugh, Director of Cluster Computing. "They're rated 125 tonnes each in cooling capacity, and they pump 750 gallons per minute each. The water is at about 45 degrees Fahrenheit.". The power supply was another huge challenge. The supercomputer uses the same amount of electricity as 3,000 average sized homes.

## Big science

In early September, the G5s started arriving by the lorry load and technicians rushed to install the hundreds of computers. Technicians had to quickly install the machines "We did 238 machines in little under two hours, so we were humming along as

an assembly line," said Jason Lockhart, director of high performance computing. A speedy installation was essential because Virginia Tech had to comply with an October deadline set by the National Science Foundation. Missing that deadline would have meant automatic disqualification from the NSF's global supercomputer rankings, thereby denying the college any chance of competing for top scientific research projects worth hundreds of millions of dollars per year. "A system of this size generally sees its best application in what is known as big science research; massive simulations, models, computational engineering systems," said Dr Varadarajan. "Examples of these include things like nanoscale electronics; if you're trying to invent computer chips 30 years from now you're looking at atomic levels with a single atom acting as a switch." Arguably Virginia Tech has revolutionised the world of supercomputing with a simplistic setup that can be duplicated around the globe by other institutions. It has documented how it did this from start to finish so if others want to follow suit, they can send off for a kit that tells them how to do it.

# New Electronic Paper Displays Video Too

Tuesday, September 30, 2003 Posted: 4:59 PM EDT (2059 GMT)

Research on display samples based on the electrowetting technology.

Story Tools  
Electronic Paper  
Electronics

LONDON, England (Reuters) -- Even before the electronic ink has dried on the e-page, a new generation of electronic paper may soon be able to bring a moving image to a foldable screen near you, according to scientists in the Netherlands. Hot on the heels of the invention of a wafer-thin foldable screen that can display static type and may one day replace news-

papers as it can be overwritten each day, scientists at Philips Research in Eindhoven have found a way to display high-definition moving pictures as well. Using a process called electrowetting, the scientists claim to be able to manipulate colored oils in the pixels on the page with such speed and accuracy as to be able to generate clear and accurate video displays. "The reflectivity and contrast of our system approach those of paper," they wrote in the science journal *Nature*. "In addition, we demonstrate a color concept which is intrinsically four times brighter than reflective liquid-crystal displays and twice as bright as other emerging technologies."

## Uses low voltage

Not only does e-paper work on very low voltages, but its light weight and great flexibility give it a multitude of potential applications from computer screens to wearable cinematic suits. With an e-paper screen sewn into a jacket, wearers could read e-mail or even watch the news on their sleeves while hot-footing it from one meeting to another.

# Transferring Your Data

by Don Mayer, Small Dog Electronics  
Submitted by Bruce Thompson

When you purchase a new computer, you are faced with the challenge of moving data from one computer to another. This can be time consuming, but it is very easy to do. These steps will walk you through some of the basic ways to get your "old stuff" loaded happily on your new Mac!

## Mac to Mac Only Transfer:

**FireWire Target Disk Mode** FireWire target mode is by far the fastest (and easiest) way to transfer data from one Mac to another. Both computers, the host and the target computer, need to have FireWire. Although any FireWire compatible computer can be the host, the target computer needs to be manufactured in mid-2000 or later (Visit Apple's support website for more specifics).

1. Make sure that the target computer is turned off. If you are using a PowerBook computer or iBook computer as the target computer, you should also plug in its AC power adapter.
2. Use a FireWire cable (6-pin to 6-pin) to connect the target computer to a host computer. The host computer does not need to be turned off.
3. Start up the target computer and immediately press and hold down the T key until the FireWire icon appears. The hard disk of the target computer should become available to the host computer, and it will likely appear on the desktop.
4. When you are finished copying files, drag the target computer's hard disk icon to the Trash, or select Put Away from the File menu (Mac OS 9), or Eject from the File menu (Mac OS X).
5. Press the target computer's power button to turn it off.
6. Unplug the FireWire cable.

## Mac to Mac, or PC to Mac Transfer:

**Direct Ethernet Connection** If you have both computers in the same

location, you may be able to use an Ethernet cable to connect both computers together and copy files between them. You may need an Ethernet crossover cable depending on which model Macintosh you own. This method has the advantage of being fast and being able to transfer any amount of data. Once connected by Ethernet, turn File Sharing on (Control Panel in OS 9, System Preferences in OS X). Once file sharing is active, share the contents of one of the hard drives. You'll then need to connect to the shared drive as you would connect to a server.

**Portable Hard Drive or Storage Device** If your computer has either FireWire or USB, you can use a portable drive to transfer data. Portable FireWire drives provide the fastest transfer rate, and are widely available. However, unless the computer has a FireWire port, which is not as common on PC computers, you will not be able to use a portable FireWire hard drive. A portable USB hard drive can be used, but USB transfers can be slow.

**Note:** While the faster USB 2.0 standard is available on some PC computers, some Macintosh computers only work with USB 1.1.

**CD Burner or Other Portable Media** Creating a CD of the files on your computer is one of the easiest methods you can use to transfer any amount of data. This method provides the added benefit of creating a backup of your data.

Using portable ZIP, Jaz, magnetic optical (MO), or other forms of portable media, is similar to burning a CD. Also, as long as the media device can be used on both computers, this method provides an excellent way to transfer any amount of data.

**Email** For small amounts of data, such as word processing documents, pictures, or small application data files, using email to send data to yourself as an attachment is another option. However, if the data files are over 1 MB in size, or if you do not have a high-speed Internet connection, you should try other methods before using this one.

**Note:** Some Internet service providers (ISPs) place restrictions on how large email attachments can be, so you may not be able to use this method with large data files, even if you have a fast Internet connection.

**iDisk** If you have a .Mac account, you can use iDisk to transfer data. Since the iDisk is used through an Internet connection, using this method for large data files without a high-speed Internet connection takes a long time. You can also purchase various amounts of drive space on a yearly basis, which provides additional data storage flexibility.

## OSX to OSX

**Carbon Copy** is a great utility to duplicate existing OS X volumes. Carbon Copy Cloner will retain file permissions and copy all of the hidden files. Carbon copy can be downloaded from the web at:

<http://software.bombich.com/ccc.html>  
1

## PC to Mac Transfer:

Apple has made it really easy for PC users to switch to Macintosh. Move2Mac is a kit that includes software and a USB cable to connect from the PC's USB port to the USB port on your new Mac. Detto technologies estimates that it will take approximately 15 Minutes to move 500 MB of data. The software allows you to select what folders and files to move. Move2Mac does not translate files or translate PC applications into Mac Applications. For instance, if you wanted to run Microsoft Office, you would need to get the Mac Compatible version. Most files will not require any conversion to operate in the Mac environment. The one major exception to this is Quicken. Quicken files need to be reformatted to be used on the Mac.

When transferring data, most of the information that you have created is stored in your home directory. This is in the Users directory at the root level of your hard drive. There are some files in your Library that will not transfer by hand. The files that you will want to get for sure from your

(the tilde ~ character is a UNIX symbol for the home directory) ~/Library are Addresses, Application Support, Favorites, Fonts, iTunes, Mail (if you are using OS X Mail), Preferences, and Safari. There are other files in the Library folder at the root of your hard drive that you may want to move depending on your configuration.

#### Gotchas

**File Permissions** Mac OS X is a true multi-user Operating System. Because of this, there are three main types of users: Super users (also know as Root user), Administrative users, and users. There will be many files you do not have permissions to copy.

**Root User** Root user has complete control over all of the functions of the operating system. Misuse of this user's privilege will more than likely cause your system to be unstable.

**Administrator Users** This is the type of user created when you first set up an account on OS X. This user can install applications and change system wide

configurations. This user can add and delete other users. Other admin users have the same privileges as the owner. If you grant another user on the system, they could change the owner into an under privileged user. Be careful when planning accounts.

**User** This user cannot add or delete programs, and cannot change system wide settings such as TCP or sharing privileges. It is a good idea to set up a second regular user account on the system when you first set it up.

**Unix Utilities** Unix utilities, such as cp (copy), do not retain metafiles (the default file system type for Mac OS) when copying. Metafiles enable documents to know what application was used to create the files. There are several applications that can be used to copy files and retain their metafile. Retrospect, cpmac (this is installed when you install developer tools), ditto and iSync. Syncing to your iDisk will let you have access to your files as long as you have an Internet connection — yet another reason to think about getting a .Mac account.

#### Tips and Hints

Only copy files, not applications. You'll want to install applications to ensure that they install correctly. If you are using OS X, copying each of the Users' folders over to the new computer will grab just about everything.

Setting your old computer aside for a few days until you are 100% sure that you have everything that you want, is much less stress than finding out AFTER you have reformatted your hard drive!

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## Miniapples Annual December Auction

*Submitted by Bert Persson*

The annual auction will be held on Saturday December 6 at the Washburn Library, located at 5244 Lyndale Ave So, Minneapolis. At this point we are looking for donations of equipment and software in working condition. If you have some equipment you would like to donate contact either John Pruski (952 938-

2818) or Bert Persson (612-861-9578) for handling your donations. In addition you can bring your donation to the Washburn Library prior to the auction.

Many of us have a lot of stuff that is stored and not being used so here is an opportunity to clean out the closet of usable equipment. Also the public is invited to take part in the auction and all proceeds will benefit the

## For Sale and Wants

Want to learn to use C, C++, and Java to write your own programs? Here's bundle that will let you do just that. It includes three reference books and the CodeWarrior Professional Release 5 tools. The reference books are Macintosh C Programming Primer, Volume I; Learn C on the Macintosh;

and Learn C++ on the Macintosh. CodeWarrior generates C, C++, and Java code for the Mac as well as for Windows 95, 98, and NT. CodeWarrior Release 5 supports Mac OS 7.6.1 through, I believe, 9.1 (I haven't tried it under the newer versions of the OS). For \$15 you can try

Minnesota Apple Computer Users' Group, Inc.

your hand at programming. Contact Harry Lienke on the BBS or at 651-457-6026.





# mini'app'les

The Minnesota Apple Computer Users' Group, Inc.  
P.O. Box 796, Hopkins, MN 55343-0796

## Membership Application, & Renewal Form

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Check if OK to contact you by e-mail.  
 Check if this is a change of address notice.  
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 Check if you were referred by a club member (if so give members name).

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Thank You for your support!

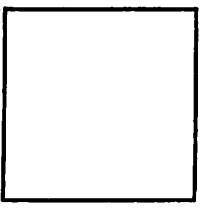
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Please direct this to the:  
 Membership Director  
 Software Director

1st fold

2nd fold



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Last Fold - Seal with Tape

Attention:  
 Membership Director  
 Software Director

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Saturday Novice Workshop

Submitted by Les Anderson

The Novice Workshop planned for November will be moved to a Saturday morning in mid January, 2004. We will hold it at St. Charles School in NE Minneapolis. Watch for further details.

Submitted by Thomas A. Gates

Another Mini'app'les computer Saturday Workshop is being planned for January 2004.

The exact Saturday is not yet official, but watch these newsletter pages and the Mini'app'les internet site for more information. Normally runs about 9am to noon-ish.

The Saturday workshops have been enjoyed and found useful by many members. This is a chance to get together with knowledgeable Mini'app'les members and get those pesky problems figured out. It may be something on how to use a particular software program, a problem with

your equipment that just won't go away, or just can't get that setup to work as you want. Whatever it is, we're here to help. There is room to bring your equipment in and set up, internet access available, some Apple and 3rd party diagnostics can be run.

So get your questions and problems ready for the Saturday Workshop and watch for the exact date and time.

## SIG Leader Needed

Submitted by Les Anderson

A leader is needed for the Main Mac SIG. It generally meets on the second Thursday of each month, except December and April. If interested please contact one of our Board Members.



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## ***Benefits of your mini'app'les membership include:***

**A one year subscription to our monthly Newsletter**

**A free account on the mini'app'les BBS (60 minutes/day)**

Communicate with other mini'app'les members plus get up to date information on mini'app'les events and meetings. Get assistance from other members.

**Eligibility for frequent drawings of free equipment, software, and books.**

Just a few of the many items given away free in the past include: Connectix QuickCam, Quickeys, Books from Peachpit Press, MacSoft Games & Software, T-shirts and software including Apple OS 10

**Periodic special User Group discount offers on equipment and software.**

In the past, Apple, Hayes, Brøderbund, and APC Power Protection (Business Security Products), among others, have offered mini'app'les members significant discounts.

**Plus, you're supporting all of mini'app'les' special interest group (SIG) meetings that you can attend each month.**

***It's easy to recoup your cost of membership  
with the above benefits.***



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