



mini'app'les



Apple Computer user group newsletter

Volume XII No 9 September 1989

Calendar of Meetings and Events

WHO	WHEN	WHERE	WHAT
North Shore Mac Users Group	Tues. Sep. 5 7:00 pm	Grand Marais Library Grand Marais, MN	Note 15
Apple II Users	Wed. Sep. 6 7:30 pm	Washburn Community Library 5244 Lyndale Ave. S., Mpls.	Educational Software Note 11
Mac Users	Thur. Sep. 7 (6:30) 7:00 pm	Hennepin County Library, Southdale Branch, 70th & Xerxes, Edina, MN	Your Favorite DA Night Notes 4 & 14
Mac Computer Art & Design Group	Mon. Sep. 11 6:45 pm	Mpls. College of Art and Design 133 East 25th St., Room 325, Mpls.	The Mac as a Pre-Press Link Note 7
MicroSoft® Works™ S.I.G.	Tues. Sep. 12 6:30-8:45 pm	Washburn Community Library 5244 Lyndale Ave. S., Mpls.	Note 13
Board Meeting	Thur. Sep. 14 7:00 pm	Lexington Branch Library University Ave. & Lexington, St. Paul	Members welcome, Note 1.
Fourth Dimension™ Group	Mon. Sep. 18 7:00 pm	Hennepin County Library, Southdale Branch, 70th & Xerxes, Edina, MN	Note 2 Small Meeting Room, 2nd Floor
Macintosh™ Programmer	Tues. Sep. 19 7:00 pm.	Hennepin County Library, Southdale Branch, 70th & Xerxes, Edina, MN	Note 2 Small Conf. Room, 2nd Floor
MacCAD/E User Group	Tues. Sep. 19 7:00 pm.	Heath/Zenith Computers Shady Oak Road, Hopkins, MN	Note 8
Apple IIGS S.I.G.	Wed. Sep. 20 7:30 pm	First Tech Computer 2640 Hennepin Ave., Minneapolis	Note 12
New Richmond Mac Users	Wed. Sep. 20 7:30 pm	Wisc. Indianhead Technical College New Richmond, WI	John Hackbarth, 715-246-6561
HyperCard™ Group	Mon. Sep. 25 7:00 pm	Hagen Office Equipment 801 W. 77-1/2 St., Richfield, MN	Note 4
Mac Novice User Group	Mon. Sep. 25 7:00 pm	Highland Branch Library 1974 Ford Parkway, St. Paul, MN	Note 9
Northwest Branch	Tues. Sep. 26 7:00 pm.	Rockford Road Library 6401 42nd Av. N., Crystal, MN	Thunderscan™ Demo, Curt Dutcher Note 6
Mac Desktop Publishing SIG.	Wed. Sep. 27 7:00 pm	First Tech Computer 2640 Hennepin Ave., Minneapolis	Note 3
AppleWorks® S.I.G.	Thur. Sep. 28 7:00 pm	Murray Junior High School 220 Buford, St. Paul, MN	Preview AppleWorks 3.0 Note 10
North Shore Mac Users	Tues. Oct. 3	Grand Marais Library, Grand Marais	Note 15
Apple II Users	Wed. Oct. 4	Washburn Community Library, Mpls.	AppleWorks 3.0 Demo, Note 11
Mac Users	Thur. Oct. 5	Hennepin County Library, Southdale	Notes 4 & 14
Mac Computer Art & Design	Mon. Oct. 9	Mpls. College of Art and Design	The Mac as a Pre-Press Link, Note 7
Microsoft® Works™ S.I.G.	Tues. Oct. 10	Washburn Community Library, Mpls.	Note 13
Board Meeting	Thur. Oct. 12	Lexington Branch Library, St. Paul	Members welcome, Note 1
Fourth Dimension™ Group	Mon. Oct. 16	Hennepin County Library, Southdale	Note 2
Macintosh Programmer	Tues. Oct. 17	Hennepin County Library, Southdale	Note 2
MacCAD/E User Group	Tues. Oct. 17	Heath/Zenith Computers, Hopkins	Note 8
Apple IIGS S.I.G.	Wed. Oct. 18	First Tech Computer, 2640 Hennepin	Note 12
Western Wisconsin Branch	Wed. Oct. 20	Wisc. Indianhead Technical College	John Hackbarth, 715-246-6561
HyperCard™ Group	Mon. Oct. 23	Hagen Office Equipment	Note 4
Mac Novice User Group	Mon. Oct. 23	Highland Branch Library, St. Paul	Note 9
Mac Desktop Publishing SIG	Wed. Oct. 25	First Tech Computer, 2640 Hennepin	Note 3
AppleWorks® S.I.G.	Thur. Oct. 26	Murray Jr High, 2200 Buford, St Paul	TO ReportWriter, Note 10
Northwest Branch	Tues. Oct. 31	Rockford Road Library, Crystal	Note 6

- | | | |
|-----------------------------------|-------------------------------------|--------------------------------------|
| 1. Dave Laden 488-6774 | 6. Jere Kauffman 535-6745 | 11. Tom Ostertag 488-9979 |
| 2. Ian Abel 824-8602 | 7. Joy Kopp 440-5436 | 12. Mark Evans 377-9000 |
| 3. Charles Bjorgen 633-8850 | 8. Bill Langer 937-9240 | 13. Ed Spitler 432-0103 |
| 4. Mike Carlson 866-3441 | 9. Tom Lufkin 698-6523 | 14. David Stovall 474-8015 |
| 5. Wesley Johnson 636-1826 | 10. Dick Marchiafava 572-9305 | 15. Jim Ringquist 218 387-2234 |

Coordinators - Please Call John Hansen (890-3769) by the 1st Friday in order to have your meeting listed correctly!

Board Members:
Officers

President	<i>David E. Laden</i>	488-6774
	675 West Wheelock Pkwy, St. Paul, MN 55117	
Past-President	<i>Dick Marchiafava</i>	572-9305
	7099 N. E. Hickory Drive Fridley, MN 55432	
Vice-President	<i>Tom Lufkin</i>	698-6523
	2078 Highland Parkway St. Paul, MN 55116	
Secretary	<i>Randy Dop</i>	452-0425
	4128 Meadowlark Lane Eagan, MN 55122	
Treasurer	<i>J. Edward Wheeler</i>	881-5928
	P.O. Box 796 Hopkins, MN 55343	

Directors

Publications	Dan Buchler	890-5051
Software	Tom Gates	789-1713
Operations & Resource	Dave Undlin	432-0913
SIG: Macs	Tom Edwards	927-6790
SIG: Apples	Tom Ostertag	488-9979
Membership	Ian Abel	824-8602

Coordinators

Beginners' Consultant	Earl Benser	884-2148
Shows & Conventions	<i>(Your Name Here?)</i>	
Northwest Branch	Jere Kauffman	535-6745

🍏 Apple II Users	Tom Ostertag	488-9979
🍏 Apple IIGS	Dick Peterson	473-5846
🍏 AppleWorks	Dick Marchiafava	572-9305
🍏 Beginner's Basic	Tom Alexander	698-8633
🍏 Languages/Tech	Wesley Johnson	636-1826
🍏 Tech. Adviser (hdwre)	Roger Flint	771-2868

📁 Mac Users	David Stovall	474-8015
	Mike Carlson	866-3441
📁 Excel	M. Nightingale	545-9380
📁 Mac Programming	Ian Abel	824-8602
📁 HyperCard	Mike Carlson	866-3441
📁 CAD & Engineering	Bill Langer	937-9240
📁 4th Dimension Prog	Ian Abel	824-8602
📁 Novice	Tom Lufkin	698-6523
📁 Smalltalk	Martin McClure	227-9348
📁 DeskTop Publishing	Charles Bjorgen	633-8850
📁 MicroSoft Works	Ed Spitler	432-0103

Software Director's Staff

Apple // DOM Editor	Tom Gates	789-1713
MacEDOM Editor/Prod	Bob Fellows	
CP/M	<i>Open</i>	

Liaison Contacts (Contact with non-Mini'app'les SIGs)

- Genealogy	Jules Goldstein	690-4447
- Medical	Stewart Haight	644-1838
- CP/M	Jim Rosenow	(414) 261-2536

Circulation this issue: 1100

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Questions – Please direct questions to an appropriate board member. Technical questions should be directed to the Technical Director.

Membership – Send applications for membership directly to the Membership Coordinator: Ian Abel 824-8602
 PO Box 796
 Hopkins MN 55343

Current membership dues are \$20 for the first year and \$15 thereafter. All members receive a subscription to the newsletter and all club benefits. New members receive a special package of member lists and software catalogs.

eDOMs	At Meetings	Mail Order
Members:	5 1/4" eDOMs \$3.00	Add
	5 1/4" System \$1.00	\$1
	3 1/2" Apple/MacEDOMs \$5.00	per
	3 1/2" System \$3.00	disk,
Non-Members:	5 1/4" eDOMs \$6.00	Max
	3 1/2" Apple/MacEDOMs \$10.00	\$4.00

Send orders to Mini'app'les at PO Box 796, Hopkins, MN 55343, attention eDOM Sales or MacEDOM Sales.

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.

Newsletter Contributions – Please send contributions on Mac 3 1/2" disks, or via telecommunications, directly to the Newsletter Editor. Contributions on 5 1/4" disks should be sent to the club PO Box, and marked: "Newsletter Submission".

Deadline for publication is the 1st day of the month preceding the month in which the item might be included. An article will be printed when space permits if, in the opinion of the Newsletter Editor, it constitutes suitable material for publication.

Meeting Dates – Please phone calendar announcements to John Hansen 890-3769.

Mini'app'les Mini'Info Exch BBS – Club members may utilize the club's BBS: Telephone No. 892-3317

Advertising – Direct all advertising inquiries to the club's Advertising Coordinator: Bob Lowe 612-933-0464
 PO Box 796, Hopkins, MN 55343

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Membership Application and Renewal Form 9/89

Name: _____

Address: _____

City: _____

State: _____

ZIP: _____

Home Phone: (_____) _____ - _____

Work Phone: (_____) _____ - _____

New Member () or Renewal ()

Spouse's name: _____

Children's names: _____
(if interested in computers) _____

Sponsored by: _____

I own or use a:

Mac+ () SE /SE30() MacII/IIx/IIcx ()
 Apple //or //+or //e () //GS() //c()
 Other ()

Special Interests - Check all that apply.

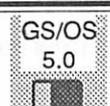
Programming () Spreadsheets ()
 Business () DT Publishing ()
 Education () Novice ()

The Fine Print

The Mini'app'les newsletter is an independent publication not affiliated or otherwise associated with or sponsored or sanctioned by Apple Computer, Inc. or any other computer manufacturer. The opinions, statements, positions, and views stated herein are those of the author(s) or publisher and are not intended to be the opinions, statements, positions or views of Apple Computer Inc., or any other computer manufacturer. Apple®, the Apple logo®, Apple IIGS®, AppleTalk®, AppleWorks®, Macintosh®, ImageWriter®, LaserWriter®, are registered trademarks of Apple Computer, Inc. LaserShare™, Finder™, MultiFinder™ and HyperCard™ are trademarks of Apple Computer, Inc. PostScript® is a registered trademark of Adobe Inc. Times® and Helvetica® are registered trademarks of Linotype Co.



System Finder HyperCard
1.2.2



GS/OS
5.0

**HyperCard
1.2.2
is now
available!**

✓ System Updates for Macintosh
 ✓ ProDOS and DOS 3.3 systems for Apple II/IIGS

Apple II SIG Sep 6 Washburn High Educational Software	MacUsers Sep 7—Southdale Lib. Members will show their Favorite DAs (See announcements for details)
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Mini'app'les BBS — 892-3317 (New Tel No!)

Deadline for October Mini'app'les Newsletter is September 2.

Make checks payable to Mini'app'les

Mail to: Membership Coord

Ian Abel
 PO Box 796
 Hopkins MN 55343

Allow 3-6 weeks for processing
 Club Dues: \$15/yr + \$5 application fee.

Special Savings On Power Protection For Mac Users

If you're using a Macintosh SE, Plus or 512, you can now have AC power protection at 25 percent off the regular retail price. NSP's Ultra Power Service is offering American Power Conversion's 110SE Uninterruptible Power System (UPS) to Mini'app'les members at the special price of \$299, a \$100 savings.

If you're an NSP customer, you can even finance your purchase through your monthly energy bills. But you don't have to be an NSP customer to order.

Enjoy these benefits with the 110SE UPS:

- Battery power automatically keeps you running for up to 20 minutes during power outage.
 - Complete surge protection
 - Unit slides under Mac, raising it only an inch and a half; no wire clutter.
 - Runs cool and quiet.
 - One-year limited warranty.
- Too much or too little power is hazardous to your computer and your important files. To order your 110SE Uninterruptible Power System or obtain more information, send in the coupon below.

Yes, I'm interested in your special UPS offer. (Check appropriate box)

Please send me _____ 110SE UPS power protection unit(s)

Payment of \$_____ is enclosed

Unit Cost (@ \$299.00)	_____
MN Sales Tax (6%) (\$17.94)	_____
Minneapolis Residents Tax (1/2%) (\$1.50)	_____
Shipping & Handling (\$2.75)	_____
TOTAL \$	_____



Bill me or Call me with details about financing through my NSP bill

Please send more information

Name _____ Title _____

Company/Organization (optional) _____

Address _____

City/State/Zip Code _____

Daytime Phone _____

Send to NSP Ultra Power, Northern States Power Company, 1518 Chestnut Avenue N, Minneapolis 55403, or call (612) 347-7383.



Northern States Power Company



How to Get Help from Club Members

Each month the Mini'app'les Newsletter will list the member volunteers who offer technical support for Apple computer related Software and Hardware questions. It will be assumed that those asking questions on how to use their programs are legitimate software owners of the program for which they are asking help and have their documentation on hand; as per the Club Policy of promoting Copyright Protection. No collect calls, please, and try to stay within the day and time access preferences of the volunteers.

Lloyd Nelson will be responsible for updating

this database and keeping it current. If other members have some expertise in an area concerning software and/or hardware for **any** Apple (or compatible) computer, please find the time to volunteer your help. Contact me (Lloyd Nelson) at 612-423-3112 after 5 pm and before 10 pm any day of the week. I will be happy to add your name to the list to make it grow! Also feel free to call the SIG coordinators as listed in the cover sheet of your newsletter. They can direct you to your special area of interest and tell you about their groups and what goes on at the meetings.

Machine	Area of Support	Volunteer	Telephone No.	Day/times
Apple II	DB Master All versions ncl. Version 5 Pro	Ann Bell	612-544-4505	Daily: 6 pm - 10 pm
Apple II	Basic	Earl Benser	612-884-2148	Evenings and Weekends
Apple II	AppleWorks, TimeOut, Beagle Buddy, Apple II hardware and software	Dick Marchiafava	612-572-9305	9am - Midnight
Apple II	AppleWorks, Dollars & Cents, ProTERM, DataLink 1200 Modem, TimeOut Sidespread, QuickSpell, Thesaurus, SpreadTools, LX-80 Epson printers, Laser 3.5 drives.	Lloyd Nelson	612-423-3112	Daily: 5 pm - 10 pm
Apple II	AppleWriter, AppleWorks	Tom Ostertag	612-488-9979	Mon - Fri: 7 pm - 10 pm
Apple IIGS	General Questions	Tom Gates	612-789-1713	Mon - Fri: 7 pm - 9 pm Weekends: Afternoon and early evening
Mac	Miscrosoft Word, Microsoft Excel (beginners and intermediate), MacPaint, MacDraw, MacDraft, Canvas, QuickBasic, Power Point	Earl Benser	612-884-2148	Evenings and Weekends
Mac	PageMaker, Word, Excel, Hyper Card, Quick Basic, Networking	Dan Buchler	612-890-5051	7 pm - 11 pm
Mac	PageMaker, Word, Mac OS. How to increase the odds in your favor with lotteries and drawings.	Tom Edwards	612-544-3200 612-927-6790	Mon - Fri 8 am - 5 pm 6 pm - 10 pm
Mac	Networking With AppleTalk	John Hackbarth	715-246-6561	8 am - 4 pm Mon - Fri
Mac	General Questions about Finder, etc --Beginners.	Timothy Shea	612-731-9523	5 pm - 10 pm
Mac	MicroSoft Works	Ed Spitler	612-432-0103	9 am -6 pm Mon - Fri

Member-Helping-Member



Apple II SIG Schedule September 1989 - March 1990

by Tom Ostertag

The schedule for the Apple II SIG for the 1989-1990 Season has been firmed up. Topics covered should be of interest to a considerable number of Apple II People. Educational software, business software, entertainment software and some hardware thrown in for good measure. So reserve the first Wednesday of each month for the SIG meeting. The permanent location (except for the 1 November meeting which will be held at Murray Jr. High School in St. Paul) has been chosen and is the Washburn Community Library, 5244 Lyndale Avenue South in Minneapolis. It's just south of Minnehaha Creek on Lyndale.

- Sep. 6:** John Hyde of First Tech will give a presentation on educational software, what's available, what's useful and what's fun. Come and ask questions and try out some of the packages.
- Oct. 4:** Paul Augustyniak, the local Claris Rep will bring in and demonstrate the new, improved AppleWorks 3.0
- Nov. 1:** Are you new to computing and not sure which end of the cable to connect to the printer? Well... come and visit with Earl Benser, Mini'app'les Beginner's Consultant, and enjoy an evening filled with great tips and techniques and find out how to plug in that new memory board for AppleWorks 3.0. This meeting will be held at Murray Jr. High School, 2200 Buford, St. Paul. (Where the AppleWorks SIG meets.) The Computer Lab coordinator has consented to the use of the Lab for the evening. So... bring your software and questions.
- Dec. 6:** What else can we talk about in December but GAMES, GAMES and MORE GAMES. Fred Evans from First Tech will bring along his favorites to demonstrate and maybe if you're nice to him even get to take one for a test drive.

Jan. 3: Better not party too much on the 1st because you won't want to be too tired to come and watch what Apple's new Video Overlay Card can do. John Hyde of First Tech will give the demonstration and it's impressive. I was there a couple of weeks ago and he showed me what it can do. It will work in an Apple //e and works great in a GS. You've got to see this to realize the power this hardware opens up.

Feb. 7: Let's see, April 15th is how many days away and where are my receipts... Ah yes, David Kronk of Kronk Financial Services and author of KFS/Tax templates for AppleWorks will be here to demonstrate his work. His templates were reviewed in the March 1989 issue of inCider and given a great rating.

Mar. 7: Desktop Publishing on the Apple II. Springboard will be here to give a demo of Publisher and new Clip Art, Utilities etc. that have been developed recently

AppleWorks SIG by Dick Marchiafava

Despite hot weather, some AppleWorks users attended the July meeting at which we had use of as many computers as we wanted. This meeting consisted of users getting help with problems, or just learning how to use AppleWorks.

Fall / Winter Schedule

Sep. 28: Preview AW 3.0

If this new release of AppleWorks has shipped by this time, or we can get the use of a pre-release disk, we will take our first look at this greatly modified and improved AppleWorks. As far as possible, future meetings will use version 3.0 of AppleWorks.

Oct. 26: TO ReportWriter

We will have a demo of this powerful TimeOut add-on program. Re-



portWriter is a powerful, flexible, relational report formatter.

Nov. 16: Word Processing, Beginning to Advanced

We will look all of the AppleWorks program modules in the coming months. This meeting is the start of this cycle. It will feature AW 3.0.

Dec. 28: TO Graph, SuperFonts & Paint

Another look at using TimeOut Paint with Graph and SuperFonts, to enhance the output of these desk accessory programs.

Jan. 25: Data Base Part 1

Feb. 22: Data Base Part 2

Any corrections to the published meeting calendar will be posted on the Mini'app'les Bulletin Board. Meetings are held monthly on the 4th Thursday **unless there is a conflict with a major holiday**. In the event of a conflicting holiday, the meeting will be the 3rd Thursday of the month. Call 572-9305 if you need information about these meetings. Dick

Mac Users "Kiss and Tell" for September

by Tom Edwards

Summer. Vacation time, huh? Well, the Mac Users co-coordinators seem to be enjoying the summer. So, Dan and I got our heads together and came up with a "Show and Tell" theme of your favorite Desk Accessory, CDEV or INIT for the September meeting. We'll each bring a favorite, and ask that you do to. No super-sophisticated demos are needed.

Just give a hoot or holler when you hear a favorite mentioned. If you will, load it up and show the rest how you use your favorite utility item from the Apple menu bar.

Your explanation may be just the answer for some other member's need. That's September 7 at the Southdale Library.

Macintosh Computer Art and Design User Group (MCAD) Meeting Topics

by Joy Kopp

The Macintosh Computer Art and Design (MCAD) User Group meets on the second Monday of the month at 6:45PM. The location of the meetings is the Minneapolis College of Art & Design, room 325 Computer Lab., unless otherwise noted.

Sep 11: The Mac as a Pre-Press Link

Bob Mueller, from Imagination Factory Graphics, will be the speaker at MCAD's September 11th meeting. He will discuss the use of the Mac as a front-end to page makeup with a pre-press link. "Pre-press" has traditionally meant the process of taking camera-ready art to film, then stripping and assembling the film in preparation for color separation and printing. The Mac now enters this process with electronic assistance.

Oct 9: Imaging! Imaging! Imaging!

Making pretty color pictures on a Mac has always been easy. Getting them off the screen and onto film or paper has not. Join us on October 9th for a research update on imaging technology from the people who invented the process. *Mike Newman*, Crossfield/DICOMED, will share results of his latest research efforts in finding new and successful ways to output a color Mac file to film and paper. These are the people who brought us images of Jupiter from the Voyager satellite in the 70's. Now, they've turned their attention to the Mac. Join us for a glimpse of the latest in technological advances.

Nov 13: That's All Folks!

MCAD meets from February through November. This year, we've decided to end the meeting year with a bash. We've opened each meeting with introductions around the room, now it's time to do the Mac Mingle! Location and party agenda to be announced.

For any questions or suggestions for future meeting topics, contact *Joy Kopp*... 440-5436



Announcements



Minutes of the Board Meeting

June 1, 1989

Hennepin County Library - Brookdale Branch

Board Members in attendance: David Laden, Tom Lufkin, Randy Dop, J.E. Wheeler, Dan Buchler, Tom Gates, Dave Undlin, Ian Abel, Dick Marchiafava. Excused: Tom Ostertag. Absent: Tom Edwards.

Members in attendance: Dick Peterson, Steve George.

The meeting was called to order by President Laden at 7:07 P.M. The meeting agenda was distributed and reviewed. Motion by Lufkin to accept agenda. Second by Marchiafava. Carried.

Minutes of May 11 Board Meeting were submitted by Dop. Motion by Undlin to accept minutes. Second by Lufkin. Carried.

Agenda Item 2.1 - Secretary's Report Randy Dop reported that Steve George is now responsible for picking up mail at the post office box.

Agenda Item 2.2 - Treasurer's Report Treasurer's Report for April 1 to 30 submitted by Wheeler.

INCOME

Membership Dues	1885.00	
Savings Account Interest	35.18	
e-DOM Sales	234.00	
Newsletter Advertising	128.00	
Miscellaneous	5.00	2287.18

EXPENSES

e-DOM Cost of Goods	366.60	
Office Supplies	8.88	
Telephone	81.24	
Postage, shipping	42.50	
Printing, publications	30.12	
Equipment purchases	428.94	958.28
Month Profit		1328.90
Savings Account Bal.	8266.69	
Checking Account Bal.	5663.43	

OUTSTANDING: AppleLink (Nov, Dec, Jan, Feb, Apr). AppleLink is making some changes in their billing procedures and will send a current bill of all charges.

Motion by Lufkin to accept treasurer's report. Second by Undlin. Carried.

Agenda Item 2.3 - Membership Director's Report Membership Report was given by Steve George. Paid members as of 5/31/89 is 805. The membership database shows a total newsletter mailing count of 899. This number consists of 560 renewal memberships, 245 new memberships, 47 newsletter exchanges, 43 complimentary, and 4 advertisers.

Motion by Wheeler to accept membership report. Second by Lufkin. Carried.

Agenda Item 2.4 - Executive Committee Report Report of the Executive Committee meeting held 5/23/89 was submitted by Dop. Motion by Lufkin to approve report. Second by Undlin. Carried.

Agenda Item 2.5 - Resource Director Report Dave Undlin received a club equipment list from John Hook. The list was reviewed and will need to be updated. There was some discussion concerning the club BBS and what could be done to enhance its usefulness. Dave will be working on some proposals for the BBS and will present them to the board at a future date.

Motion by Marchiafava to accept Resource Director's report. Second by Lufkin. Carried.

Agenda Item 2.6 - Western Wisconsin Special Interest Group Tom Lufkin reported that the New Richmond group will be holding their first meeting on June 21 at 7:00 P.M. The club will provide a list of members that are in the New Richmond area and also club membership blanks. Motion by Marchiafava to formally recognize the Western Wisconsin SIG as a interest group of Mini'app'les. Second by Lufkin. Carried

Non-Agenda Item - Grand Marais Special Interest Group Motion by Wheeler to have Tom Edwards contact the Grand Marais SIG to determine their current status. Second by Dop. Carried.



OLD BUSINESS

Agenda Item 3.1 - Status of IRS penalties
No Action - tabled.

Agenda Item 3.2 - Lawyer's Fees
No Action - tabled.

Agenda Item 3.3 - Committee assignments and appointment of staff

President: No staff requested at this time. Carried.

Vice President: No staff requested at this time. Carried

Treasurer: One person needed for spread sheet work. One person needed to work on grant proposals. Carried.

Secretary: Steve George to coordinate mail pickup. Randy Dop & Steve George have P.O. Box keys. Carried.

Publications: Staff requested was approved on an interim basis until a report is submitted by the Publications Committee. 1 opposed. Carried.

Software: Bob Fellows assigned as MAC e-DOM coordinator.

8 willing to help with Apple e-DOM's.

6 willing to help with MAC e-DOM's.

Tom Gates will provide a list of names for e-DOM editors at a future date. Carried.

Resource: Staff will be requested at the next meeting.

Membership: One person requested as an assistant. Carried.

Past President: No staff requested at this time. Carried.

NEW BUSINESS

Agenda Item 4.1 - Donation of Tectronix Printer Tabled.

Agenda Item 4.2 - Name Tags Motion by Lufkin to provide name tags for Board and Staff Members. Second by Wheeler. Carried.

Agenda Item 4.3 - Business Cards Motion by Lufkin to provide business cards for Board Members. Second by Wheeler. Carried.

Agenda Item 4.4 - Renewal of Insurance Policy
Costs: General Liability coverage of \$600,000 with a yearly premium of \$1266. Equipment coverage of \$35,000 with a yearly premium of \$250.

Motion by Dop renew the current insurance policy as stated. Second by Undlin. Carried.

Agenda Item 4.5 - Executive Committee recommendation for approval All Mini'app'les mail and correspondence be sent to P.O. Box 796, Hopkins, MN 55343. This includes membership forms, software orders, bills, etc. This does not include UPS package shipments. 1 opposed. Carried.

Agenda Item 4.6 - Participation on Microcomputers Conference Tabled.

Agenda Item 4.7 - Publication of complete membership roster Tabled.

Agenda Item 4.8 - Printing of membership blanks Tabled.

The meeting was adjourned at 9:00 P.M.

Respectfully submitted,

Randy L. Dop, Secretary

June 1, 1989



Club Business



The AppleWorks Advisor

A Column For Users Of AppleWorks

by Dick Marchiafava

July and August have been months of anticipation. Users are waiting for shipment of AppleWorks 3.0 to begin. It is like "waiting for the other shoe to drop." You know it will happen soon, but you don't know exactly when.

The word from Claris is that shipment of AW 3.0 was delayed a bit to work out bugs which continued to turn up. The small delay in shipping is probably a blessing. Better to wait a month than to fill the user channel with buggy software that would have to be returned or patched.

Claris is accepting orders for upgrade to AppleWorks version 3.0 now. Get your order in now to beat the rush. Call 1-800-544-8554 for the particulars on placing an order for an upgrade. This number is for user inquires for all software packages from Claris.

Checkmate Memory Utility?

The latest word I had from Checkmate is that the release of the memory expand utility software update to make Aw 2.1 work with their memory boards will be in August. I suppose late is better than never. The availability of AW 3.0 may make this memory expand utility obsolete.

TimeOut ReportWriter Ships

I expect to have ReportWriter by the end of the first week of August. It will ship from a distributor who has had this powerful sounding new AppleWorks enhancement program from Beagle Bros on back-order for several weeks. More about this in a later column.

Hidden DB Report Feature

Steve George called to ask me if I knew that the data base label report format would scroll to the right. I had to admit that I was not aware that it would as I did not recall ever reading about this anywhere and had not thought to try it. I checked and this feature seems to be undocumented.

I tested this and found that driving the cursor to the far right in a label report format caused the screen to become a window which can be scrolled to the right and back. It reminds me of my old word processor, Magic Window. That program

can scroll an 80 character window (screen) to the right and can accept up to 160 characters per line.

The data base report format is more flexible about where data categories are placed and can left justify categories. Used in what has been described as a "labels/tables" mode, also called a hybrid format, a user can create reports which are more useful. The label format can be up to 15 lines long. This is long indeed for a label. The usefulness of this comes into play when using this format in the hybrid mode.

In testing the ability of the label report format to scroll right, I found the line length appears to be about 280 characters wide. With a report window that is 15 lines by 280 characters with left justification, a user can make report formats which are much more useful.

These reports can be printed on a variety of paper stock, 3 or more reports per page. Using character pitch selections (compressed modes) will allow these longer lines to fit on the width of the paper used.

Of course, a label report format will not do calculations.

More On SEG.PR Editor

In the July column, I wrote about Nevin Denier's great printer segment editor utility. This program edits AppleWorks printer drivers, any of the drivers. SEG.PR Edit is now available on Mini'app'les eDOM 53.

Earlier, I reported that I had problems trying to use this utility. I got another copy of it and hope this would solve the problems I experienced. Alas, to no avail! This utility will not load the existing version of SEG.PR which contains my custom printer installation. Repeated attempts to access it would hang the program every time, regardless of where I located the printer file.

After 3 unsuccessful attempts to use a utility of this kind, I would usually write it off as not being usable by me. However, this utility appears to be very well made and would solve a problem for me, if I can get it to work. Another fact which maintains my interest in this utility is that Tom Ostertag used it to modify some printer drivers successfully and he had them doing some aston-



ishing things from within AppleWorks. One feature he implemented was double height printing, and this is with an old Epson MX-80!

I will try to get with someone and analyze the problems I have had with SEG.PR Edit. Meanwhile, I think it bears consideration.

2 Column Printing

"How do you get AppleWorks to do 2 column printing." This question arises often. There are some not very satisfactory ways to do this which involve printing text in a narrow column, changing page margins and rolling the paper back into the printer to make a second pass at the page.

Another method which I have used moves text from the word processor using TO Data Converter, to a spreadsheet. The text is placed in a single column of suitable width. Columns are setup and a gutter between them is set using another column. Blocks of text are then moved using the clipboard. After this, the file is printed to the clipboard for the word processor and then dropped into a word processor document. This works, but the results were not what one would call elegant.

Columnist Utility

Also, on eDOM 53 is Columnist, by Karl Bunker. This is a utility to convert word processor documents to a 2 column format. Unlike other methods of achieving 2 column output, Columnist allows setting column widths, space between columns, full justification and word hyphenation.

Most programs justify by pushing extra spaces between words to fill a line. This is what AppleWorks does. Some programs, including AppleWorks place the extra spaces in such a predictable way that the results can be "rivers of white" running through the printed page. They do not do a very good job of distributing the extra spaces. Other programs do a better job of this, but the result can be less than totally pleasing. This situation is amplified when one is working with a short line length, as when setting up text in columns.

In printing books, processes such as proportional print and kerning (micro-justification), are used to fill a line with text and right justify it without using hyphenation. Kerning is a process in which the spacing between letters is varied to achieve the justification. Most books are printed in this way, some are printed with hyphenation.

This level of sophistication is not available with most software and hardware. This leaves us with a choice of ragged right margins, which I think can look very bad when text is in narrow columns, or hyphenation. Columnist has the means to hyphenate words for the user. The process is under control of the user, who must tell the program where to place hyphens.

In a situation where there is only enough text to fill one column and just spill into the other, this produces a long column with a short beside it. This has been addressed by permitting such a page to be printed with the text distributed evenly between both columns.

The utility will print the resulting converted file, or the file can be loaded with a word processor to use printer features and to print it out.

I will test Columnist and write more about it another time. If printing in 2 columns is a must for you, get this utility.

AppleWorks questions and tips from anyone are welcome. Send to: 7099 Hickory Drive N.E., Fridley, MN 55432. Include your address and phone number. Or call 612-572-9305, no collect calls. Dick 

Appleworks™



BBS Notes

by Tom Gates

Lots of changes on Mini'info'net, the Mini'app'les BBS. There are now some additional areas pertaining to software, tech notes, eDOM's, and other zones of interest for members.

Tech Notes Download Area

This area does/will contain Apple Tech Notes. The format will be to load what is referred to as the "About" page separately. These files accompany each set of Tech notes and describe additions and modifications included in the set of notes. I then package the Apple II notes with ShrinkIT and load the entire group as one file (so far they have not been real huge).

Apple currently breaks out ProDOS File Type Notes (A2FTN) from regular Tech Notes (A2TN), so look for both sets about every other month.

I am working on getting the Mac Tech Notes uploaded, but am looking for someone now getting the disk version to load up the 1989 files.

eDOM Software Upload Area

This one-way board is for program files you wish to contribute to a future eDOM. Please remember only Public Domain, FreeWare or ShareWare programs. Thanks to those that have used this facility. It seems to be working very well.

eDOM Demo Download Area

This area contains sample eDOM programs, picture files or stacks that you may download without cost. Newer members may look for some 'golden oldie' selections, as well as a teaser or two from upcoming eDOM's.

Apple II folks will currently find ShrinkIT in this area. ShrinkIT is becoming the standard for compression and expansion software. It handles the BLU file types and the ACU files from AppleLink/PE in addition to its own file types.

eDOM Q & A Board

Here, ask questions you have about the software on the eDOM's, or leave suggestions of the type of things you would like to see on future eDOM's. Also, get your gripes in about current disks. Come join the fun.

Current Apple System software available through Mini'app'les:

Software	Ver	Date	Format
II, II+, //c, //e			
DOS 3.3 Master	n/a	09/10/85	5.25"
ProDOS 8	1.7	06/13/88	5.25"
Apple IIGS			
GS/OS Syst. Disk	4.0	08/18/88	3.5"
GS/OS Syst. Tools	4.0	08/18/88	3.5"
Macintosh			
System Tools	6.0.3	12/9/88	3.5"
Print Tools	6.0.3	12/9/88	3.5"
Utilities 1	6.0.3	12/9/88	3.5"
Utilities 2	6.0.3	12/9/88	3.5"
HyperCard	1.2	04/25/88	3.5"
H. C. Update	1.2.2	05/25/88	3.5"
ImageWriter LQ Disk 1		2.0	7/18/88
ImageWriter II/LQ AppleTalk		2.0	7/18/88

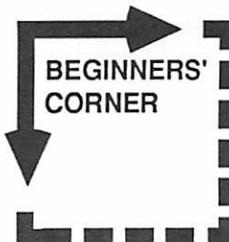
Apple System Software disk prices are as follows:

- 3.5" Systems disks \$3.00 each.
- 5.25" Systems disks \$1.00 each.

Notes:

- The Macintosh System Tools and Utilities disks are available only as a set of 4 disks.
- ProDOS requires 64K of memory on the Apple II and II+
- GS/OS System Disk and System Tools are available only as a set of 2 disks.





Dear Appey

Dear Appey - I've always been a good mechanic. Should I use 10W40 oil in my Apple IIs. Signed - Mr. Goodwrench

Dear Mr. Goodwrench - Unlike most things mechanical, you should NEVER use oil or any lubricant on your Apple. Besides, you won't have to change the oil every 300,000 bytes.

Dear Appey - Is a disk drive like a test drive when you buy a used car? Signed - A.J. Foit

Dear A.J. - No. You can't drive a disk drive around the block before you buy it.

Dear Appey - Inadvertently I put a 3M disk in a Verbatim disk sleeve. Have I ruined the disk? Signed - SFC

Dear SFC - No. But it might clash with the decor in your computer room.

Dear Appey - Should I close the doors on my disk drives like I do my garage doors before I go to bed? Signed - Nod

Dear Nod - No. The technical people warn against this. It causes stress on the mechanism and they haven't figured out how to administer Nuperin to a disk drive yet.

Dear Appey - I don't own a felt-tip pen. How can I create masterpieces on my disk labels with my ball-point. Signed - Bill Shakespeare

Dear Bill - Write on the labels **Before** you stick them on the disks.

Dear Appey - I thought computers were smart. How come they can only understand 0's and 1's? Signed - Puzzled in Plymouth

Dear Puzzled - Because computer programmers can only count up to two.

Dear Appey - Does AE mean Applied Engineering or ASCII Express? Signed - World Traveler

Dear World - Both. It also means apres ecole in the Cote d'Azur region of France. You will hear chic American kids say, "What are you doing AE?"

Dear Appey - I threw the discus in high school. Now I can only throw my hard disk 31'7". What should I do? Signed - Jocko Polo

Dear Jocko - You're in the Big Leagues now, Pal. Eat plenty of Wheaties and take the ProDOS Users Manual to bed with you at night.

Dear Appey - My book says there are two monitors. Where's the other one?. Signed - HJ Spectacle

Dear HJ - One monitor looks like a small TV. The other one is buried somewhere inside your computer. You have to be real small to watch it.

Dear Appey - I've had my Apple II for a long time but would like to move up to a II+. Where can I get a good price for my II? Signed - Henry F

Dear Henry - Beats me. Try the Smithsonian

Dear Appey - A guy I know says the 3.5 inch disk holds 5 times the information that the 5.25 inch disk holds. That right? How do they do it? Signed - Buffaloed

Dear Buffaloed - It's true. They put the 5.25 inch disk in an orange juice squeezer.

Dear Appey - I can't seem to log on to Mini'app'les Bulletin Board. I type my name as Three Fingers Harry Sloan (that's how I'm known down at the hall) then my club ID number. What's wrong? Signed - Harry

Dear Harry - The BBS is really picky. You must enter your name exactly as it appears on your newsletter mailing label. You have paid your dues, haven't you?

Dear Appey - I heard that Bert Kersey started Beagle Bros using a 16K Apple on his kitchen table. I'm an entrepreneur and I want to start a computer company too. Where can I get a 16K Apple? Where can I get a kitchen table? Signed - Ronald Trump

Dear Ronald - You sound like a smart guy. Why don't you try a garage sale.

Dear Appey - Some of my upscale friends own IBM's. What's the difference between Apple and IBM? Signed - Sir Walter Raleigh

Dear Walt - The answer is about \$2,400.



Beginners



Apple DOMs

by Tom Gates

eDOM 53 5 1/4" ProDOS format



SEG.PR.Editor was created in response to the needs of several people in the Rockingham Apple Movement (RAM) user group. As you probably know, AppleWorks supports a limited number of printers, in a limited way. This program attempts to add more flexibility to AppleWorks by allowing you to customize the printer definitions stored in the SEG.PR file. In doing so, you can use features of your printer that AppleWorks does not directly support. In essence, up to three "custom printers" can be active at one time.

This program will run on any Apple][capable of running AppleWorks; that is, you need at least 64K of memory and an 80-column card. In addition, the program runs in the ProDOS BASIC environment; you will need access to BASIC.SYSTEM.

The program has been tested with AppleWorks 1.2, 1.3, 2.0, and 2.1. There are no known conflicts with Pinpoint, Applied Engineering's Desktop Expanders, MacroWorks, or other AppleWorks add-ons. Sorry, SEG.PR.Editor does NOT work with /// Easy Pieces, the Apple ///'s counterpart to AppleWorks.

eDOM 55 5 1/4" ProDOS format



The Struggle for Guadalcanal is a highly detailed game which simulates the turning point for the United States in the Pacific against Japan in World War II. In the first purely offensive action of the Pacific war, the United States seized the strategic island of Guadalcanal and created a foothold in the south Pacific. Both sides paid a high price fighting for this island.

It is August, 1942. The American player has control of the actual ships, troops, and aircraft of the period. The US transports are poised to land with troops and supplies.

The United States had to not only seize Guadalcanal, but to hold it in the face of considerable Japanese effort to retake it. This effort included naval, land, and air attacks from the Japanese. To complicate matters, the US supply was limited, and the Japanese submarines were always looking for the US ships.

The Japanese, infuriated by the capture of Guadalcanal, were determined to re-acquire the island. The airfield that the Japanese had built was now renamed Henderson Field by the Americans. While the US had air superiority most of the time, the Japanese had greater naval strength. Their mission was to cut off the American supply lines, suppress the island, and mount an offensive with their troops to retake the island.

The game spans the period from August 7, 1942 to December 31, 1942, nearly six months. During this time, the US captured the island and built enough of a stronghold so that the Japanese were unable to recapture it.

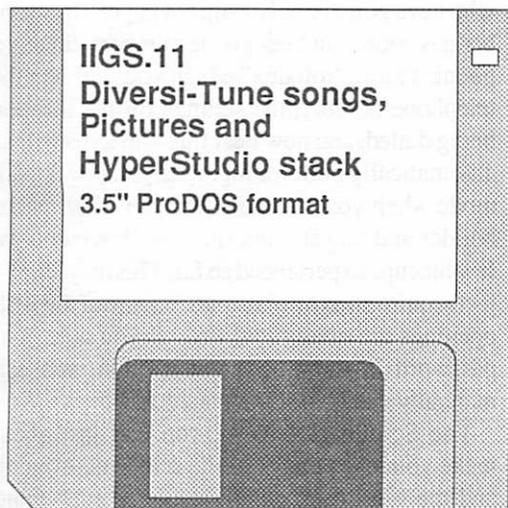
The Struggle for Guadalcanal was written by Jeff Roy with programming help from Tim Long between November, 1985 and the present. This is a ongoing project that is constantly being improved. It is written entirely in 65C02 assembly language and makes calls to the Apple's monitor ROM's and Applesoft Basic. The system requirements are an Apple IIc, enhanced Apple IIe, or an Apple IIGS, with 80 columns and a minimum of 128K RAM.

A second disk contains 9 Super Hi-Res map graphics of the Guadalcanal area in the Pacific. Please read the notes in the program's user guide for information on printing these maps.



Software News

by Tom Gates



This disk contains a collection of 2 dozen Diversi-Tune(tm) song files. There a little of everything here from Bach to Super Tramp.

There is also a folder of SHR pictures. Yes, they are already doing pictures from the Batman movie and there are a couple here along with several other interesting pictures from a graphics interest group.

Well, it's here! HyperStudio(tm) from Roger Wagner. This disk contains a sample stack that provides information about the human brain. This is a very well done sample stack that is not only interesting, but gives you some very good ideas on what can be done while constructing your own stacks.



System Software

We now have the 32-bit QuikDraw disk and LaserWriter 6.0 system software disks from Apple Computer for the Macintosh.

For the Apple IIGS, GS/OS version 5.0 was supposed to have been released July 19, 1989. As of this writing I have not received any information or software via our license.

I have received a letter from Apple Computer offering an addition to our current software license. This is the MacApp Sample Program DoubleVision. It provides a unique example of MacApp programming for scientific developers written in Object Pascal using MacApp 2.0, the new Palette Manager and offscreen graphics world. This is distributed in source code form. If there is enough interest we can add this to our current software license. Please call me at the number listed here in the newsletter.

Demo Software & Specials

You seem to have enjoyed the opportunity to preview software programs thru the use of DEMO disks. I'm happy to announce DEMO software from the following companies:

Paragon Concepts, Inc.

NISUS - The Amazing Word Processor
A 1-disk demo - Macintosh

Informix Software, Inc.

WINGZ(tm) - Test Flight
A 2-disk demo - Macintosh

Fifth Generation Systems, Inc.

FASTBACK II

A 1-disk demo - Macintosh

Also available is a Special Offer order form for Mini'app'les members allowing you to order FASTBACK II for \$75.60. A 60% (or \$113.40) savings from the full price of \$189.



Apple Software



ProTERM

(ProDos) Version 2.1 by Checkmate Technology
An Apple II Product Review

by Lloyd Nelson

I thought it only fitting to write this review of ProTERM using the Editor (wordprocessor is a better word for this full fledged editor).

Now I could follow the index of the Manual, which, upon later reading, is a fine source of finding out about all the bells and whistles—but you all know that in the real world, most of us just “boot” the disk and see how far we can get on our own before resorting to the manual. A review of the software according to the manual would sound like a manual. On to the fun!

I had heard a lot about ProTERM on the BBS's and it was highly recognized as being a real good modem program. So when Tom Gates asked me to review it and make a newsletter article, I said “yes”, quickly. I currently have a workable program which was packed with my modem; but this ProTERM package makes it look very basic.

On “booting” the disk, one is presented with an opening graphic with a choice to run set up or continue booting. At set up, there are numerous choices of internal cards (about 20) and external modems (about 22); complete with default set strings. Baud rates up to 9600 are supported. Also this is the place to do set up for your printer interface and type of printer. My Grappler+ and Epson LX-80 (FX series printer codes) are supported along with a whole host of others.

It, next, quite happily said hello to my Super Expander E (1 Meg memory card) and found that there was a lot of free space and allocated it all for itself giving it 690K of scrollbar buffer and 46K of copy buffer. First I had seen scrollbar buffer or any buffer so large!

What the first thing you do with a modem and new program? Well, you dial out to your favorite BBS. The menu that greets you right up front gives all the choices of your next action. D(ial) brings up another menu which allows one to quick dial on a one shot basis by typing in the telephone number and pressing return (preceded with a “p” if you have pulse dial). For those of us

who have gotten tired of slips of paper to remember passwords and telephone numbers, there's a phone dialing “rolodex” which you can enter the telephone number, the settings for the location being dialed, and now hear this—macros will be automatically built for logons if you select learn mode when you make the first call. The macro builder and player work quite well; with only a few hiccups experienced so far. This may simply just require an extra pause since some of the BBS openings are quite rapid fire. If you note your password in the BBS name section, you can manually carry on if the macro fails.

The Scrollback!! Well, you can just about make your eyes buggy at the screen all evening and the scrollbar quietly captures everything like an endless loop. Less memory, less loop! Scrollback buffer can be entered anytime, on-line or off-line and sections can be clipped to the copy buffer, disk file or printer; with just a few keystrokes. Scrollback has several AppleWorks wordprocessor like cursor movements such as OA-1 through 9 and OA -> (arrow key) to get around to see what you want to save.

The copy buffer is used by the editor for text memory, so this is the place to load files (text or Appleworks word processor files) from disk to edit, or clip from the scrollbar. The copy buffer can be printed, appended, written to disk as a text file or as an AppleWorks file, autosaved to disk if there is a long text file to download, and can be viewed at any time. The copy buffer can be dumped as an ASCII line input to make a “post” (of a letter written off-line) same as typing in text.

Any menu command can be exercised, on-line or off-line; since ProTERM sends a to format another data disk right on the spot. Full DOS commands are supported on another sub menu.

File transfer protocols, send and receive, are ASCII, CHristensen, Xmodem (Standard, DOS, ProDOS, CRC), Ymodem, Zmodem, Kermit and Transit. An unattended mode of operation is another feature. I have not tried this out yet...but



Abel, Ian	55417	612-824-9128	Braley, Gary F.	55421	612-633-4451	Cox, William	54024	715-483-9929
Abrams, Donald	55372	612-447-2373	Brandenburg, Gary	55104	612-649-0761	Coyne, Terence	55102	612-291-1137
Adam, Pete	55107	612-481-9382	Break, Roger D.	55372	612-447-2949	Crawford, Don	55435	612-831-4995
Agogino, Dr. Mercedes M.	88130		Breit, Kelly D.	55447	612-475-3568	Cummings, Kimball C.	55424	612-926-3234
Ahrens, Mary	55318	612-448-5836	Brestrup, Ruck	55417	612-721-7336	Curiskis, Juris	55346	612-377-6153
Albright, Joe	55345	612-935-4565	Bric, Mark	55416	612-593-3854	Dahl, Mark	55343	612-933-5126
Aldrich, Gary	55413		Brogren, Roy H.	55042	612-777-3564	Dalen, Roscoe E.	55125	612-739-8160
Alexander, Thomas P.	55105	612-698-8633	Brom, Henry C.	55303	612-421-8740	Danek, Lawrence G.	55429	612-535-6191
Allard, Roy	55409		Brookdale Lib., Friends Of The	55430		Danielson, A. J.	55343	612-544-1841
Anderson, Earl H.	55419	612-729-0357	Brooks, William W.	55101	612-774-7903	Dantuono, Mark L.	55122	612-854-7138
Anderson, J. Leavitt	55391	612-473-7079	Brovold, Ray L.	55105		De Coursey, Bill L.	55421	612-574-9062
Anderson, Bonnie	55104	612-644-4580	Brown, David A.	55337	612-432-1912	De Meyere, Ross	55432	612-571-3029
Anderson, Les	55119	612-735-3953	Brown, Jeff	55114		Desio, Vince	55337	612-890-6643
Anderson, Sonia G.	55431	612-888-8719	Browne, Colleen	55331	612-474-0063	Detlefsen, Guy	55391	612-475-1525
Anderson, S. Ferdinand	55343		Bruland, Phillip J.	55422	612-533-5175	Detzel, Norma Jean	55603	218-353-7414
Anderson, Lee Or Jane	55414	612-379-1435	Bryan, Linda	55109	612-777-7037	Dewar, Darrell D.	55016	612-459-3843
Anderson, Scott M.	55422	612-377-6262	Buchler, Dan B.	55337	612-890-5051	Dewey, Douglas	55343	612-933-5768
Anderson, Glen F.	55108	612-646-7377	Bucks, George	55337	612-435-5988	Deyo, Steven M.	55111	612-698-0051
Anoka Ti Media Center	55303	612-377-5115	Bue, Wesley	55416	612-922-5404	Dietz, John R.	55437	612-831-1257
Anway, Allen	54880	715-394-4061	Buehrer, Doris	55108	612-645-6457	Dikis, Les	55372	612-447-2870
Appelquist, Daron	55378	612-895-5214	Buell, W. R.	48124	612-621-8034	Doll, Jim	55436	612-926-9070
Aries, Richard S.	55068	612-432-3230	Buending, William A.	55343	612-935-7255	Dop, Randy L.	55122	612-452-0425
Aritt, Daniel	55101	612-224-9599	Bukowski, James	55107	612-227-6496	Doyle, Nancy	55409	612-822-7665
Amesen, Mark & Patricia	55438		Burgess, Carol	55331	612-471-9357	Draeger, Gary R.	55417	612-869-4006
Augdahl, Duane E.	55116	612-698-0273	Burman, Tim	55418	612-788-6766	Drazen, Kathy H.	55122	612-452-4155
Aura, Dick	55435	612-941-1198	Bursch, Patricia	55413	612-627-2144	Driscoll, James	55107	612-454-8503
Austin, Chris A.	55404	612-870-7760	Butler, Scott	55337	612-894-6562	Duggan, Michael	55437	612-835-7013
Axdal, Steven	55016	612-459-9962	Byland, Eugene	55124	612-423-3268	Dust, James	55343	612-933-8117
Babcock, Connie	17602	717-397-5693	Byrne, Richard D.	55410	612-926-9512	Dutcher, Curtis	55428	612-537-5291
Baker, Steven E.	38183	901-757-5328	Byrne, Randy	55435	612-944-8254	Eaton, John O.	55108	612-646-3335
Baker, Mark	55428	612-537-3130	Cabinety, Stephen M.	01420	617-343-8551	Ebeling, Brian T.	55438	612-941-4550
Barker, Barney	55432	612-784-2081	Callery, Marjana & Dave	55105	612-699-0363	Edd, Kenneth	55113	612-631-3679
Barsamian, Richard	55436	612-929-9663	Campbell, Doug & Patty	55417	612-866-2184	Eddy, Michael	54726	715-386-6162
Basten, Marybeth L.	55447	612-475-1852	Cannon, Patrick	55417	612-722-7056	Edman, Mel	55345	612-934-2596
Beales, Robert A.	55120	612-454-6338	Carlson, Mike H.	55416	612-377-6553	Educational Service Center	55413	
Becker, Richard H.	55404	612-870-0659	Carlson, Donald N.	55417	612-866-4379	Edwards, Thomas W.	55410	612-927-6790
Beddow, Craig	55409	612-825-3337	Carlson, Gregory L.	55427	612-544-8252	Edwards, Lois	55435	612-942-7232
Behr, Marek	55414	612-626-0763	Carlson, Peggy Sue	55413	612-781-3238	Edwards-Plant, Cindi	55330	612-441-6339
Beihoffer, Dale E.	55447	612-473-4777	Carlson, Clarence G.	55109	612-7772668	Eginton, Lael	55422	612-544-0235
Bell, Ann T.	55427	612-544-4505	Carney, Carlton P.	55346	612-934-1259	Eiland, David	55401	612-688-8749
Beller, Terry	55105	612-699-7807	Carroll, Joseph E.	55345	612-938-4028	Elberling, Jim	55122	612-688-8815
Bellinghausen, William J.	55437	612-835-2554	Carson, Howard A. W.	55303	612-427-6073	Ennis, Maridee	55344	612-944-7610
Belongia, Ed	55419	612-929-1981	Carter, Kevin	55330	612-441-4111	Epeset, Linda	55104	612-645-0873
Benbenek, Waldyn J.	55405	612-377-7909	Carver, Irving L.	55110	612-429-3475	Ernst, Randi	55357	612-479-1654
Benser, Earl H.	55437	612-884-2148	Case, Judith L.	55435	612-447-3424	Esmay, Joel L.	55303	218-543-4511
Benson, Burt D.	55407	612-724-2069	Casey, Mike	55104	612-647-1169	Ethen, Steven D.	55337	612-894-1326
Benson, Wade S.	55112	612-633-1706	Cavanaugh, Mike	55405	612-870-0181	Eubank Iii, Eugene O.	55419	612-926-7726
Berkholtz, Nicholas E.	55345	612-722-5565	Chapman, Mark	55102	612-224-6706	Everett, Nathan	55424	612-927-8014
Berks, Daniel	55417		Charity, Anne S.	55436	612-936-0100	Evingson, Charles	55419	612-822-8100
Betsinger, Signe T.	55108	612-625-4211	Chartrand, Gerald R.	55418	612-788-3024	Ewing, Beverly & Stephen	55345	612-827-5140
Beuning, H. Maureen	56302	612-251-1243	Chase, Larry	55378	612-922-5347	Falk, Tom	55113	612-633-9375
Bialick, Ed	55422	612-588-5236	Chase Jr, Eugene C.	55052	507-685-4390	Falk, Clarence	55410	612-920-9043
Bibas, Stephen M.	55405	612-374-1612	Christopherson, George	55337	612-432-3121	Farmer, David	55119	612-739-4477
Bieger, Walter	55112	612-636-4385	Christensen, Terry	55420	612-881-3479	Farrell, John	55113	612-484-6500
Bihle, Don	55441	612-544-5580	Christensen, Dan	55416	612-377-8493	Farrow, Doug	55447	612-475-3338
Bills, Fred	55373	612-479-1791	Cimbura, Tim	55421	612-571-8650	Fazio, Dennis	55418	612-789-0164
Bisping, Bruce H.	55410	612-927-5753	Cleveland, Tom	55405	612-872-1592	Fearing, Joan	55116	612-699-4606
Bjorgen, Charles E. & Sonia C.	55112	612-633-8850	Cobb, Nate	55082	612-439-9387	Fears, Carl R.	55112	612-633-3482
Bjornberg, Peter R	08053	609-596-1159	Colby, Jim D.	55420	612-881-3912	Fehn, Simon	55444	612-560-3971
Bjstrom, James	55117	612-778-1241	Cook, Jim	55343	612-544-0079	Fellman, Lynn	55422	612-588-8572
Blanco, Monica	55435	612-944-1045	Cooke, Geoffrey	55431	612-884-4871	Fellows, John	55417	612-894-8439
Bloomington Schl Dist #271	55420		Coomes, Michael	54016	715-549-6290	Fellows, Robert C.	55416	612-925-4090
Boehland, Lyle	55124	612-432-9553	Copeland, John R.	55447	612-475-3017	Ferens, Joseph A.	55431	612-884-6028
Bogott, Robert P.	55420	612-884-1998	Copes, Lawrence E.	55075	612-451-3720	Ferrier, David	55432	612-574-9138
Bohanon, Peg	55438	612-888-4746	Corey-Edstrom, Kenneth	55433	612-757-5780	Ferrier, Michael	55406	612-724-8630
Bolton, Larry D.	55337	612-432-6507	Cornhill, Dennis	55104	612-292-9085	Fiedler, Mike	55410	612-927-6298
Borg, Robert L.	55417	612-822-4903	Costanzo, Louis	55427	612-544-8184	Finis, Carla	55407	612-724-1682
Brabec, Tim F.	54021	715-262-5197	Cotter, Joan A	55350	612-587-9146	Fischer, Mark S.	55416	612-925-0649
			Couture, Jay	55110	612-779-8603	Fitch, Richard A.	55117	612-489-6350



Fitzgerald, Kathleen	55426					Jennings, Wayne	55117	612-489-8937
Fitzpatrick, Patti	55356	612-473-7050				Jensen, William C.	55401	612-338-0002
Flannigan, Ronald E.	55445	612-493-2721				Jensen, Jean M.	55337	612-890-6520
Flannigan, Betty	55331	612-474-3513				Jenson, Ralph	55118	
Flewelling, Larry J.	55397	612-467-3694				Jesmer, Jr, John	55422	612-522-5351
Flister, Stephan P.	55127	612-429-6735				Job, Bill	55421	612-572-0828
Folwick, Steve	55423	612-866-9794				Johnson, Mike A.	55104	612-645-1377
Foote, Michael H.	55057	507-645-6710				Johnson, Reese C.	55401	612-339-5119
Foote-Lennox, Thom	55369	612-881-1428				Johnson, Stephen K.	55419	612-869-3447
Foreman, William T.	55420	612-888-2710				Johnson, Steven F.	55014	612-786-3028
Foss, Ken M.	55117	612-774-7772				Johnson, Roberta & Gary	55110	612-770-5931
Frantz, Jr, Ivan D.	55108	612-646-5523				Johnson, Roger A.	55434	612-786-7867
French, Robert L.	55112	612-633-7945				Johnson, David S.	55051	612-341-2040
Frymire, Jane	55417	612-824-0456				Johnson, Kim V.	55122	612-452-6906
Frys, Russell N.	55435	612-896-1177				Johnson, Marvin	98052	
Fuller II, Raymond A.	55075	612-451-8109				Johnson, David M.	55108	612-623-4632
Fundingsland, Roger E.	55369	612-420-4158				Johnson, Wesley D.	55112	612-636-1826
Gardner, Todd	55435	612-920-8618				Johnson, Mark	55417	612-822-9638
Gasterland, Hans	55420	612-827-4854				Johnson, Karen	55125	612-735-5873
Gates, Thomas A.	55418	612-789-1713				Johnson, Robert	55106	612-776-8284
Gawarecki, Chris	55345	612-937-8646				Johnston, John A.	55391	612-473-4467
Gebhard, Timothy J.	55075	612-452-3186				Jones, C. R. (Bob)	55425	612-888-5623
Gedell, Karla R.	55411	612-784-1842				Jones, Rick	56379	612-253-8933
George, Stephen T.	55343	612-935-5775				Juncker, David	55419	612-824-2317
Gerdeen, Joel	55432	612-572-0148				Kagan, Alan	55118	612-457-6586
Gersich, James J.	55428	612-535-7613				Kaiser, Ellen	55416	612-927-4320
Getsug, Ray	55116	612-690-2974				Kalway, Keith	55103	612-489-4091
Gfrerer, Michael	55113	612-484-4357				Karl, Thomas A. (Tom)	55103	612-644-0554
Gibson, Chris W.	55345	612-591-0032				Kasper, Lee	55301	612-497-2413
Gieske, Dan	55104	612-645-5052				Kauffman, Jere F.	55428	612-535-6745
Gilbertson, Roger W.	55113	612-644-9182				Keiser, Ken	55110	612-426-4668
Gillies, C. Greg	55337	612-890-4127				Kelberer, J. Michael	55113	612-636-4531
Goepfrich, R. F.	55410	612-927-8363				Kelly, Kent	55317	612-934-5534
Golfus, Billy	55414	612-331-1130				Kelsey, Robert C.	55435	612-829-8265
Golfus, Jay J.	55422	612-521-9645				Kenfield, Dick	55343	612-938-4382
Gondek, Sister Sharon	55104					Kesner, Craig	74020	612-557-0653
Gooch, Van D.	56267	612-589-3075				Kimm, Gervaise	55414	612-379-1836
Goodrich, Philip R.	55112	612-633-5517				Kirkpatrick, Barb	55113	612-642-9761
Goshorn, Susan	55417	612-869-5811				Kistner, Joan C.	55437	612-835-0641
Gotcher, Robert	55417	612-721-6744				Kittell, Bonnie	55423	612-869-3826
Gotschalk, Larry	55419	612-861-4087				Klemann, David	55106	612-771-3676
Gough, Michael J.	55112	612-633-3097				Kloempken, David	55410	612-922-0459
Grant, Jr, Dr. D. C.	56171	612-764-5691				Knaeble, Peter	55343	612-542-1974
Gray, Todd Alan	55126	612-490-1864				Knoff, William S.	55432	612-571-1938
Green, Mark S.	55110	612-429-5851				Knoll, Robert	55304	612-753-1484
Greenbaum, Ted	55114	612-699-1923				Koenig, Hans J.	55436	612-926-9226
Greger, Jr, John A.	55119	612-771-3344				Koivisto, Mark	55343	612-544-5434
Grider, David B.	55418	612-781-3586				Kolacke, John M.	55435	612-944-6600
Gruen, B.	55435	612-920-2319				Kolbinger, Nannette M.	55113	
Gudahl, Gladys E.	55436	612-922-8304				Kopischke, Greg	55124	612-431-6019
Gudden, Ben	55075	612-455-3474				Kopren, Terry	55345	612-536-8304
Guha, Aloke	55417	612-822-9127				Korlath, Bill	55429	612-561-0859
Gunkle, Gloria	55033	612-437-9778				Korpela, Bill	55313	612-682-3759
Gunn-Smith, Ann	55316	612-421-1828				Kosky, Bob	55424	612-929-6868
Gustafson, Gerald J.	87111					Kosse, Charles	55102	612-778-0253
Gutenkauf, Joseph J.	55124	612-454-7654				Kosters, Wayne	55344	612-941-2202
Hackbarth, John	54017	715-246-5617				Kraft, Edward J.	55114	612-227-9023
Haggerty, James J.	55425	612-854-8994				Kraft, Mary E.	55105	612-690-7001
Hale Iv, Henry E.	55345	612-934-3255				Krasky, Bob	55422	612-593-1783
Hamburger, Manny C.	55426	612-545-5795				Krause, James W.	55416	612-377-0747
Hamerston, Marlow	55126	612-484-4615				Kroll, Arnold	55025	612-433-3517
Hamilton, Jeff	55422	612-420-7275				Kronk, David	55346	612-937-0389
Hammond, Daryl	55125	612-487-1002				Krummel, Karen	55413	612-331-8732
Handberg, Lowell M.	55072	612-245-2369				Kuhl, Davin K	55407	612-724-4399
Handt, Robin	55113	612-483-1578				Kuhn, Steven A.	55343	612-933-5443
Hansen, John L.	55337	612-890-3769				Kunau, Timothy M.	55407	612-729-8175
Hansen, Greg	55444	612-566-2050				Kurtz, Mary C	55435	612-944-2682
Hanson, Gary	55416	612-925-4864				Kvam, Karen M.	55117	612-771-2343
Harasyn, Elise	55428	612-533-1190				Laabs, Duane O.	55104	612-646-8978
Harmon, Hubert N.	55112	612-636-5716						
Harmon, Richard E.	55391	612-473-8598						
Hatula, Leo	55441	612-545-8225						
Hauer, Corey	56007	507-826-3255						
Hauge, Duane S.	55068	612-432-7855						
Havir, Terry & Kristine	55369	612-420-4163						
Hawkins, Jim D.	55417	612-825-6114						
Heasley, Timothy N.	55013	612-257-5389						
Hegg, Donald H.	55420	612-881-3742						
Heid, Roger S.	55337	612-432-6206						
Heinen, Douglas M.	55322	612-442-2743						
Helgeson, Ron	55343	612-935-5224						
Helmers, John I.	55976	507-533-8265						
Hendrickson, Tom	55424	612-926-7951						
Henke, James A.	55423	612-452-5911						
Hensel, Robert	55016	612-459-6902						
Herrmann, Barbara Ann	55115	612-770-6719						
Hess, Don	55391	612-473-5710						
Heurung, Jeff	55127	612-490-1296						
Hillier, Fran	55102	612-227-5128						
Hilpisch, William P	55110	612-429-4937						
Hinck, Paul E.	55443	612-560-8627						
Hinderlie, Diane S	55416	612-929-6156						
Hlavsa, Larry	55116	612-699-7198						
Hockin, Robert	55108	612-642-1930						
Hodgdon, Douglas P.	55416	612-926-7164						
Hoffman, Chuck	55408	612-825-7417						
Hogin, Susan	55124	612-432-1857						
Holdridge, Earl	55424	612-922-7311						
Holland, Eric B.	55420	612-888-9830						
Holman, Kenneth	55422	612-924-3773						
Holmberg, Raymond A.	55407	612-724-3807						
Holmen, Ted	55901	507-282-9103						
Holmquist, Michael W.	55337	612-890-5617						
Holstrom, Melvin L.	55425	612-854-6291						
Holterman, Eric F.	55409	612-822-8528						
Holzemer, David	55406	612-722-2035						
Hom, Edwin S.	55122	612-454-9679						
Honce, Barbara	55406	612-724-1772						
Honeywell, Northland IRC	55428	NA						
Honeywell, Edina IRC	55436	NA						
Honeywell, Shady Oak IRC	55343	NA						
Honeywell, Hopkins IRC	55343	NA						
Hook, John A.	55343	612-435-6281						
Hooper, Stanley B.	55055	612-459-7915						
Horswell, James	55414	612-379-7624						
Hrcir, Leann	55430	612-561-1354						
Hsiao, R. Eckstram	55344							
Hsiao, Hoyt M.	55121	612-835-7356						
Huck, William	55110	612-426-2545						
Hultine, Ronald	55124	612-432-1877						
Hultstrand, Glenn	55423	612-869-9377						
Hum, Vilma A.	55122	612-890-7451						
Hurley, Patrick	55364	612-472-5416						
Huston, Jim	55438	612-944-7271						
Imbertson, Jack	55108							
Indian Head Lib. Syst.	54701							
Ingulsrud, Joel	55108	612-641-0991						
Ingvaldsen, Russell E.	55418	612-781-3847						
Ingvalson, Nathan	55337	612-432-6851						
Iverson, Craig Arko/Julie	55414	612-646-7815						
Iverson, Bruce J.	55068	612-432-8248						
Jacksha, Robert	55426	612-546-3808						
Jacobson, James L.	55425	612-888-5253						
Jacoby, James W.	55420	612-888-5888						
James, Phillip	55109	612-777-2303						
Jarmuz, Michael	54016	715-386-5030						
Jarvis, Michael	55438	612-941-4069						
Jedlicka, Arvid	55372	612-447-8475						





Laberee, Jon E.	55420	612-888-5213	Mc Cann, James J.	55112	612-636-0565	Olson, Gregory	55352	612-492-2419
Lacabanne, Leon	55343	612-544-1981	Mc Clure, Martin R.	55105	612-227-9348	Olson, David	55417	612-722-7363
Laden, David E.	55117	612-488-6774	Mc Curdy, Rudi E.	55347	612-559-1080	Olson, Merle	55042	612-777-5822
Laine, Lawrence	55104	612-647-0445	Mc Farlane, William	55438	612-829-7210	Olsson, Barry B.	55408	
Lampe, Fred R.	27514	919-942-2735	Mc Gowan, Vince	55104	612-646-3240	Ortiz, Gene	55441	612-544-5065
Landry, Chuck	63303	314-928-6240	Mc Guinn, Frank	55435	612-935-7653	Ostertag, Thomas	55108	612-488-9979
Lange, Robert G.	55432	612-571-1551	Mc Guinn, Frank	55435	612-935-7653	Ostrov, Dr. C. S.	55421	612-544-6459
Langer, William J.	55344	612-937-9240	Mc Manus, Becky	55413	612-224-9384	Overby, Kathy	55117	612-776-3022
Langer, Larry	55127	612-484-5168	McInerney, Claire	55116	612-699-2553	Owen, Linda	55113	612-483-5094
Lapinski, Joe	55432	612-571-1952	McIntosh, Ross	80303	303-494-6541	Palmer, John Ivan	55416	612-922-8557
Larsen, Ken C.	55427	612-537-5612	McLafferty, Gregory T.	55014		Papke, Lavonne	55987	507-454-2992
Larsen, Robert E.	55112	612-636-2094	McNichol, Karen M.	55014	612-784-4818	Parker, Jason	55408	612-825-5244
Larson, Virgil	55108	612-644-4562	Medley, Michael	56303	612-274-8083	Pashibin, Paul	55437	612-780-9896
Larson, Phyllis H.	55427	612-546-6316	Meduna, Frank	55122	612-452-2521	Patrin, Gene	55013	612-257-4826
Latham, Ken S.	55119	612-735-4536	Meehan, James	55150	612-778-0594	Pauley, Chuck	56201	612-235-9585
Lau, David	55416	612-920-1696	Meehl, Chris	55369	612-425-1032	Paulson, Jerry	55337	612-435-7676
Laudon, Robert T.	55414	612-331-2710	Mehle, Thomas	55412	612-529-6774	Paulson, Dennis	55408	612-825-6358
Lawson, Chris D.	55343	612-931-0965	Melony, Charles	55331	612-474-9461	Paus, Glenn H.	55406	612-722-6477
Lechtman, Suzanne R.	55116	612-699-2251	Meyer, Dennis	55364	612-472-5023	Pearson, Dale G.	55106	612-772-2285
Leduc, Bill	55347	612-941-4219	Mille Lacs Co Dac,	56353	612-983-2162	Peck, Ben	55409	612-823-0776
Lee, Gordon	55437	612-831-6979	Miller, Jackie	55337	612-890-2071	Pecoraro, Julie & Tony	55044	612-435-8280
Lee, P.a., Curtis	55391	612-473-5099	Miller, Valerie	55112	612-636-0526	Peirson, Sarah	55104	612-647-0960
Leerhoff, Vic	55429	612-537-4791	Miller, J. Dennis	55424	612-944-9647	Peitz, Paul J.	55429	612-560-9370
Leir, Jo Ann	54025	715-247-5108	Miner, James F.	55406	612-721-7791	Peplow, Ella Jean	55427	612-546-4605
Leisman, Wayne M.	55063	612-629-2873	Miranda, Rocky V.	55455	612-489-2078	Perry, Jr, Gordon	55347	612-944-5343
Lelchuk, Steve	55409		Mitchell, Joseph H.	55423	612-861-2346	Peters, Dick	55417	612-727-3209
Lenling, Camille	55372	612-447-8213	Mizuno, Nancy K.	55912	507-437-7505	Peterson, Richard H.	55356	612-473-5846
Lerschen, Barbara	55372	612-447-6498	Mlekoday, Hank J.	55343	612-933-4461	Peterson, Charles H.	55364	
Level, Eric	54022	715-425-6567	Moen, Marilyn/Ron	55364	612-921-2355	Peterson, Steven	55436	612-922-9212
Lewey, Lance	55426	612-936-9562	Moffitt, Jim	55423	612-861-3439	Peterson, Norman C.	55113	612-484-3410
Lex, Mark G.	55337	612-894-1522	Moline, Steve	55428	612-535-6111	Peterson, M.	55082	612-439-2547
Lieske, Jody R.	56001	507-345-4784	Moline, Lynn	55403	612-347-7383	Peterson, Wade	55126	612-483-2235
Lindeen, Charles	55104	612-489-5596	Molitor, Bradley	55369	612-425-1778	Pfaff, Robert J.	55123	612-452-2541
Lindo, Roger B	55437		Momoi, Katsuhiko	55413	612-379-2490	Pfister, Joel	55422	612-522-8518
Lingle, John	55431	612-888-9766	Montgomery, Herb	55436	612-922-0724	Phenow, Larry H.	55369	612-420-8875
Litton, Stephen F.	55427	612-544-1554	Moore, Terry	55011	612-753-1823	Phillips, Brad	55437	612-884-0745
Loberg, Doug	55092	612-434-3161	Moran, Jack	55424	612-920-0558	Phillips, Richard	55108	612-646-0253
Lock, Peter	55408	612-871-8159	Morehead, Marc	55444	612-535-8654	Piepho, Dale A.	55109	612-770-6079
Lomker, Michael H.	55422	612-535-0415	Morrison, James W.	55414	612-623-3141	Pihl, Leif O.	55406	612-729-8277
Londeen, Dave	55437	612-881-0597	Moulin, Donald D.	55102		Pihlgren, Barbara	55113	612-483-2850
Lott, Fritz	55422	612-377-3032	Mueller, M. E.	55364	612-472-1104	Pipp, Andrew J.	55443	612-561-1722
Lovrien, Joan	55125	612-739-6958	Mundt, Tom	55113	612-631-2323	Pluntz, Richard V.	55420	612-884-6122
Lowe, Bob	55345	612-933-0464	Murray, Gladys	55113	612-490-6402	Popkes, Daryl	55438	612-944-0212
Lozito, Bill	55431	612-888-0313	Nahring, Marianne	55303	612-427-3248	Post, Richard E.	55428	612-533-1896
Lucas, Steve	55124	612-431-1740	Nelson, Lloyd A.	55068	612-423-3112	Potter, Dean S.	55123	612-454-8827
Lufkin, Thomas M.	55116	612-698-6523	Nelson, Bryan G.	55406	612-724-3430	Preves, Duke A.	55345	612-941-5989
Luger, John	55092	612-464-5233	Nelson, Roger	55113	612-636-1025	Friendshuh, David	55421	612-781-2315
Lunderborg, Kayleen	55431	612-888-9586	Nelson, Rolf T.	55429	612-420-3076	Pyzdrowski, Mike	55343	612-935-5454
Lunt, Robert D.	55107	612-944-1430	Nelson, Ronald		217-25-12-15	Quaidoo, Charlotte	55066	612-388-7954
Mackin, Terrence	55437	612-941-8702	Neuman, Pat	55105	612-690-4999	Qualey, Terry K.	55110	612-777-6915
Mader, Leroy J.	55379	612-445-1838	Newhams, Kenneth R.	55405	612-823-5850	Radinecki, Regene	55409	612-824-2959
Madsen, Timothy	56037	507-278-3657	Newmark, Richard A.	55119	612-735-4541	Radloff, Charles	55423	612-926-2056
Magree, Melvyn D.	55442	612-559-1108	Ng, Kwok	55443	612-566-8289	Raich, Thomas R.	55057	612-332-6623
Maliszewski, Greg	55068	612-432-7267	Nielsen, Donald G.	55441	612-559-5942	Ramler, Don	55016	612-459-3481
Maloneyhuss, Keith	55108	612-649-0208	Nielsen, David J.	55369	612-424-4191	Rao, Prakash	55435	612-560-1116
Mansfield, Colin	55407	612-823-8762	Nimchuk, Steve	55431	612-885-2147	Rasmussen, Gerry	55115	612-426-2371
Marchiafava, Richard	55432	612-572-9305	Nordback, Judy	55435	612-927-5537	Ratliff, Jerry L.	55104	612-647-0783
Marchushek, Dale R.	55109	612-777-5309	Nordvall, Ardis	55417	612-724-9174	Reed, Thomas	56302	612-255-9137
Marsolek, Jerry	55075	612-455-3750	Norman, Ben	55089	612-258-4507	Reever, Cindy	55344	612-934-7500
Martin, Rev. George H.	55123	612-822-1084	Norskog, Curtis	56201	612-235-0644	Reich, Ronald R.	55420	612-888-7813
Martin, Paul John	55343	612-935-7756	Northenscald, Tom	55418	612-781-5947	Reid, Tom R.	55105	612-698-9584
Martin, Gerald R.	55423	612-861-7993	O'Neil, Bob	55391	6120475-9094	Reinken, Jim	55372	612-440-5436
Mason, Thomas R.	55409	612-824-0825	Oakley, Joe F.	55406	612-729-6107	Remer, Teena	55343	612-933-1876
Mass, Gregory	56401	218-829-8436	Ohno, Tom T.	55431	612-831-5869	Renner, Tom	55347	612-937-2391
Maxwell, Stephen L.	55104	612-222-7600	Ohnstein, Tom R.	55113	612-636-4595	Rentsch, Dick	55423	612-866-3538
May, Ted	55403		Olander, Mark	55318	612-448-3348	Resoft, Leroy A.	55934	507-545-2753
Mazyck, Michael	55417	612-861-7501	Olesen, Randal V.	55447	612-473-1540	Reul, Robert	55426	612-544-2943
Mc Andrews, Jr, William J.	55104	612-645-6713	Olesen, C. J.	55343		Rewmouw, Tim	55407	612-729-4604
Mc Bride, Geraldine A.	55068	612-432-1793	Olson, Scott T.	55110	612-777-6425	Reynolds, Lee	55404	612-874-7820



Rhoades, Bill	55057	612-652-2221	Shuckhart, Harold	55303	612-422-1645	Tjosvold, Bruce	55411	
Rice, Thomas J.	55126	612-484-5519	Sienko, Richard A.	55422	612-542-8741	Tool, Sandra	55328	612-972-3570
Rich, Kenneth L. (Ken)	55403	612-377-4682	Silberberg, Sarah	55408	612-825-8126	Torline, George	55426	612-939-0941
Riebe, Bruce A.	55102	612-451-9639	Silberman, Sheldon	55422	612-377-0272	Totten, William M.	55105	612-699-1220
Riesselman, Robert A.	55331	612-470-0196	Slingsby, Ken	55089	507-263-3715	Townsend, John C.	49007	612-699-0798
Ringquist, Jim	55604	218-387-2234	Smith, M. Wiley	55420	612-881-0940	Townsend, De Wayne	55406	612-724-7010
Ringsmuth, Paul L.	56387	612-251-7326	Smith, P. A.	55337		Treen, Harold M. (Chip)	55406	612-729-3550
Ringsmuth, David	55420	612-884-1771	Smith, Richard A.	55126	612-484-6377	Trinh, Long P.	55433	612-427-2966
Riplinger, Rodney F.	55047	612-433-2672	Smith, Danny	80301	??-449-5549	Tuchner, John R.	55016	612-459-0316
Rivard, Duane J.	55113	612-484-8896			X6612	Tucker, Steve	55042	612-436-8230
Roberts, Gloria P.	55119	612-739-7519	Smith, Randall	55343	612-591-9611	Tuft, Dennis W.	55124	612-432-6020
Robins, Stanford	55118	612-455-9444	Smith, John T.	55416	612-936-7855	Twito, Paul	55404	612-872-9763
Robinson, E.J.	55424	612-925-3419	Somerville, John	55346	612-934-4588	Undlin, David	55124	612-432-0913
Roca, Joan	56001	507-625-8752	Sommerfeld, Susan	55374		Vader, Peter B.	55418	612-721-3491
Roerden, Doug S.	55416	612-929-1888	Sorell, Jan	56377	612-252-2930	Van Alstine, Frank	55337	612-894-5076
Rolf, Timothy J	55414	612-331-2847	Sorenson, Gary	58106	701-235-0073	Van Guilder, Gerald	55119	612-776-6829
Rooney, John R.	55127	612-429-2901	Sower, Gehry D.	55433	612-421-1524	Van Heel, Richard	55428	612-533-3723
Roper, Dean R.	55379	612-445-4799	Speckman, Phil	55431	612-884-6206	Verstegen, Peter	55082	612-430-3585
Rose, William C.	55429	612-537-2455	Spilseth, Paul	55082	612-439-5568	Vetter, Steven C.	55112	612-631-3682
Rosen, Curt	55117	612-490-0629	Spitler, Ed	55124	612-432-0103	Vidmar, David L.	55710	218-749-2960
Rosenberg, Robert M.	55402	612-377-4300	Spotted-Eagle, Chris	55405	612-377-4212	Vimr, D.J.	55121	612-454-1461
Rosine, Janel L.	55416	612-441-8815	Stanislaw, James O.	55403	612-646-2954	Vind, Thomas H.	55447	612-473-0455
Rossin, Thomas	55412	612-521-5155	Stapp, Hugh	55436	612-935-7304	Vogel, David G.	55409	612-823-8936
Rossland, Eric D.	55404	612-454-5332	Stark, Loren	55343	612-933-7246	Wajda, Nancy L	55105	612-788-5094
Rost, David	55427	612-542-8588	Starr, Richard T.	55122	612-452-6745	Wakefield, Brad	55359	612-473-5239
Rourke, Mary Joan	55113	612-483-1228	Stasson, Jim	55317	612-470-9085	Walker, Stephen J.	55102	612-291-0831
Ruggles, Carolyn M.	55126	612-484-6135	Steele, Diana	55344	612-553-0183	Walker, Brian K.	55406	612-722-6975
Runyon, Robynne	55422	612-529-0339	Steinberg, David	55337	612-894-8342	Walton, Susan	55431	612-831-5932
Rydberg, Roger	55441	612-546-5368	Steinbicker, Bill	55345	612-931-9047	Ward, Vic	55101	612-699-0649
Rydell Md, Robert E.	55345	612-933-1019	Stenberg, Carol	55404	612-487-156	Warner, Bill	55117	612-484-8275
Sach, Bruce	55432	612-574-1906	Stemberger, M. M.	55419	612-866-8827	Watters, Steven H.	55126	612-483-3569
Sachs II, Samuel	48203		Stevens, David	55347	612-934-4304	Weatherby, Paul	55344	612-937-0373
Saeks, Allen I.	55422	612-374-5134	Stevens, Paul	55410	612-926-0888	Weber, Lillian M.	55424	612-926-4533
Samuelson, Joanne	55112	612-636-7686	Stille, George D.	55427	612-544-4767	Weber, Launcelot G.	55424	612-926-4152
Sandburg, Dana	55417	612-823-0063	Stoll, R. W.	55116	612-698-5092	Weinstein, Lora	55409	612-824-7159
Sandstrom, Cindy	55433	612-755-3273	Stout, Gary	55435	612-941-0195	Welch, Gene	55442	612-559-1166
Sandven, Dorothy & Roger	55420	612-884-5841	Stovall, David	55331	612-474-8015	Welsh, Susan	54016	715-549-6382
Sanford, John	55110	612-429-7297	Strand, Ron	56001	507-278-3790	Werth, Gerry	55418	612-788-5531
Sapp, Jr, Wallace J.	55318	612-457-2573	Strathman, Larry	55417	612-724-2833	Wessel, Richard	55447	612-473-7039
Sauer, Thad	55122	612-452-0179	Strating, Jeff	55419	612-623-7828	Westby, Solveig	55343	612-938-9463
Savitt, Gregg	55426	612-546-6129	Stuck, Liz	55414	612-378-3082	Wheeler, J. Edward	55423	612-881-5928
Saxton, Anthony	55107	612-293-1294	Stueven, David	55109	612-777-8683	Wheeler, Rob	54806	715-682-6877
Schai, Thomas W.	55113	612-482-9033	Sullivan, Steve B.	55410	612-920-8463	White, Garry C.	55944	507-634-4161
Schellenberg, Steve	55106	612-731-4972	Sundell, Donald G.	55345	612-935-7303	White, Chris	55124	612-897-3754
Schiller, Russell	55419	612-926-5412	Surine, Susan G.	55117	612-774-2224	Whitmore, Mark	55426	612-445-5568
Schlicher, David W.	55423	612-869-8262	Sutherland, Karen A.	55105	612-698-2284	Widmer, Ronald H. & Adelle K.	55113	
Schlichting, David	55435	612-935-0412	Sutton, Jonathan	55410	612-925-0531	Wiese, Dick W.	55436	612-929-6261
Schloff, Leonard	55116	612-690-2113	Swan, Larry	55347	612-542-8477	Wigand, Richard	51104	612-922-5998
Schoeppner, John C.	55075	612-455-8613	Swatez, Jack	55416	612-922-8492	Wilhelm, Joel	55337	612-890-9067
Schwartz, Terry	55118	612-455-5222	Swentko, Wally	55406	612-722-0684	Wilkening, Keith E.	55437	612-831-8356
Schwendeman, Peg & Mike	55031	507-263-3801	Sydow, Benno	55113	612-633-8150	Willenbring, Pat	55105	612-698-7047
Seals, John B.	55118		Taylor, Edward N.	56303		Williams, Lindy	55438	612-944-0333
Sears, Steven	55105	612-291-9105	Taylor-Sharp, Keith	55104	612-646-4576	Williams, Jim	55436	612-929-4617
Segar, Thomas W.	55431	612-888-7159	Telke, Terry	55123	612-454-0501	Williamson, Ron	55105	612-293-0622
Selvik, Rick	55413	612-378-3816	Temple, Ruth	55403	612-874-7267	Wilson, William R. (Bill)	55426	612-545-8368
Seng, Richard C.	55401	612-333-5840	Tenney, Quentin E.	55337	612-890-7886	Wilson, George F.	55447	612-475-1056
Seufert, Jerome	55126	612-483-0491	Terry, Ken	55428	612-535-8540	Wilson, R. J.	55438	612-941-1720
Shankar, Subash	55432	612-572-8736	Tharaldson, Craig	55423	612-869-1072	Winston, Neil	55104	612-645-8443
Sharpsteen, Jerry L.	55337	612-890-5068	Thieson, Craig	55401	612-332-3028	Wolkoff, Donald	55114	612-888-2023
Shea, Timothy	55125	612-731-9523	Thiesfeld, Chuck W.	55431	612-831-0009	Wolters, Marian	55117	612-488-6416
Shepherd, Beverly	54022		Thofem, David	54023	715-749-3407	Wood, C. Levering	55410	612-927-4754
Shervy, Paul	55409		Thomas, Jay	55441	612-559-8806	Wood, Randy	55068	612-423-3752
Shetterly, Will	55407	612-721-6076	Thompson, Roy L.	55113	612-636-3419	Woodgate, Kent	55420	612-888-3846
Shey, James	55433	612-421-2868	Thompson, Sally	55025		Woodward, Frederick B.	55115	612-426-4060
Shields, Jim & Wendy	55304	612-434-9836	Thompson, Edward B.	55042	612-777-7660	Young, Alwin C. H.	55438	612-944-8909
Shnider, Bruce J.	55402	612-377-6322	Thorp, Will	55112	612-639-0468	Young, Dave	55014	612-426-9358
Shrewsbury, Carolyn M.	56001	507-625-3264	Thuston, Francine Creme	55116		Ziemer, Edward L.	55936	
			Tillman, David F.	55112	612-636-8923			
			Timmermans, Kevin P.	55408	612-872-0641			





the manual says (Yes, I did get around to reading it) that a call can be received, with password screening (optional), and selected directories opened for remote operation including file viewing and transfer, which in fact gives the outside caller (perhaps yourself) quite full control of your computer and access to designated files.

Eleven different terminal emulations (other than none) are supported so you can access a mainframe with VT-52 or VT-100, get special ProTERM graphic effects from hosts that support ProTERM graphics; and the list goes on.

Parameters can be reset on-line; for example, you can switch from full duplex to half duplex or chat at any time, switch baud rate, and switch emulation.

Macros other than log-on macros can be written within the Macro Editor, or in the text editor; to speed up functions within ProTERM or when logged on an information service. This allows one to call GENIE, perhaps; download new files in a certain library to disk with the proper protocol, exit quickly and sign off; all with a couple of key strokes and certainly the minimum amount of connect time. These macros can be executed at any time through the main menu.

Print screen can be activated at any time, except in the editor. This is helpful if you want to read something but don't want to go through the work of making it permanent on disk.

I did have one minor problem! I do not know the answer, but when I was almost finished with writing this review, I wanted to check it on QuicksPELL — so I had the editor buffer save an Appleworks file. I had Appleworks enhanced with Checkmate memory recognition, TimeOut, and SuperPatch 3.0 when I started ProTERM from the program selector. I loaded this AW file and Appleworks bombed to the monitor. By elimination, it turns out that the file created by ProTERM was the culprit, not the enhanced

image of Appleworks. I had previously created text files from AW files within ProTERM without problems, but not the reverse. I tried a second time with same text file, creating a new AW file — with the same results. A third time, with a different text file, yielded yet the same result. It appears, at least on the surface, that the AW file that ProTERM wrote was corrupt. Perhaps I used the wrong parameters to save — paragraph, suppress control codes — I finally created an AW file using Appleworks to give it the spelling check which was sorely needed.

In conclusion, I have found ProTERM very easy to learn, and operate, with proficiency. The opening logo states "Communications Software for the Novice to the Pro" and seems to me to be an accurate description of this terminal program. I would highly recommend this software for any Apple II computer.

This was printed in the last newsletter, but thought I would post for the benefit of the people who make use of programs to convert to the spoken word.



Apple II Reviews



Directory Labeler

An Apple II Review

Version 1.1b from SOURCEWARE

by Lloyd Nelson

Disk Labeler is **Not Public Domain Shareware**, but is a **Commercaill, Copyrighted** program for sale.

As its name suggests Disk Labeler is a disk directory label printer which will print the directory contents of ProDOS program or data disks onto peel off labels which can be attached directly to the disks. Custom labels (full user input) of up to 5 lines can be also printed. Custom label entries can be selectively positioned centered, flush left, or flush right. Another option yet is letter size hard copy directory listings which can be printed for reference file use.

Disk Labeler can be configured for Epson or Imagewriter printers by menu selection and other printers by user definition of printer control codes. Disk Labeler is Apple //e, //c, and //GS compatible (probably Laser as well since it is ProDOS — this is only this writers opinion). Printer and drive slots are configurable.

The menu is simple and straightforward with no surprises. The directory being read can be sorted by Date Created, Date Modified, File Name or by File Type and so printed to the label or the letter size hard copy directory listing.

The directory name may be up to 27 characters long, and up to 24 files can be printed in 17 CPI on a single label. If there are more files, then a second label is automatically printed without headings. The user inputed Title and the Date is printed in Bold 10 CPI. The layout is pleasing.

I do not have a clock but the disk documentation says that if a clock is present the date will automatically be entered. For us no-clock people, manual entry of the date is supported.

Up to 999 labels can be printed from one disk directory reading. A label set-up string is optional to assist in label alignment. Disk Labeler is designed to use 1 across, 1-7/16" x 4" labels which are the standard size for 5 1/4 floppy disks. These are commercially available label sizes manufactured by Avery and Dennison in fan-fold or roll style. SOURCEWARE will also sell you labels directly at the cost of \$5 for 100. SOURCEWARE's address is 6899 South Yukon Court, Littleton, Colorado 80123.

If you want neat labels with the minimum amount of fuss, this just may be the utility for you. Full documentation is supplied on the disk.



Fate And The Hard Drive Owner

by Dick Marchiava

This spring I got a 40 Meg Chinook Technology hard drive. I have been very pleased with it and have integrated it into my operations.

One is always told that hard drives are fast. The typical disk rotation speed is 3000 rpm which is 10 times faster than a 5.25" drive and about 5 times faster than a 3.5" drive. Access times are often on the order of 32 milliseconds, much faster than hard drives a few years ago.

Despite what one is told and what one understands intellectually from reading hard drive specifications, it is difficult to actually realize how fast these devices are. In use, I find this hard drive to be much faster than my expectations.

During the past few months, I installed my programs on the hard drive. Directories were organized and filled with existing data. Macros have been written which take into consideration the presence of the hard drive. This configuration was tested, adjusted and finally everything settled into a comfortable configuration. As I said, the hard drive was truly "integrated" with the system and operations. It's amazing how quickly one comes to depend on new hardware.

Virtually everything installed on this hard drive and most of the data stored on it came from 3.5" disks. Most important new data or templates were individually backed up to 3.5" disks. After getting the configuration the way I wanted, it was time to back it up.



Fickle Finger Of Fate

I scheduled a Saturday morning to do the hard disk backup. **How did it know?** With the innate perversity of inanimate objects, the hard drive did not start when the computer was booted, on that fateful morning. Checks showed that the outlet it was connected to was live. The switch was on, but no indicators would light.

Suspecting a blown fuse, I opened the case and discovered that the 1 Amp cartridge fuse was blown. I replaced the fuse with another of the same rating. When I plugged the drive in and switched it on, I was treated to a flash of light as the fuse blew. I tried again with the same result. Finally, I tried a 2 Amp fuse only to be rewarded with a **really bright flash** as that fuse died. What ever was wrong with the power supply was a solid failure.

Disaster!

Horrors!! My hard drive was dead!! How was I going to manage without it? As it turned out, not to badly. The only significant files were not available elsewhere were my daily diary file and a few templates which had been used recently. I had to scramble around to get versions of my software which would operate from 3.5" disk and shuffle through data disks when I wanted files, but I could continue to operate. In this case, the operating configuration of the drive is as important as the data.

The drive was packed up and returned to Chinook Technology. They promptly effected repair of the power supply and returned the drive. Chinook should be congratulated on the alacrity displayed correcting the fault. If I had remembered to instruct them to return the drive by UPS Second Day Air, the repair would have turned around in about a week.

When the repaired drive was connected to the system, everything worked the same as before the failure. Since the failure probably occurred as the drive was shutting down, or at the attempt to start up, I was sure the drive heads had not crashed and the data stored would be intact. This proved to be the case. My only loss was the

inconvenience of having to do without the hard drive for a few days.

Since getting the drive back on-line, it has been backed up, in 2 different ways. The first backup is by file or sub-directory using Copy II Plus. Files from this backup can be accessed individually. The other backup was done using Glen Bredon's ProSel utility. This represents a "snapshot" of the drive at the time and is intended to be restored as a unit.

The backup process with Copy II Plus was slow. ProSel was faster, backing up 2 volumes onto 10 - 3.5" disks in about 45 minutes. Faster, but not wonderful, considering that only about 25% of the drive capacity is in use.

Now that more Apple // and Apple IIs users are getting hard drives, we need a good backup utility. Also, a disk optimizing utility is desirable, to organized fragmented data files and keep the drive access time as fast as it can be. Central Point Software's "PC Tools Deluxe," which I have on my AT type computer comes to mind.

That utility backed up the AT 40 meg hard drive, which is also about 25% used, onto 4 - 5.25" 1.2 Mb disks in less than 10 minutes. That included formatting the disks. A data compression scheme is used in this backup. Also available in PC Tools, is what is called a "DOS Backup" which produces a backup in which the individual files can be accessed.

One conclusion drawn from this little tale are that backups are important. I know that, so do you. Right? Although I had not done a full disk backup before the drive failure, the only thing I wish that I had done differently would be to have backed up certain data files. For me, that would have been enough to minimize the inconvenience experienced.

Another conclusion arrived at is that Apple // users need a good, easy to use hard drive management utility. I think I will contact Central Point Software and encourage them to release a version of their PC Tools. Or, maybe Beagle Bros might find such a project interesting.





MacHappenings

Some Recent Mac SIG Meeting Events

by Tom Edwards

W

ith ten Mac SIGs meeting each month, there are many choices for the Mac aficionado. Because of recent business changes, I've missed a few of my regular

haunts during the summer and look forward to settling back into the routine this fall. (Egad! Fall. Just around the corner. How time flies when you are beating the keys!) With all of the activity in the newsletter process, and the quest for more authors contributing from the various SIGs (from the Apple II side, as well), I'm looking forward to reading stuff from others about some of the meetings that I may attend. It'll be fun to compare my observations with others, to see what they caught and I missed.

One meeting that I did get to this last July was the Mac DeskTop Publishing SIG, chaired by *Chuck Bjorgan*. Though I always look forward to this meeting, as a supplement to some of the things that I'm 'sposed to be doing at work, the July meeting held special interest for me because of the program feature. It was a presentation of **LetraSet** products, including the **ReadySetGo!** page makeup program. RSG! was one of the first programs aimed at the publishing field. I purchased a copy and had hopes that this (at the time) reasonably priced program would out pagemake PageMaker.

Well, that wasn't the case. I sold the program to a club member who had other needs. He's been through several upgrades and now must be working with a program that can do the things that I lusted for a few years ago. And to top that off, he's making money with the thing! I haven't been able to make a dime off my computer... much less break even with all that I still manage to bolt on to it or slam into the disk drive!

Time to get on track...

and tell you about the DTP meeting. *Dan Kaeuken* reps the western half of the USA (or is it the western hemisphere?) for **LetraSet USA**. He prepped the folks gathered at **First Tech Computers** with some history on the company. If you have any artsy background in you at all, you will remember "rub down" letters, which was the

beginning product for LetraSet. Today, they have changed development emphasis to the electronic, with "studio" products for the Mac, but still retaining the visual relationship. Dan demoed several, and mentioned them all.

LetraStudio received "Oooo's" and Ahhhh's" from entrenched DTP'ers who I thought had seen it all. The ways that the lines of text (headline material) can be shaped, pulled, spun, rotated, shaded, kerned and all, really is slick. And the type stays "clean" through it all... none of those infamous "jaggies" to contend with here!

The other demo was of RSG!, now in version 4.5a, and able to work in color with the proper Mac hardware. This program is feature-packed, including some things that PageMaker users have clamored for. One of the main things comes from the "word processing" functions that are included. Whereas PageMaker offers only a rudimentary editing function, RSG! suggests that you can use the program to actually do all of your word processing. This brings search and replace (including Styles) and dictionary functions right into the program.

Venerable PageMaker commands the biggest chunk of the DTP market. But I was surprised to read a few days after this presentation that RSG! was #2, a position I had assumed went to QuarkXPress, from all of the hype and vocalizations from XPress users. One of the reasons I looked into RSG! in the first place, was the amount of bang for the buck. Looks like a fair number of other folks still find that RSG! is a fair buy.

LetraSet is following a strategy designed to provide a whole stable of products for the DTP'er and artist. The intent is to get the programs to offer the same "look and feel" and file compatibility so that your transition from one to the next is seamless. With available, and coming, programs like ImageStudio (graphic manipulation of photos and scans), StandOut (presentation graphics), ColorStudio (ImageStudio with crayons) and FontStudio (type creation), they are pretty well on the way. Coupled with the Pantone color matching system and ITC type faces, the artsy community has a lot to use and look forward to from LetraSet.



Happenings

The August Mac User meeting...

pulled in *Bob Heine*, presentation coordinator from Hewlett-Packard's St. Louis office. Accompanied by *Russ Markert* and *Mike Turek* from Office Products of Minnesota, they presented background, samples and data on the DeskWriter, a new Mac-specific ink jet printer from HP. Cranking out 300 DPI and equipped with clones of the original LaserWriter fonts (Times, Helvetica, Courier and Symbol) that you install in your System file, the printer is designed to address a niche market. It is a "personal" printer, offering no LocalTalk connection for shareability.

The printer uses a Chooser-level access to the print driver, just like other Mac output devices. Processing of the page is a function of the Mac's processor, using QuickDraw routines and outline font technology. This is not a PostScript printer... it is more comparable to the LaserWriter SC than the NT, and that is also reflected in the suggested list price of \$1195, including cable. Seven additional fonts can be added (by stripping out another \$375 from your billfold or purse) to boost the available fonts to a level similar to the LaserWriter Plus. Fonts are scaleable from 4 to 250 points.

The business end of the printer terminates in an ink jet package that contains a water-soluble ink cartridge able to turn out about 500 average letter units (whoops! I forgot to note how much for a refill cartridge). The "printhead" is also part of the package, so that is renewed with each refill. The ink lays well on a wide variety of common papers; it's reportedly more tolerant than the Apple LaserWriter to paper-quality changes.

Being a water-based ink, the page comes out "wet" to some degree, depending on the coverage, and should be allowed to dry for 20 seconds or so before handling. And, yes, if you send the sheet through the sprinkler, the image will smear and wash off. Normal skin moisture is not enough to cause a problem. Samples from the DeskWriter looked clean, sharp and with an attractive "blackness" and density to me.

HP seems to acknowledge the perception of a weakness in the ink formulation, as expressed by

several Mac Users. They are at work on a revised formula that will address this complaint. If/when resolved, just slipping in a new cartridge will "retrofit" a printer to the latest configuration.

Two Mac Users have purchased DeskWriters (you'll know who by looking for the HP Tee shirts "won" by these rogues in a drawing!) and expressed great satisfaction with the printer. If you can live with the Apple QuickDraw routines... that is, you don't need the PostScript output for all of its graphics capabilities and current base of fonts... then the DeskWriter may well be a printer that you should investigate.

Other Questions...

and hints that were fielded by *Mike Carlson* and *David Stovall*, co-coordinators for the Mac User SIG, included the wish from one HyperCard programmer for a means to access compressed stacks in realtime (no answers here), how to change startup screens (several DA or INIT programs will randomize from a group of screens at startup or on demand) and a wish for a MacWrite spelling checker that will flag things such as a lowercase "i" as being a misspelling of "I" as a word (no easy, one-step answer on this). My favorite was how to move good looking scans of small objects such as postage stamps or coins into HyperCard. Those who have done this say that blowing up the object (image) with a photocopier before scanning, scanning, then reducing to paste it into HyperCard will give good results.

Oh, Yes...

don't forget that there are two new Mac SIGs now active for those of you who may not live in the metro area. Check the calendar for information on the groups in New Richmond (WI) and Grand Marais (MN), if you find those locations more advantageous. Both are now meeting on a monthly basis to further the interest and understanding of Mac Users in those areas.

More bytes later...

TWE





Microsoft Works

by Ed Spitzer

At our July Works SIG meeting, the main topic of discussion was importing data from a WORD word processing document (with merged data) to a WORKS database so that the same information could be used as a mail merge with WORKS word processing files. The problem was how to convert comma delimited lines of data (like name, street address and city) as fields for database use in WORKS, that requires tab delimited lines. No one at the meeting had done this type of conversion so we had to experiment. It turned out to be child's play, and we had this problem solved in no time.

We didn't have a WORD document to play with, so we created a word processing document in WORKS with commas between planned fields of information (the commas could just as easily be returns). We then used the REPLACE function from the Search menu and converted all commas to tabs. Our last step was to create a data base with the number of fields that corresponded to the data that was now tab delimited. We then copied and pasted that data into a WORKS data base. That was it!

Are you one of those WORKS abusers that likes to have multiple files on the desktop when doing certain things like working with business files, only to want a different set when working on personal files?

WORKS 1.1 allowed you to do this by putting the files on your desktop, sizing them if you wanted, saving the files and then quitting WORKS. You would then see a start up icon that looked like a desktop and said "Resume Works". Whenever you wanted that set of files, all you had to do to automatically open those files on your desktop was to double click on that icon and presto (well, maybe not that quick)! You could also rename that desktop file (to something like "Business") while in the finder. You could then repeat this process to make another desktop manager file that could be renamed to something else, again while in the finder. Now you would have more than one desktop manager that you could use, depending on your needs at any given moment. While the end result was practical, the

process was a drag (and I don't mean a mouse drag). You always had to quit WORKS and restart it to get on with whatever it was you were doing that made you decide to create multiple desktops in the first place.

For example, when I was your Membership Coordinator, I had several files I would bring up to my desktop when printing labels or cards. I had a word processing file for the labels you see on newsletters, a file for printing out membership cards and another one for reminder cards that I would send to you for your membership renewal. And, of course, I had a data base with your names, addresses, expiration dates, etc. I would merge appropriate fields to whichever word processing file I was working on and then print out labels, reminder cards or membership cards with pre-established page settings. Rather than selecting these files individually, I would open all four of those files at the same time by double clicking on the Miniapple Desktop icon or the name of that file when I decided to open those files. If I ever wanted to modify that arrangement though (this happened fairly often because I was always thinking of new and better ways to do things that didn't always turn out to be new and better) I would have to follow the procedure described above.

WORKS 2.0 and 2.00a now have a means of making desktop configurations without quitting and restarting all the time. In the File menu, there is a MAKE WORKS DESKTOP... item. You put whatever files you want on the desktop and then select that item. It will bring up a dialog box that asks you, among other things, where you want to save this desktop file. You have the option of renaming the default, "Works Desktop". That's it! You don't have to quit WORKS and you don't have to rename the file from the finder. You can now go on with what you were doing before you so rudely interrupted progress with your idea to create these little desktop monster managers.

One other new feature of the File menu is the "Close All..." item. With the "Close All...", you can now close all files without quitting Works. This is nice if you want to put a different set of



files on the desktop that would exceed the limit of 14 files on the desktop (10 in Works 1.1) or you are running out of memory. Instead of closing each current file individually, you can now do it with one efficient action.

At our September meeting, Ken Edd and I will demonstrate printing labels and envelopes via the mail merge features of WORKS 2.0. We will have an ImageWriter there and several different size labels for testing. If you are having prob-

lems printing labels or envelopes with WORKS and would like some assistance, bring your labels or envelopes as well as your word processing and data base files on a disk so that we can review your settings and arrive at a solution.

If you have any questions, comments, corrections or contributions for future articles on WORKS or topic discussions at our WORKS SIG meetings normally held on the second Tuesday of each month, please let me know. 



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Microsoft™ Works



Hyperion Hyperpyrexia

by Jason Parker

In January 1985, I sent Apple one hundred bucks for Inside Macintosh. My computer was only 3 months old, but already I was enthralled by its reaction to me. I wanted to control that reaction, and program ideas I had. When the mighty tome of Mac knowledge arrived in the form of two three-ring binders, I sat down and began to read. It soon became apparent to me that either I would learn to program the Mac Toolbox, or I could do my school work. School work won out (barely).

Nearly three years later I bought a copy of Danny Goodman's *Complete HyperCard Handbook* and read it in four days flat, cover to cover. Immediately I began to program ideas that had cluttered my mind for years. I even did school work, programming a backward chaining expert system in HyperCard ("you're using Hyper... what?").

You've heard these stories before, but I feel its important to occasionally stop and think about the wonders of life. Bill Atkinson has changed the landscape of computing as much as anyone. He gave us QuickDraw, MacPaint and HyperCard. Where would the Mac be without them? What would I be doing now? HyperCard has touched many of us. It has given us a glimpse of what computers can do, what they should be able to do. From this spirit of wonder and excitement springs this article.

I'd like this article to be not only a place for HyperCard tips, but a place to discuss computing as HyperCard makes us aware of it. Since this article is for you, I want to let your submissions determine its direction. If you have something you want to say or talk about, send it in (to Hyperion c/o Mini'app'les). If you've got a HyperCard problem or idea and need a nudge in the right direction, send that in too. This is your space.

MacUsers
Sep 7
Southdale Libray
"My Favorite DA"

A deBug Handler for Tired Programmers

I was programming the other day and things were not going well. Adding script lines to display variables and wait for my mouseClick was becoming tiresome. So I thought "Why not make a handler for it?". The first thing to think about when you've got an idea for a handler is not what, but where! Since I want my "deBug" handler to be accessible in the stack I am programming in, the Home Stack script makes the most sense.

The Home Stack is the final funnel for HyperCard commands and messages. A good understanding the HyperCard Message Passing Hierarchy is essential to creating effective scripts (see Scoping HyperCard below). I try to put as little scripting as possible in Buttons and Fields, preferring Cards, Backgrounds, and Stacks. At the same time I try to make each handler as generic as possible, so that its function can be more widely used. There are other benefits as well. In one Stack I had seven buttons that had roughly the same script. By moving most of each button script into the card script, I removed about 600 lines of duplicated code! Anyway. Here is the deBug handler I created:

```
on deBug what1,what2,what3,what4,↵
    what5,what6,what7,what8,what9,what10
    put "deBug *" && what1 && what2 &&↵
    what3 && what4 && what5 && what6↵
    && what7 && what8 && what9 &&↵
    what10
    set the cursor to busy
    wait until the mouseClick
end deBug
```

The following is an example of a script which uses deBug.

```
on mouseUp
    put 6 into var1
    put 8 into var2
    put 9 into var3
    debug "var1 =",var1,"var2 =",var2,"var3↵
    =",var3
end mouseUp
```



The Message Box would look like this:

```
deBug • var1 = 6 var2 = 8 var3 = 9
```

Well, this is useful. Then after fixing my problem script I wanted to take out all those deBug lines that weren't needed any more. Since deBug was used in a single line it would be real easy to remove them in a script, hence reBug.

```
on reBug object
  if object is empty then
    ask "Remove deBug lines from what object?"
    if it is empty then exit reBug
    put it into object
  end if
  put the script of object into theScript
  put "Removing deBug lines from" && object & "..."
  repeat with xLine = 1 to the number of lines in theScript
    set cursor to busy
    repeat — this inner repeat is a bit tricky see the text
      if word 1 of line xLine of theScript is "deBug" then
        delete line xLine of theScript
      else exit repeat
    end repeat
  end repeat
  set the script of object to theScript
  put "deBug lines removed from" && object
end reBug
```

reBug is a bit more interesting. First lets look at the object parameter. The script checks for an empty object in case none was given. Some objects won't work as a parameter. For instance reBug "card button New Button" doesn't work because "New Button" needs to be surrounded by quotes. However objects with single word names will work. reBug "card button NewButton" works for a card button named "NewButton".

The other interesting part of this script is the inner repeat loop. At first glance it would seem that this is not necessary. Indeed at first I didn't have it. Here was the problem that the inner loop corrected. When a deBug line was deleted, all the following lines moved up by one. The next time through the loop xLine is incremented and skips the line that took the deleted lines place. A deBug line right after another would not be deleted (a fairly nasty bug!).

— This code produces a bug by not deleting "deBug" lines directly following other "deBug" lines

```
repeat with xLine = 1 to the number of lines in theScript
  if word 1 of line xLine of theScript is "deBug" then
    delete line xLine of theScript
```

“Stak Hak”



```
— this causes all following lines of theScript to move up by one
end if
end repeat
```

If time is nature's way of making sure everything doesn't happen at once, computers are our way of trying to see that they do. I hope that reBug doesn't live up to its name in your scripts.

Scoping HyperCard

In the computer programming world, the use of variables follow what are called scoping rules. The Scope of a variable is that portion of code in which a variable reference can occur¹. The scope of most variables in HyperCard is confined within the handler in which it is used. It extends from the point at which the variable is first initialized or used, until the end of the handler. It is important to note that a variable's scope does not extend to handlers that may be called within the first handler that defines the variable's scope.

```
on scope
  add 1 to myVar — This line produces an error because myVar is not initialized to a value
yet.
  put 5 into myVar — The scope of myVar is from here to the line "end scope".
  noScope — call (1)
  noScope myVar — call (2)
end scope
```

```
on noScope newVar
— (1) myVar's scope does not include this handler.
— (2) Even if you had passed myVar as a parameter, it is just copied into
— the parameter for this handler and becomes an entirely new variable,
— in this case named "newVar".
end noScope
```

Global variables have special privilege in HyperCard. Their scope extends to all scripts in HyperCard, even if you've changed stacks. To talk about global variables we need another important concept related to scope; the visibility of a variable. Though code might be within the scope of a variable, the variable may still not be visible. A global variable is not visible in a handler, unless it is declared with the HyperCard command Global.

```
on globalScope
— All handlers are within the scope of all HyperCard global variables.
— But no global variables are visible in this handler because none are declared using
Global.
end globalScope
```

```
on globalVisible
  global aVar
— the global variable aVar is visible in this handler
end globalVisible
```

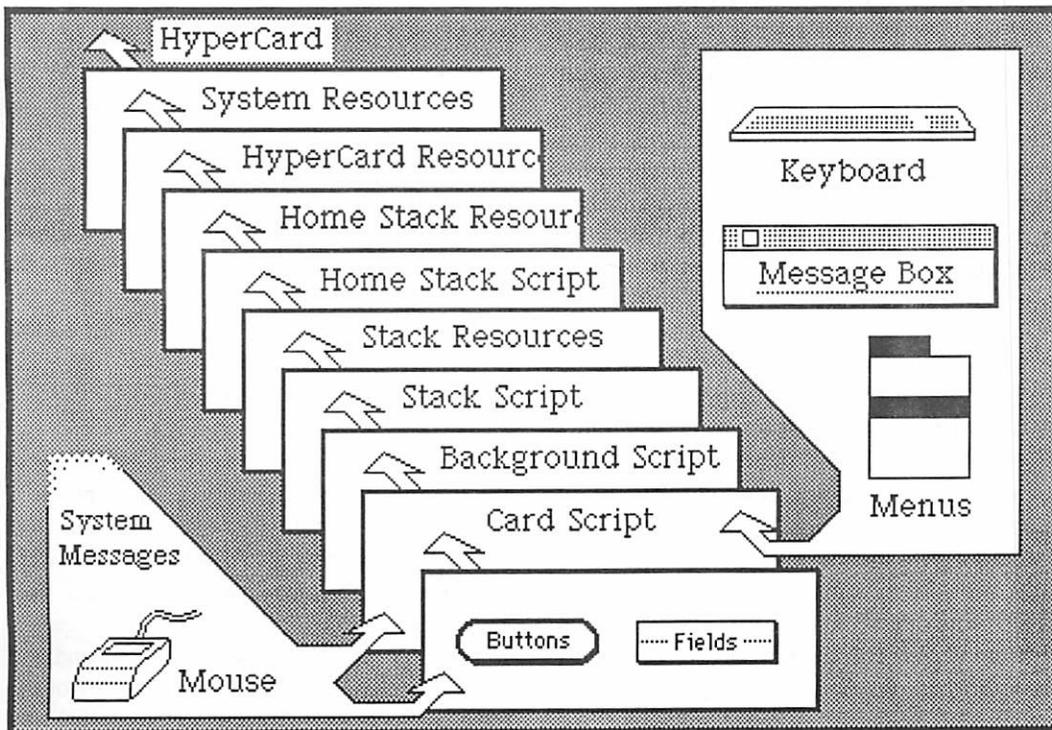


HyperCard handlers have analogous scoping rules as well. The scope of a handler is defined by the path messages may follow in travelling up the hierarchy to reach the handler in question. Equally important for handlers is visibility. A handler in a stack script has a scope extending throughout that stack. Messages can originate from Buttons, Fields, Cards, Backgrounds, the Message Box, the Mouse, the Keyboard and even HyperCard itself. But even so, that handler may not be visible from the entire stack. If a handler of the same exact name is placed in a card script, then our stack handler is not visible to any message flowing through that card.

HyperCard Message Passing Hierarchy

All of this stuff is important when programming in any language. But it is particularly useful when thinking about the placement of HyperCard handlers. Awareness of a handlers scope and its visibility to messages meant for it, can save grief while leading to efficient, elegant stacks.

1. Guy L. Steele Jr., Common LISP, The Language p.39
2. Apple Computer, HyperCard Script Language Guide: The HyperTalk Language p.16





What They Didn't Tell You

An Ongoing Critical Evaluation of Macintosh Software

by Frank Van Alstine

No sooner did I report to you that Freehand 2.0 prints TIFF grey level files at a speed best measured in furlongs per fortnight when the friendly mailman brought me a new free Freehand upgrade to version 2.02. I have not had much chance to use it yet, but I am happy to report that among the "fixes" are a major improvement in printing speed. A faceplate I am designing that contains two imported TIFF files of about 1 meg each now prints in 4 minutes instead of 2 hours! The program is much more useful for me now. If you own Freehand 2.0 call Aldus and ask for your free upgrade; you need it.

Speaking of Upgrades, Where is the One MacProof Promised?

MacProof 3.0 was not the best spelling program around, but it was the only one that worked with PageMaker. PageMaker is a difficult program for other utility programs to interface with because it stores data in a way that other programs do not expect. Thus, clever programs such as Lookup or Word Finder cannot be used with PageMaker because when they try to write a corrected or replacement word back into a PageMaker file, they corrupt the file and cause PageMaker to crash hard, usually losing all your data.

MacProof 3.0 actually could spell check PageMaker 3.0 documents with one catch – it translated all the text it read into the format of the beginning of the paragraph being checked and all other formatting was lost. Thus if you had a document with lots of italic, bold, or different fonts, those format changes were wiped out. I like to write directly in PageMaker so much that I put up with the limitations of MacProof just because it was the only way to spell check my work and it does other clever things like catching double words and some punctuation errors that many spelling programs miss.

Recently an upgraded MacProof was released, version 3.2. Although this was about a \$30.00 upgrade, we had a free one coming for completing a survey for the company. With some prodding, the software company, Lexpertise USA sent us the revised program. We were waiting for

it impatiently because it was supposed to proof PageMaker 3.0 files and Word 4.0 files without format changes. Even Aldus recommended it in their newsletter. I immediately started using it spell checking the new high fidelity component catalog I am now writing in PageMaker.

Much to my dismay I found that while MacProof 3.2 did preserve PageMaker's format structure, it completely discombobulated the text itself! When it wrote corrected text from the clipboard back into the PageMaker file, it wrote gibberish randomly into the file too – you know, "to be or not to be, that is the gafuzalob."

A quick call to Lexpertise finally got them to admit that maybe I got one of a few copies of the program that "was damaged" and that a new copy would come right out to me and that they would want the old program disk back.

That was three weeks ago and we have not yet received the revised undamaged version of MacProof 3.2 that is supposed to really work with PageMaker. If they did have it right, how come they have not shipped? The version of 3.2 we have now I don't trust with anything at all! So its back to version 3.0 again for now, and wait. Don't use MacProof 3.2 until we get to the bottom of this if you have files you care about.

Silicon Beach, You Did it to Me Again!

I was getting a little suspect of these guys after the low cost Super 3D fiasco. It seems as if Silicon Beach recently wrote to a whole bunch of SuperPaint owners and told us that since we were such good customers that we could get their Super 3D program for only \$50.00. That seemed to be too good a deal to pass up so I bit and sent them the \$50.00. In return I got a copy of the obsolete Super 3D 1.0 program (the one that only works at a 72 dot per inch "Paint" resolution – ugly, ugly, ugly) along with a letter from Silicon Beach saying essentially "Gee we sure hope you were not confused by our confusing offer. You certainly did not expect to get the current version of the program did you? By the way because you are such a good sucker (oops, customer) we will sell you an upgrade to the current Super 3D



version 2.0 for only \$203.00 more.” The answer to that was pretty simple – stuff it (no pun intended, Mr. Lau).

Now along comes SuperCard from Silicon Beach with great pre-release press clippings telling how it eliminates most of the shortcomings of Apple’s HyperCard. HyperCard won’t print full size sheets, has limited reporting functions, doesn’t run in color, allows only 72 dot per inch Paint type graphics and background text, and allows only one style of font per text field among other shortcomings. But it is such an easy to use and program free form database that we wrote our own small business bookkeeping system with the program. Using an interacting combination of eleven HyperCard stacks and the HyperTalk programming language, we use HyperCard to generate sales slips, purchase orders, mailing lists selected for whatever criteria we want, the Minnesota Sales Tax report form, a payroll records stack, a customer records database, and a monthly and yearly P and L spreadsheet. It also automates the process of showing unfilled orders, and outstanding receivables and payables. Only one entry is necessary for each transaction, our bookkeeping stack set dumps all the data to where it is needed and it is fully error trapped against typos and impossible entries. It even runs pretty fast. It can look at about 1500 sales and P.O. cards and generate a monthly and annual P and L statement in about 10 minutes. Our HyperCard based bookkeeping system works.

But, SuperCard promised full sheet of paper printing and editing (I would be able to increase the size of my sales and purchase order forms), it promised draw type background graphics and text (no more “jaggies”), and it promised to be compatible with my existing HyperCard programs so I bit again and bought it.

It isn’t compatible. It isn’t close. It isn’t even compatible with itself. For starters, the following are a list of SuperCard commands that simply are not implemented at all when scripting DoMenu statements. This list was lifted directly from the SuperCard runtime editor program script. Every time the command says “Beep” it means that the function the command is supposed to

provide does not work. Here goes:

- If MENU_ITEM is “Home” then Beep
 - If MENU_ITEM is “Help” then Beep
 - If MENU_ITEM is “New Button” then Beep
 - If MENU_ITEM is “New Field” then Beep
 - If MENU_ITEM is “New Background” then Beep
 - If MENU_ITEM is “Select” then Beep
 - If MENU_ITEM is “Select All” then Beep
 - If MENU_ITEM is “Fill” then Beep
 - If MENU_ITEM is “Invert” then Beep
 - If MENU_ITEM is “Pickup” then Beep
 - If MENU_ITEM is “Darken” then Beep
 - If MENU_ITEM is “Lighten” then Beep
 - If MENU_ITEM is “Trace Edges” then Beep
 - If MENU_ITEM is “Rotate Left” then Beep
 - If MENU_ITEM is “Rotate Right” then Beep
 - If MENU_ITEM is “Flip Vertical” then Beep
 - If MENU_ITEM is “Flip Horizontal” then Beep
 - If MENU_ITEM is “Opaque” then Beep
 - If MENU_ITEM is “Transparent” then Beep
 - If MENU_ITEM is “Grid” then Beep
 - If MENU_ITEM is “FatBits” then Beep
 - If MENU_ITEM is “Power Keys” then Beep
 - If MENU_ITEM is “Draw Filled” then Beep
 - If MENU_ITEM is “Draw Centered” then Beep
 - If MENU_ITEM is “Draw Multiple” then Beep
- and so on.

This means that SuperCard does not do what it it is documented and advertised to do because the code for it simply is not finished. This is not even a real “beta” release, it is more like something kludged up to pass around the office to see if something can be made from it.

Next we found that HyperCard stacks imported into SuperCard are not directly useable. It takes lots of work and re-writing to even try to use them because of another fundamental error. HyperCard works with **stacks** containing piles of **cards**. SuperCard works with **projects** containing groups of **windows** (their name for stacks) containing piles of **cards**. Essentially, groups of inter-related stacks are organized together into projects so that you can have several stacks (windows) open at the same time. Unfortunately, SuperCard’s language translates the word “stack” to mean project instead of window. Thus, when you import a HyperCard stack, each command in

What they didn't tell you



that stack that uses the word "stack" must be located and re-written using the word "window" or it will not run. Unfortunately, a global find and replace won't work. Of course if your scripts try to generate new fields and buttons, you are out of luck and these are not the only limitations to running imported HyperCard stacks.

You will also find that physical relationship of all your fields, buttons, and background graphics will be bastardized when you import a HyperCard stack into SuperCard. Nothing will line up any more. You will have to realign everything. In addition, you lose all of the icon identities from your HyperCard buttons. They all either translated into generic SuperCard equivalents or sometimes into never-never land. Start over building the appearance of your finished work and don't quibble that many of the HyperCard button Icons cannot be replicated at all.

Next we found that SuperCard's printing capability much more limited than HyperCard's. While HyperCard does not have the full printing flexibility of many commercial database programs, it does have a demon label printing routine built in and it will generate useful reports formatted into either columns or rows. The print routine is adequately fast. I can extract a mailing list of about 600 names picked for being current subscribers to my monthly *Audio Basics* newsletter from a 3000 record database and print it to 11 x 3 (33 per page) Avery labels in about one-half hour. HyperCard steps through my database at the rate of 400 cards per minute. SuperCard won't print 11 x 3 labels at all! Its print routines are not built in, they are simply dismally incomplete SuperCard stacks. A discussion of all that is wrong with the print routines and all the ways they bomb and violate Mac interface rules would take another full issue herein so I won't discuss it other than to note that is is disgusting.

The speed of SuperCard is staggeringly slow! Remember that I mentioned that HyperCard could step through my Records stack at the rate of 400 cards per minute. When I imported this stack into SuperCard, SuperCard ran at the rate of about 6 cards per minute. It took over eight hours to copy my Records stack into SuperCard and

that is with a Mac II with 8 meg of memory. With a Mac Plus, the transfer would have taken over 32 hours. Somehow, I need my bookkeeping program to work a bit faster than that.

Why is SuperCard so slow? Because it is not HyperCard and is not written as a superset of the original HyperCard source code. It is a completely different program that kind of replicates some of HyperCard's functions, but without Bill Atkinson's idealizations of many internal routines for speed and transparent operation. Granted, some of Atkinson's speed optimizations probably cannot be done if you want draw type graphics on every card and full size cards with scrolling windows. But the trade-off for speed is rather worthless if you plan to use SuperCard to do anything using more than a few cards at a time. I cannot use the "features" because the basic functions to support the real word use of those features is either slow or incomplete.

So what is SuperCard? Essentially it is an incomplete hacker's program best used for making cute little yuppy graphic stacks. If you are trying to get more power out of HyperCard, you better wait for Apple's own HyperCard 2.0. SuperCard simply isn't super at all.



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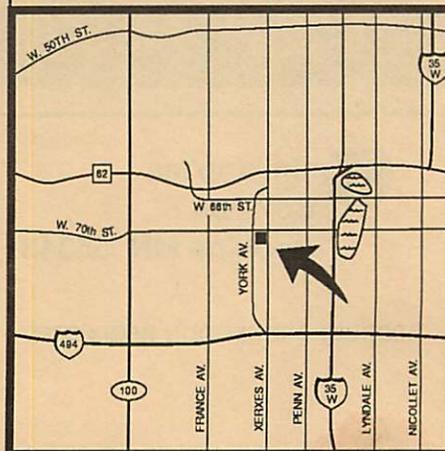
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Mini'app'les 1989 Membership Drive



The Club is looking for New members, Co-operative Dealers and Schools, Renewals and Referrals.

With your help and enthusiasm, we continue our efforts to build and strengthen member resources within Mini'app'les for 1989!

Add YOUR helping hand!

Cooperating Schools:

Anoka Technical Institute
Anoka, MN 55303

Bloomington Comm. Ed. Service
Bloomington, MN 55420

Brooklyn Park VoTech
Brooklyn Park, MN 55445

Dakota County Technical Institute
Rosemont, MN 55068

Hennepin Technical Institute
South Campus, Eden Prairie, MN 55344

Kennedy High School
Bloomington, MN 55420

Minneapolis College of Art and Design
Minneapolis, MN

IND Corp

1620 County Road C
Roseville, MN 55113

Moore Business Forms

3650 Hazelton Road
Edina, MN 55435 929-4334

Software Renters. Inc.

889 Grand Avenue
St. Paul, MN 55105 227-5216

The GIZMODE Data Bank

4289 Sheridan South
Mpls, MN 55410 (modem) 929-6879

Twin Cities Computer Network

75 South 5th Street — Suite M-100
Minneapolis, MN 55402 (modem) 349-6200

St Paul Schools-Community Education
St Paul, MN

Wisconsin Indianhead Technical College
New Richmond, WI 54017 715-246-6561

Cooperating Businesses:

Businessland

7400 France Avenue
Edina, MN 55435 893-1343

Computer Applications

7101 France Avenue
Edina, MN 55435 920-1154

Computer Pavilion

Pavilion Place - 1655 West County Rd B2
Roseville, MN 55113 631-2766

Computerland-Hopkins

11319 Highway 7
Hopkins, MN 55343 933-8822

Computerland

2471 Fairview Avenue North
Roseville, MN 55113 636-2366

Computerland

7025 France Avenue
Edina, MN 55435 920-6100

First Tech

2640 Hennepin Ave. South
Minneapolis, MN 55408 377-9300

Hagen Office Equipment

801 West 77-1/2 Street
Richfield, MN 55423 866-3441

Heath-Zenith - Hopkins

101 Shady Oak Road
Hopkins, MN 55343 938-6371

Hutch Computer Industries (H.C.I.)

8017 Glen Lane
Eden Prairie, MN 55344 944-1356

Apple II SIG

Sep 6

Washburn Community Lib.
Educational Software

MacUsers

Sep 7

Southdale Library
My Favorite DA!



mini'app'les

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