



mini'app'les

apple computer user group newsletter

B'Case

JULY 1979

VOL II No 6

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NEXT MEETING

Ken Brumbaugh of M.E.C.C. will be the speaker at our next meetings. Ken will field questions on topics related to M.E.C.C. For example, the question has arisen on several occasions about who may download programs from TIES, or what is available. People I think are interested in the availability of the many Apple programs being converted (by Jim Henke, our Technical Advisor). So please bring your questions for Ken to the next meetings.

Minutes of June 20th Meeting.

Meeting called to order at 7:45 by president Dan Buchler.

Old Business:

1. A distribution system for tapes and disks has been developed. Disks will be available at: Zim-computer Team-Henneken Store Computerland-Morgan Circle

Interested persons will sign up to get the copies, and will be responsible for the disk from the time they get it, until it is returned to the store (maximum of three days). They will also have to contact the next name on the sign-up list. A charge of \$.50 will be made to defray eventual disk wear and the librarians time and effort for each disk or portion of the disk that is copied. Tapes will also be left in the store, but will also be sold (single tape containing the first three volumes of programs) for \$4.00 each through Dan Buchler.

2. We still need newsletter input. If we are to keep the interest of others we must contribute. Further, the club will die if everyone waits to copy someone else's work!!!!

3. If you are interested in giving or taking some sort of classes through the club contact D. Buchler.

4. The missing pages of the WOZPAC have been copied and the copies are available from D. Buchler if you ordered in advance.

New Business

1. We have ordered the CALL A.P.P.L.E Tape of the month for the club. Should we get others? No decision made.

2. Could we get the programs that teach BASIC for use by club members? John Wheatly moves and Dan Rotenbers seconds that D. Buchler be empowered to look into the program, and the ethics of making it available to club members (who) would then not have to buy it.). Approved.

3. The problem of language in the newsletter was noted and taken care of.

4. Jim Henke Moved and S.K. Johnson seconded that membership lists be prepared for distribution to club members. Approved. Those who wish to have their names left off of the list should contact Chuck Thiesfeld ASAP.

5. The By-laws in the April issue had not been approved. G. Parker moves, S. Ibrahim seconded that they be approved as printed. Carried.

6. The problem of whether to carry ads in the newsletter was discussed. Paid or Free? Club members or stores? Kind? Much discussion, but no conclusion.

After several communications were read, the meeting was adjourned to hear four short talks.

MINI'APP'LES USER BANK - STATUS

The user bank library is ready! Thanks to the efforts of Keith Madonna (Our Librarian) and Rob Wentworth (Our Program editor), we now have a user bank of 15+ diskette sides. The bank consists of 2 VOLUMES. Volume I is essentially the same as that published in the June newsletter. To recap, there are 4 diskettes of programs collected locally including several developed by our own members. This includes a UTILITY DISKette. The last 2 diskettes were obtained through a program swap with the Apple Pi users group of Colorado. Volume II consists of 5 double sided disks (that is, 10 sides). These disks were obtained through Computerland, who in turn received the disks from an Apple Enthusiast who, through his job, travels around the country.

While travelling, this Enthusiast has made it a point of collecting programs. We thank this person and Computerland for providing us with those programs. A catalog of all of these disks is included in this issue for your information. It will be apparent to anyone comparing the various individual diskette catalogs that there is some duplication of programs. We regret that such is the case. However, in order to get these programs to you as soon as possible, we felt that it would not be expedient to edit the diskettes at this time. For similar reasons, there may be some copyrighted programs within either Volume. We solicit critique from the Mini 'App'Les users in identifying duplicate programs and copyrighted programs, if there are any. It should be noted that no one person in our group has been able to run any but a small percentage of these programs.

Therefore there may be some programs that will not even run! It is our intent to develop a program submission form and qualification procedure. It must be obvious to everyone that, because of the large quantity of programs involved, such techniques would be completely impractical for qualifying these programs. Individual programs will be 'qualified' in the future.

LIBRARY DISTRIBUTION:

The procedure for distribution of the Library copies is as follows:-

1. A person desiring to borrow the library must place his/her name on the sign up list. Such a list was started at the June meetings. A separate list will be maintained at each of the 3 distribution points. If you want to put your name on the list, select the distribution point most convenient to you and call that store. If you wish, you may call the Librarian (Keith Madonna) or one of the club officers.
2. Persons who do not live within easy reach of a distribution point should contact the Librarian. We may simply add the names of such persons to the end of one of the lists so that after local demand is satisfied, diskettes could be mailed to persons on the list (See below).

We discourage the use of the USMAIL for this purpose unless there is no other convenient way of transporting the volume.

3. We are asking the computer store at the distribution point to make sure that the borrower is a member of MINI'APP'LES. We will supply membership lists for this purpose. We also are asking the computer stores to maintain the sign up lists on special forms which we will also supply. On these forms will be recorded in appropriate columns

(a) The day on which the volume was picked up by or delivered to the person borrowing the volume.

(b) If the borrower has paid (see below).

(c) If the borrower has taken a whole or partial volume (see below).

4. The borrower on picking up the volume, or having it delivered to him, assumes the responsibility of notifying the next person on the list. Since some of our users must optimize their time, it is courteous to notify the next person on the list as soon as a borrower sets his/her volume. The borrower is then responsible for setting the volume to the next person. The borrower may telephone the next person on the list and notify him/her that the volume is being returned to the distribution point. Or arrangements may be made between the two parties to set the diskettes to the next user. In the later case, the borrower must call the computer store distribution point informing them of that act.

5. It is our goal to move the borrowed diskettes through 2 borrowers per week. In other words a person may keep the volume for 4 working days or over one weekend. It is recognized that people may have difficulties here. It is suggested that a person on being notified he/she is next on list, determine his/her availability to copy the diskettes, etc. Then if a problem is anticipated to try and swap with someone else on the list. The idea is to keep the volumes moving so those at the end of the list don't have to wait too long.

7. Only one volume may be borrowed at a time. Our recommended procedure is for the first person on the list to pick up Volume I, leaving Volume II at the store. When the person is finished with Volume I, he/she sets it to the next person on list and then picks up Volume II. From then on, Volume II is one step behind Volume I.

7. There is a small charge for borrowing the volumes as follows:

Per volume - \$2.00

Per diskette if you don't want whole volume - \$0.50. Please make payment to the store on picking up the Volume, or mail to our treasurer (Chuck Thiesfeld).

8. The borrower must assume some responsibilities when borrowing the volume. If you lose or damage a diskette so that it cannot be reused, there will be a charge of \$8.00 (\$3.00 for the diskette, \$5.00 to recopy it). If you carelessly bomb it, that is write all over it, there will be a \$3.00 charge to rewrite it. We all recognize that things can go wrong that are out of our control. Therefore if, in the opinion of the Program Editor or Librarian a disk becomes unusable through accidental circumstances, there will be no penalty. We do ask all of you to take care of the diskettes.

9. The following computer stores have volunteered to act as distribution points: (a) Computerland, Morgan Circle, Bloomington (b) Team Electronics, Hennepin Avenue, Minneapolis (c) Zim Computer, Brooklyn Center

Please contact the most convenient one to you, if you want your name on the list. Note we will be updating lists at next meeting too.

BEGINNER'S TROUBLES.

I believe that there are many beginners in our ranks who have problems. I have problems and I am not a beginner! Please let us know what are those problems either by calling an officer, or at the meetings. We are here to help you.

DAN'S EDIT

Dan's EDIT, which is the UPPER/LOWER CASE EDIT described in last newsletter didn't get on too well with DOS. Dan, the President, sent a copy to Chuck Boodo who volunteered to eat his Apple if it didn't work. It didn't. Dan has a case of severe indigestion but won't say what apple he ate. Well Dan borrowed Keith's disk while Keith went fishing. There is now a working (to some extent) version of Dan's Edit compatible with DOS. The problem may be of interest to some of you more advanced technical types. The Wentworth subroutine package gets control by storing a JUMP vector at \$36 & \$37. Well that's OK until you do the following.

```
500 PRINT "OPEN "; F$
510 PRINT "READ ";F$
520 INPUT something
```

If the JUMP vector is to the special subroutine package, DOS goes off into the wild blue yonder.

Similarly, even if the INPUT is not part of a DISK READ sequence the same thing happens. The cure was to restore the original FDF0 pointer to \$36 & \$37 prior to any input and then POKE the new pointer back in prior to output.

Unfortunately, there is still one elusive intermittent bug which causes the DISK Output version to occasionally lose a record. The tape version is OK I think. Incidentally, for those who might have an old version that loads OK. It will work if you kill DOS.

NEW DISK HARDWARE!

Some interesting things are brewing in the field of disk hardware. Keith Madonna attended a meeting of the Minnesota Computer Society at which there was a talk by a person from Shusart. It seems that Shusart are teaming with Matsushita Electric of Japan to manufacture a low cost version of their disk. It will use a new head and be packaged in sheet metal rather than in cast aluminum. Storage capacity will be 70 K Bytes. OEM price is expected to be in the \$50 range, retailing for about \$125. If Apple buys them we might see disks retailing from them for near \$200 next year! According to Byte magazine, Nippon Electric of Japan are also rumored to be developing a 5 inch disk. In the July Byte magazine there is an advertisement for a "TDS-1A Hitachi Disk System; Apple II compatible - coming soon". There was also a recent report of someone having hooked up an 8 inch disk to an Apple and having working software.

MORE ON PRINTERS

In last month's newsletter, we talked about some printer attributes. The most rapidly changing attribute is 'price'! Two more manufacturers have announced printers in the under \$1000 price range, and which offers features comparable to the IP225 described in the last newsletter. These are Centronics with their model 730 printer, and the Anadex DP-8000. These two models together with the newer Integral Data Systems Paper-Tiger 440 all list for \$995. The first question that comes to mind is that in view of their lower list price, are they as reliable as their more expensive cousins? According to an article in the June edition of MINI-MICRO SYSTEMS, the answer is yes. Cost reductions have been achieved by such things as:

80 cols instead of 132.

50 to 112cps instead of up to 200.

Solenoid motors instead of stepper motors to advance the paper

In view of the fact that the hobbyist or small business user will not run the devices solidly for 8 hours a day or more, the above features are quite adequate for most applications.

Unfortunately, according to the advertised specs, only the IDS 440 has the graphics option (criteria #3). It also has 4 software selectable character sizes of 8.3, 10, 12 and 1.5 characters per inch. Wouldn't that be nice for this newsletter? However the Anadex has a 9 x 7 dot matrix head (criteria 4). It looks like this writer will have to continue dreaming about the ideal printer with everything on it for \$200! An interesting alternative to purchasing a printer was presented by Jim White during a talk he gave at the last meeting on the Hayes Micromodem II.

Jim, who is one of our members, has very thoroughly researched the Hayes Micromodem II, as he is contemplating buying one. One feature of the modem, allows remote operation of your computer from a terminal located anywhere and connected to the computer via the modems and phone lines. For example, if you have access to a terminal at work, and many of us do, one simply initializes the computer at home before going to work with a simple one character command. Then, using one of those terminals at work, which is probably a better quality device than you could afford, one may list or print just as if you were sitting at your own keyboard at home. The only cost of doing this is a small amount of wear and tear on the terminal. For that you must make your own arrangements with your company. A fringe benefit is the fact that printers are electro-mechanical devices, and therefore do need occasional maintenance. With the above plan one avoids that problem. With a plethora of new computers from T.I., Mattel, and others, one would expect someone soon to bring out a real cheap printer. So I will continue to contemplate buying a printer, but may spend money first on a Hayes Modem and/or a disk. (See article on Disk drive developments).

DISTRIBUTED APPLES.
 CLUSTER/ONE of Nestar Systems., Inc., Palo Alto is a centralized intelligent data base consisting of 2 IBM compatible diskettes. Storage capacity is 630K Bytes. The data base can be connected to up to 30 local (less than 250 feet away) Apples, PETs or TRS 80s. The price is \$5300 including a PET console. Each Apple connected thereto requires a (parallel ?) interface. The Apples may then store/retrieve data/programs from/to the central data base. How do you like them Apples???

TAPE USERS: It is hoped to have one or more C-60 tapes with the majority of the programs copied onto that tape by the time you read this. This time the whole of a C-60 will be used so that on duplication the counter numbers will still hold true. For those of you who were not at our last meeting, it was decided by a majority of the tape users (with some persuasion from the President), that tape distribution would be in the form of purchasing a duplicate tape made on the copy machine at the Heathkit store. The charge to members is \$4.00 per tape plus postage if required (42 cents). We distributed 8 copies of a tape of the first 4 disks of volume I and most people seem to be able to read the tapes. We are forced to use the brand sold by Heathkit which is supposedly of 3M manufacture but of unknown quality.

:CATALOG

DISK VOLUME 254

- *I 002 SOFTWARE BANK II
- *A 005 MORSE CODE READER
- *A 009 MORSE CODE SENDER
- *I 023 WEAVER
- *B 006 BETTER-EXAMPLE.SCREEN
- *A 010 APPLE PI DEMO
- *A 003 RECIPE CONVERSION
- *I 003 MAC START
- *I 030 LOGO SPLIT
- *I 033 CONES
- *A 017 TITRATION
- *I 024 AIRCRAFT INSTRUMENT SIMULATOR
- *I 002 AIRCRAFT (LOAD/HINEM 8192/RUN)
- *I 008 CHRISTMAS TREE & MSG
- *I 002 BETTER-EX.SC A1024 L1024
- *A 005 BALLISTIC C
- *I 004 STORE WINDOW DISPLAY
- *I 007 MORSE CODE
- *I 007 MORSE TEACHER

:CATALOG

DISK VOLUME 001

- *I 002 SOFTWARE BANK II
- *I 013 TRANSFER
- *I 023 ONE-PLAYER FOOTBALL
- *I 010 TORPEDO BY ROD
- *I 016 PROGRAM STARTREK
- *I 018 DRAGON MAZE MOD BY TOGNAZ
- *I 009 ADVANCED DRAGON MAZE
- *I 009 LUNAR LANDER
- *I 033 SIMPLE 5 HEURISTIC CHESS
- *I 005 RUSSIAN ROULETTE
- *A 014 NIM
- *A 015 TAXMAN
- *I 037 BATTLESHIP VERS 78.0723
- *A 011 TIC-TAC-TOE
- *I 009 DOLLAR SLOTS
- *I 018 TIC TAC TOE IN COLOR
- *A 019 WORD SEARCH PUZZLE
- *A 010 CORRAL
- *A 022 JOUST
- *A 009 ATOM 20
- *I 009 LORES LUNAR LANDER

:CATALOG

DISK VOLUME 025

- I 002 MINI'APP'LES SOFTWARE
- A 011 DAN'S EDIT(DISK OUTPUT)-ROM
- A 011 DAN'S EDIT (48K DISK)
- B 009 DAN'S SUB (48K)6100(4100,4900
- A 010 DAN'S EDIT (16K/32K)DISK - ROM
- B 009 DAN'S SUB (16K/32K)DISK - ROM

THE MICHIGAN APPLE
 32905 W 12 MILE RD
 SUITE 320
 FARMINGTON HILL MICH 48018

THIESFELD, CHARLES
 8610 RUSSELL AVE. S.
 BLOOMINGTON MN 55431

WHEATLEY, JOHN
 3120 PORTLAND AVE. S.
 MPLS MN 55407

WHITE, JAMES A.
 1757 20TH AVE. NW
 NEW BRIGHTON MN 55112

WHITEHOUSE, DAVID L.
 6325 PERRY AVE.N.
 BROOKLYN CENTER MN 55429

ZIM COMPUTER INC.
 ATTN: JOE MANN
 5717 XERXES AVE NO.
 BROOKLYN CENTER MN 55429

MCCOY, SEAN
 7212 KYLE AVE.
 BROOKLYN CENTER MN 55429

BIRKHOLZ, DOUG
 APT 208
 6417 CAMDEN AVE. N.
 BROOKLYN CENTER MN 55430

HAGEN, JIM
 3546 JUNE AVE. N
 ROBINSDALE MN 55422

MEYERS, JACK C.
 7400 2ND AVE.
 RICHFIELD MN 55423

ROHLING, MELVIN M.
 240 GRANDVIEW AVE.
 APT 302
 ROSEVILLE MN 55113

BILL'S VENDING CO.
 W.H. LAFFATTA
 3900 BEARD AVE SO.
 MINNEAPOLIS MN 55410

WEINER, HOWARD
 3601 PARK CENTER BLVD.
 MINNEAPOLIS MN 55416

CONQUER, C. A.
 HONEYWELL PLAZA
 MN12-2276
 MINNEAPOLIS MN 55408

TEAM HENNIPIEN
 2640 HENNIPIEN AVE.
 MINNEAPOLIS MN 55403

TEAM SOUTHDAL
 SOUTHDAL CTR.
 BLOOMINGTON MN 55431

:CATALOG

DISK VOLUME 254

*I 002 SOFTWARE BANK II
 *I 005 BSTAT
 *I 011 MASTER KEY
 *I 017 IMPROVED CATALOG
 *I 013 TRANSFER
 *I 011 DISK TO DISK TRANSFER
 *A 026 GOLF
 *A 014 COLORS FP
 *I 049 HAUNTED HOUSE
 *I 004 COLOR CLEAR
 *T 006 CATALOGFILE
 *I 017 SINGING TUNNELS
 *I 010 STARWARS 3D
 *B 014 SW2
 *I 025 ARTIST
 *I 004 CONCEPTS-2
 *I 041 MONOPOLY
 *I 005 LIFE
 *B 003 BLIFE
 *I 043 ESCAPE 2
 *I 025 CRYPTOGRAM
 *I 006 PRT CAT
 *A 006 DISPATCH TABLE LIST
 *A 008 TWO DIAMONDS
 *I 006 AGE GUESS
 *A 006 RUBBER ROSE

:CATALOG

DISK VOLUME 254

*I 002 SOFTWARE BANK II
 *T 001 HOUSEHOLD
 *A 008 DIRECT REDUCTION LOAN CALC
 *I 022 TRANSPORTATION COST MINIMIZE
 *A 016 STOCK OPTION/COVERED HEDGE
 *A 004 COST FILE ENTRY FOR INVENTORY
 *A 009 INVENTORY OUTPUT TO PRINTER
 *A 008 STOCK PORTFOLIO VALUATION
 *A 004 TREASURY BILL VALUATION
 *A 003 WORLD'S SHORTEST INVENTORY
 *A 003 WORLD'S SHORTEST INVENTORY READOUT
 *A 015 BUDGET
 *A 003 FUTURE VALUE OF AN INVESTMENT
 *A 003 REGULAR DEPOSITS
 *A 003 REGULAR DEPOSIT ANNUITY
 *A 028 FINANCE
 *A 016 SAVINGS
 *A 004 MENU
 *A 002 BLANK
 *A 003 REGULAR WITHDRAWALS
 *A 004 BASE CONVERTER

:CATALOG

DISK VOLUME 254

I 002 SOFTWARE BANK II
 I 013 TRANSFER
 T 001 CEL
 B 014 ASDISK
 I 008 SAMPLE.SOURCE
 I 011 APPLE-TALKER
 A 003 SUPER ROSE
 A 005 CELL
 A 006 STEAM ENGINE
 A 003 SALT II
 *A 003 ROSE TIME
 *I 018 TEXT & HIRES
 *B 006 IMPROVED HIRES
 *A 003 CUBE
 *A 004 CUBES ON PLAIN
 *A 008 SCHEMATIC DEMO
 *A 006 SCHEMATIC
 *A 006 NEW CELL
 *B 005 HRS.CHR
 *A 002 CHARDISP
 *A 005 WYDELTA-DEMO
 *I 002 SQUARES
 *A 002 CYLINDER
 *A 002 STRING CYLINDER
 *A 002 DIAGONAL CYLINDER
 *A 003 DOUBLE CONIC
 *A 003 DIAGONAL CONIC
 *A 002 PIPE CROSS SECTION
 *A 002 RATHER STRANGE CONIC
 *A 002 ANOTHER STRANGE CONIC
 *A 002 FRUSTRUM
 *A 003 HELIX
 A 003 CYLINDER WITH HELIX

:CATALOG

DISK VOLUME 254

*I 002 SOFTWARE BANK II
 *I 013 TRANSFER
 *I 002 LADY
 *I 014 PHONE LIST
 *A 040 LIBRARY INDEX
 *A 034 PEOPLE'S DATA BASE
 *A 004 DUPLICATE MAILING LABELS
 *I 028 WELCH MINI LABELER
 *I 030 GIANT TYPEWRITER
 *I 005 THREE-D PLOT
 *I 029 THE MACHINE
 *I 005 DAZZLER III
 *I 003 SEQ REM
 *B 005 SEQUENCE
 *I 002 CHORD PLAYER
 *B 022 RANDY'S-ALL ASS A900L1426
 *I 010 MUSIC
 *B 002 JESU

*B 003 TOCCATTA
 *B 002 HAPPY BIRTHDAY
 *A 004 ALPHABETIZE
 *I 008 BLOCKAIDE2
 *I 010 BETTER BLOCKADE
 *B 002 LISST
 *A 017 ADVANCE BOXING
 *I 017 AIRPLANE DOGFIGHT
 *B 003 B-AIRPLANE DOGFIGHT
 *A 003 SINE3D
 *A 006 LAR.SIN
 *A 003 LAC.SIN
 *B 019 LADY(ML)
 *B 006 B-TEXT&HIRES

:CATALOG

DISK VOLUME 254

*I 002 SOFTWARE BANK II
 *I 052 APPLE 2I
 *I 035 POKER
 *I 013 SEA CHASE
 *I 008 BAGELS
 *I 005 KENO
 *I 007 BATTLE SHIP
 *I 030 CONNECT FIVE
 I 004 COLOR CLEAR
 A 003 COLORS FP
 *A 006 DISPATCH TABLE LIST
 *I 004 ARTIST
 *A 030 DEVILS
 *I 009 COLOR MATH
 *B 035 HIRES
 *I 011 HIRES DEMO
 *A 008 TWO DIAMONDS
 *I 009 DISK TO DISK TRANSFER
 I 005 AGE GUESS
 *A 006 RUBBER ROSE
 *I 035 APPLIEDITOR
 *I 006 IMPROVED CATALOG
 *I 004 BSTAT
 *T 006 CATALOGFILE
 *I 014 TRANSFER

:CATALOG

DISK VOLUME 254

*I 002 SOFTWARE BANK II
 *I 013 TRANSFER
 *T 002 PICTURE.EXEC
 *B 034 TWO.WOMEN.A#2000.3FFF
 *I 003 TWO WOMEN
 *B 010 B-TEXT&HIRES
 *I 010 TEXT&HIRES
 *A 004 HEAPSORT
 *T 001 SORTFILE
 *I 022 SLIDE SHOW 2
 *B 034 LADY RANDOM.PIC
 *B 034 LADY BE GOOD.PIC
 *B 034 LADY FOUND UNDER A ROCK.PIC
 *B 034 DIP CHIPS.PIC
 *B 034 SQUEEZE.PIC
 *B 034 TEX.PIC
 *B 034 MACROMETER.PIC
 *B 034 TIME MACHINE.PIC
 *B 026 CHURCHILL.PIC

:CATALOG

DISK VOLUME 002

*I 002 SOFTWARE BANK II
 *I 043 APPLESOFT
 *I 016 DRAGON MAZE
 *I 016 HIDDEN MAZE
 *I 008 BIORHYTHM
 *I 023 OTHELLO
 *I 030 STARWARS
 *B 005 HIRESMACH
 *I 012 HIRES
 *B 010 STARWARS II
 *I 010 STARWARS IIB
 *B 002 THEMEB
 *I 002 THEME
 *I 005 DECIMAL<>HEX
 *I 001 SHUFFLE
 *B 002 TONES
 *I 001 TUNE
 *I 002 SCALE
 *I 002 TONES2
 *I 004 MAZE
 *B 002 RISE TONE
 *B 002 RIP
 I 002 RIPPLE
 I 003 RIPPLE2
 *A 002 GRAPH
 *A 002 COLORS
 *A 002 UGLY BASIC
 *I 010 COLOR DEMOS
 *I 022 ANIMATION
 *T 007 CATALOGFILE
 *I 012 HIRES52
 *I 012 HIRES S2
 *I 013 TRANSFER
 T 001 B

MINI'APP'LES

JULY 1979

NEWSLETTER

A.P.P.L.E. DEC79XC ATTN: WAL GOLDING, PRES 6788 39TH AVE. SW. SEATTLE WASH 98136	ANDERSON, DEAN ROUTE #1 COLOGNE MN 55322	APPLE-SIDER 5787 CHESAPEAKE WAY FAIRFIELD OHIO 45014	APPLE CORPS LENARD FEIN 2015 FORD ST AUSTIN TX 78704
ARETT, KENT 12828 FOREST MEADOW DRIVE MINNETONKA MN 55343	B. FERRELL APPLE CORPS CO-ORDINATOR 14255 MIDWAY RD. DALLAS TEX 75234	BOODY, CHARLES G 323 1/2 W CHURCH BELLE PLAINE MN 56011	BRAKER, STEVEN A. LAKEVIEW HILLS #210A CHASKA MN 55318
BROWN, R. C. (CHARLIE) 184 5TH AVE. N.E. STEWARTVILLE MN 55976	BROWN, DEWITT 1650 9TH AVE S.E. ROCHESTER MN 55901	BROOKS, STAN 8386 CENTENNIAL HALL 614 DELAWARE AVE. SE. MINNEAPOLIS MN 55455	BRUMBAUGH, KENNETH M. E. C. C. 2520 BROADWAY DRIVE ST. PAUL 5113
CAPIES, NELSON R. 586 KENT LANE SHOREVIEW MN 55112	CAVANAUGH, MICHAEL 911 22ND AVE.S. APT 277 MPLS MN 55404	COMPUTERLAND 8870 MORGAN CIRCLE DR. BLOOMINGTON MN 55431	EDMAN, MEL KERKER FARM ASSOC. 5985 MAPLEWOOD LN. MINNETONKA MN 55343
GATES, RICHARD 6828 UPPER 5TH OKDALE MN 55119	GEISS JON A. SIOUX HILLS HUTCHINSON MN 55350	GROSSMAN, CRAIG B.	HAMMOND, DARYL 1355 N. FARRINGTON ST. PAUL MN 55117
HANSEN, JOHN L. 38 BIRCHWOOD DR. BURNSVILLE MN 55337	HARRTH, DUANE HILLSIDE CHEMICAL R.R. BUFFALO LAKE MN 55314	HARTZELL CORP. ATTN: DONN BARBER 2516 WABASH AVE. ST. PAUL MN 55114	HENKE, JAMES A. 6788 12TH AVE. S. RICHFIELD MN 55423
HYVARINEN, MATTI 2812 BRANCH ST. DULUTH MN 55812	IBRAHIM, SHUKRY K. 11811 QUEEN CIRCLE BLOOMINGTON MN 55431	JACKSON, PAUL 2811 3RD AVE. S. APT 318 MINNEAPOLIS MN 55404	JOHNSON, STEPHEN K. 6853 WENTWORTH AVE. S. MPLS MN 55419
KILSDONK H.J. (SKIP) 7725 DALEVIEW DR. BROOKLYN PARK MN 55443	KIRKWOOD, TOM M. 284 JANGA DRIVE ST. PAUL MN 55112	LARSON, DAVID 8839 4TH AVE. S. MPLS MN 55420	LEARNED, EDWIN 8150 W. RIVER RD. APT 156 BROOKLYN PARK MN 55444
LINDENMAN, KARL F. BOX 757 281 GREEN ST. WATERTOWN MN 55388	LUND, DONALD L. COMPUTERIZED FARM INF SYS P.O. BOX 382 STILLWATER MN 55082	MADONNA, KEITH 23885 CLOVER LANE SHOREWOOD MN 55331	MELLEN, MONICA 128 W. 32ND ST. MPLS MN 55408
MEYER, R.C. (DICK) 618 13TH ST. NE GRANTANA MN 55060	OLSON, DR. C. KENT 2887 LAKESHORE AVE. MAPLE PLAIN MN 55359	OTIS, GEORGE 9524 BRIAR RD BLOOMINGTON MN 55437	PARKER, GEORGE 4917 RIDGE RD. EDINA MN 55436
PIOTROWSKI, THOMAS 3848 WILDER ST. N ROSEVILLE MN 55113	QUALLE, GENE 3687 BRYANT AVE SOUTH MINNEAPOLIS MN 55409	RHOADES, BLUTCHER 12513 MYSTIC LANE BURNSVILLE MN 55337	RICH, KEN 1929 EMERSON S. MPLS MN 55403
ROTENBERG, R. J. 2256 W. LAKE OF THE ISLES MPLS MN 55485	ROME, RICH IND. SCHOOL DIST. 0194 8678 210 ST. W. LAKEVILLE MN 55044	RYBERG, ARLAN 3920 LESLEE CURVE EXCELSTOR MN 55331	SALITERMAN, STEVE APT 201 886 2ND ST.S.W. ROCHESTER MN 55901
SCAGGS, WILLIAM 17650 IXONIA AVE. W. LAKEVILLE MN 55044	SHULER, W. PHILIP 325 E. 43RD ST. MPLS MN 55409	SLINGSBY, KENNETH ROUTE II WELCH MN 55089	STOCKWELL & ASSOCIATES ATTN: CHARLES STOCKWELL 4916 IDS TOWER MPLS MN 55402

MONITOR CALLS:The following table of monitor calls is curtesy Darrell Aldrich who published it in the April-May edition of Call APPLE. Thank you Val, too.

CALL -2048	F800	PLOT	PLOT A POINT
CALL -2023	F819	HLINE	DRAW A HORIZONTAL LINE
CALL -2008	F828	ULINE	DRAW A VERTICAL LINE
CALL -1998	F832	CLRSCL	CLEAR LOW RES GRAPHICS SCREEN 1
CALL -1977	F847	GBASCALC	CALCULATE GRAPHICS BASE ADDRESS
CALL -1953	F85F	NXTCOL	INCREMENT COLOR BY 3
CALL -1948	F864	SETCOL	ADJUST COLOR BYTE FOR BOTH HALVES EQUAL
CALL -1935	F871	SCRN	READ A POINT OF THE LOW RES GRAPHICS SCREEN 1
CALL -1469	FA43	STEP	PERFORM A SINGLE STEP
CALL -1402	FA86	IRQ	IRQ HANDLER
CALL -1390	FA92	BREAK	BREAK HANDLER
CALL -1321	FA07	REGDSP	DISPLAY USER REG
CALL -1250	FB1E	PREAD	READ PADDLE CONTROLS
CALL -1233	FB2F	INIT	SCREEN INITIALIZATION
CALL -1223	FB39	SETTXT	SET TEXT SCREEN
CALL -1216	FB40	SETGR	SET GRAPHICS SCREEN
CALL -1205	FB48	SETWIND	SET NORMAL WINDOW
CALL -1181	FB63	MUL	MULTIPLY ROUTINE
CALL -1148	FB84	DIU	DIVIDE ROUTINE
CALL -1087	FBC1	BASCALC	CALCULATE TEXT BASE ADDRESS
CALL -1052	FBE4	BELL2	PRODUCE A BELL
CALL -1036	FBF4	ADVANCE	MOVE CURSOR RIGHT
CALL -1027	FBFD	VIDOUT	OUTPUT A REG AS ASCII ON TEXT SCREEN 1
CALL -1008	FC10	BS	MOVE CURSOR LEFT
CALL -998	FC1A	UP	MOVE CURSOR UP
CALL -990	FC22	UTAB	PERFORM A VERTICLE TAB
CALL -980	FC2C	ESC1	PERFORM ESC FUNCTIONS
CALL -958	FC42	CLREOP	CLEAR TO END OF PAGE
CALL -936	FC58	HOME	HOME CURSOR
CALL -926	FC62	CR	PERFORM A CARRIAGE RETURN
CALL -922	FC66	LF	PERFORM A LINE FEED
CALL -912	FC70	SCROLL	SCROLL THE SCREEN ONE LINE
CALL -868	FC9C	CLREOL	CLEAR TO END OF LINE
CALL -856	FC98	WAIT	WAIT LOOP
CALL -756	FD0C	RDKEY	GET KEY VIA USER KEYIN
CALL -741	FD1B	KEYIN	MONITOR KEYIN ROUTINE
CALL -715	FD35	RDCHAR	READ KEY & PER ESC FUNC IF NECESSARY
CALL -670	FD62	CANCEL	PERFORM A LINE CANCEL (\)
CALL -665	FD67	GETLNZ	PERFORM CR AND GET A LINE OF TEXT
CALL -662	FD6A	GETLN	GET A LINE OF TEXT
CALL -550	FDDA	PRBYTE	PRINT A BYTE AS 2 HEX DIGITS
CALL -541	FDE3	PRHEX	PRINT HEX DIGIT
CALL -531	FDED	COUT	OUTPUT CHARACTER VIA USER OUTPUT
CALL -528	FDFO	COUT1	MONITOR CHARACTER OUTPUT
CALL -468	FE2C	MOVE	PERFORM A MEMORY MOVE
CALL -458	FE36	UFY	PERFORM A MEMORY VERIFY
CALL -413	FE5E	LIST	DISASSEMBLE 20 INSTRUCTIONS
CALL -336	FEB0	XBASIC	JUMP TO BASIC
CALL -333	FEB3	BASCONT	CONTINUE BASIC
CALL -318	FEC2	TRACE	PERFORM MONITOR TRACE
CALL -307	FECO	WRITE	WRITE TO TAPE
CALL -259	FEFD	READ	READ FROM TAPE
CALL -211	FF20	PRERR	PRINT 'ERR', THEN BELL
CALL -198	FF3A	BELL	OUTPUT BELL
CALL -167	FF59	RESET	GOES HERE UPON RESET
CALL -151	FF69	MONZ	ENTER MONITOR

NEXT MEETING

WEDS JULY 18th 1979 8:30pm

MINNESOTA FEDERAL SAVINGS & LOAN

31 9th Avenue South, HOPKINS MN

TOPIC:

KEN BRUMBAUGH of M.E.C.C. is our featured speaker.

MINI'APP'LES
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Burnsville
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