

*****MINUTES FROM AUG MEETING*****

The August 11, 1986 meeting was called to order at 7:03 PM by Pres. Jim Green, with 40322 people present. New members were introduced. Welcome to Steve Paxton. Minutes as printed in the previous newsletter were approved. A Treasurer's report was read and approved. Club color monitor purchase has not been made yet, still looking around for a good deal, or an employee discount from Program Chairman Dave Dalton, a touch key professional at Target. Contents of the newsletter were discussed. Hamfest discussed at length. Reports of happenings at the hamfest and opinions were made. The club system was used at the Five Seasons Center. Mike Bonifazi had his MIDI controlled keyboards there, and set-up and used them as demonstrated at a recent meeting. Very impressive! Thank You Mike. Thanks to all those volunteers who helped staff the table during those two days. Mention was made of the short notice for lockup at the Center at 5 PM. Also, our club was left off the fliers handed out at the door under the listing of sponsoring clubs. 2 new keyboards - IBM type - are available, but prices have increased. If you cite the previous advertisements, the old price will be honored until the end of Sept.. For details, see Jim Green. Software is in from the Oklahoma UG. Need help reviewing it all, contact Bruce Winter. Only a small part of it is SSSD, most of it requires DSDD or better. Library costs discussed. Freeware is free from our library, rest is \$1.00 per program. IUG software recently acquired will fall under the \$1.00 per program area, so if you are one of the reviewers, you can sneak a copy of what you have as part of the spoils of the toil for reviewing it all. Discussion of collecting the author's portion of Freeware costs, and then forwarding to the author. This would be done before a program is released from the freeware portion of the library. Not much support for this due to the fact if a person doesn't like or use the software, a refund would be involved. It was felt that the concept of freeware was to try it first, and pay if you like it and then use it. All members were strongly urged to fire off a check to the freeware authors for the programs you feel useful in your possession. Addendum to the software library is available, see Jim Green.

Horse trading: Dave Reinhart had TE-II for \$10, many games \$2 to \$5 each, Cor Comp sidecar dual RS-232 and parallel interface, with PS, \$90, Volksmodem and cable, \$50, or offer anything; Dave Dalton had a disk container \$7, carbonless copy printer paper \$? per roll, external stand alone SSSD Percom Data disk drive with internal controller and power supply, \$210 or offer; Jerry Cerny has a spare silver/black console \$35; Ed Edwards has two silver/black consoles, one complete \$35, one console only, no accessories, \$25.

The program was on TI writer type loaders, with BAWriter and Funlwriter compared. Printer discussions followed, with the differences between how printers handle the CR/LF problem, and how to use PIO.CR and PIO.LF in programs. New Horizons RAM disk assembled/kit was discussed. A good price on a bare board can be had if we can get an order of 5 or more together. This is a board that fits into the PE box and acts exactly; like a disk drive, with continuous battery backup. See Jerry Canady if interested. Finished cost should be about \$45 less than the assembled version if you can handle putting together a kit and can find your own parts.

Door prize was won by Bill Gonda, and he chose 4A Talk. Second prize was won by his wife Phyllis, and she receives her choice of 4 programs from the club library, including media.

A disk labeling and printing program was demonstrated by Ed Edwards, and many examples of what the program can do were passed around the room.

A cassette port modem connection and software are in the works, see Dave Dalton for details. It is rumored that an autodial feature is in process, with a total cost of about \$12.

Meeting adjourned 8:44 PM. Submitted by Gary D. Bishop, Secretary.

FOR SALE/WANTED:

PE Box, Drive, Controller card and cables; \$175. 2 TI Writers (New): \$20 ea.. Household Budget Management, TI Trek; \$5 ea..
William Gonda (319) 373-1945.

Percom standalone Controller and Tandon SSSD drive; \$210. Atarisoft Defender; \$5. Dave Dalton (319) 377-1715.

For Sale: Early Learning Fun (M) \$5, Adventure module with Pirates Adventure (C) \$8. Bruce Winter.

BUY/SELL/TRADE IDEA:

Over the past couple of years I have accumulated many items which are no longer any real use to me. So I have come up with a list of prices for these items. I realized that there are probably lots of you who have things in your possession that you'd like to get off your hands, but you never got around to making a price list. Well here's your chance!

I'll agree to trade any of my items for those of yours which strike my interest. No matter the value! The person with the lower priced item will pay the other the difference (figured by agreeing on the value of your product).

So here are two lists. One with the prices of the products I'm selling and one of some of the things I'm interested in.

Wanted: any Extended Basic, Speech Synthesizer, Logo II, Action & Adventure games, copy & debugger programs, Cartridge Expander, Editor Assembler, MBX system, Super Sketch, More.

Sell/Trade: Tombstone City, Super Demon Attack, Car Wars/(\$2 ea.); Volksmodem(with cable)/\$50, Terminal Emulator II/\$10, Cor Comp expansion box(2 RS232,1 parallel)/\$90, or best offer; Emerson data recorder/\$8; cassette cable, Pirates Adventure, Savage Island I&II/\$1.50 ea; Disk storage case (holds 35)/\$2.50; Congo Bongo, Defender/\$5 ea; Teach yourself Extended Basic/\$2; Small cooling fan/\$1; Sylvania black & white tv(great picture)/\$50.

-Dave Reinhart (319)377-0661.

If you wish to have extension cables made up please contact Jerry Canady at 377-9382 or 395-2494 or one of the officers. State the length you need and I will try to have it at the meeting.

For Sale: Early Learning Fun (M) \$5, Adventure module with Pirates Adventure (C) \$8. Bruce Winter.

Wanted: Unwanted/broken modules and misc hardware for hardware hacking use, also Zero Zap, Statistics. Jerry Canady.

For Sale: Silver console/speech/recorder and cable/joy sticks; Ext. Basic, TEII, Blasto Tombstone City, Car Wars, Alpiner, Chisholm Trail, The Attack, Parsec, Football, Household Budget Management, 41 programs on tape, 12 blank tapes (22 total), 25 Issues of 99er magazine. Triton spring catalog price \$300+, all for \$125. Richard C. Scheit, Box 277, West Branch, Iowa 52358, (319) 643-2525.

THE ADVENTURE STORE:

After I bought Doom of Mondular on disk from Tenex I received a catalog from the company that produces it, Symbiotech Inc..

They don't offer quite as much as Tenex but their prices are much better. For example, they offer Doom of Mondular, which I purchased for \$16.95, for \$7.95. They also carry hardware and literature for the TI, some of which when their stock runs out, that item will be terminated from their catalog.

I'd also like to add that their service is also good. I ordered a disk from them and it took only four days after sending in the order to receive it.

So I'd suggest that you get on their mailing list quickly. Write to; Symbiotech Inc., PO Box 320, Roscoe, Ill 61073.

-Dave Reinhart.

editors note; we have all had experiences about price and service so please relate them. Thanks Dave!

TI CALCULATORS:

If you happen to have a TI calculator that has developed switch bounce (stutters on one stroke) thus adding \$1000000000 which is beyond your budget. TI may help. Call 1-800-TI-CARES and explain your problem and model they will quote a replacement cost. For obsolete models the price was \$5.00 +s/h&tax. This may not be worthwhile for cheap models. For non-obsolete versions I believe the cost is postage and insurance to return the defective calculator after your replacement is received. Very reasonable! If you have a question give them a call. This is the same number to use if you need a TI Writer manual, mine arrived, the manual was provided as a service, postage and handling is \$3.00.

-editor.

NEWSLETTER:

I will be attempting to provide some different styles of print on at least a portion of the newsletter during the coming months (assuming more time is available). If you see a style that pleases or dismays you, Please let me know. I assume there is a reason the President keeps noting multiple collumn programs and print formats with my name? Didn't think I noticed did you Jim!

BOOKS:

Several books have received reviews or were noted in various newsletters.

One is a book entitled "Multiplan Made Easy" by Walter A. Ettl, it is written for IBM DOS but was noted as an excellent tutorial for the TI implementation of Multiplan. I spotted it at Waldens in Westdale for \$14.95.

Apparently Chiltons (the auto manual folks) have one entitled "Financial Analysis on TI computers. Chilton Book Co., Radnor,PA. 1-800-345-1214

TI 99-4/A wiring diagrams from Sams and Co., Have you seen it Leroy?

TIPS FROM THE TIGERCUB

#36

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

Distributed by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. May be reprinted by non-profit users groups, with credit to Tigercub Software.

Over 130 original programs in Basic and Extended Basic, available on cassette or disk, only \$3.00 each plus \$1.50 per order for PPM. Entertainment, education, programmer's utilities. Descriptive catalog \$1.00, deductible from your first order.

Tips from The Tigercub, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, just \$15 postpaid.

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#
Tips from the Tigercub
Vol. 3 is now ready.
Another 62 programs,
routines, tips, tricks.
Also \$15 postpaid. Any
two Tips disks \$27 or
all 3 for \$35 postpaid.
#

Nuts & Bolts (No. 1), a full disk of 100 Extended Basic utility subprograms in merge format, ready to merge into your own programs. Plus the Tigercub Menuloader, a tutorial on using subprograms, and 5 pages of documentation

with an example of the use of each subprogram. All for just \$19.95 postpaid.

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Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

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For descriptions of these send a dollar for my catalog!

Some old business to take care of -

Tom Wible (? - handwritten signature), in the MANNERS NEWSLETTER for April, points out that I am all wrong in my comments about updating a FIXED SEQUENTIAL file.

There is no such thing as a fixed sequential or fixed relative file, only fixed files accessed sequentially or randomly (relative). Sequential and relative are access modes, not file attributes. There is no

reason to open a fixed file in anything other than RELATIVE mode, because if you do not specify the REC clause in your INPUT or PRINT, the computer defaults to sequential processing.

In one paragraph, that gentleman told me something about files I had't learned from the TI manuals and from the 2000+ newsletters on my shelf. File handling is apparently easy to understand for those who have had formal computer training, but it is a frustrating mystery to those of us who try to learn by hacking it. Won't somebody please write a series of articles, somewhere, in plain, non-computerese English?

And here is the last word on printing lines of more than 80 characters out of the TI-Writer Formatter, by W. Stewart Ash in a MANNERS newsletter of May-June 1986. It is only necessary to use the .FI command, and to set the right margin to the length you want, for example .FI;RM 120 for lines of 120 characters; and then use .TL or CTRL U commands to select a type font which will fit that many characters on a line (136 or 132 in condensed, depending on your printer; 96 in elite).

Here's a new way to make music, for you Basic-only users, music programmers and country music fans.

100 CALL CLEAR
110 PRINT " WILDWOOD FL
DWER": : " on the hammered
dulcimer": : : : : : "
by Jim Peterson"

120 DIM S(26)
130 F=262
140 FOR N=1 TO 25
150 S(N)=INT(F#1.#59463#94^(
N-1))
160 NEXT N
170 READ N

180 C=S(N)
190 D=S(N)
200 CALL SOUND(-350,S(N),0)
210 RESTORE 350
220 FOR J=1 TO 63
230 GOSUB 260
240 NEXT J
250 GOTO 200
260 READ N
270 CALL SOUND(-350,S(N),0)
280 X=1^100
290 CALL SOUND(-350,S(N),0,C
,9)
300 X=1^100
310 CALL SOUND(-350,S(N),0,C
,9,D,19)
320 D=C
330 C=S(N)
340 RETURN
350 DATA 5,6,8,8,10,13,5,5,6
,5,3,3,5,3,1,1
360 DATA 5,6,8,8,10,13,5,5,6
,5,3,3,5,3,1,1
370 DATA 8,13,17,17,17,15,13
,13,8,8,10,10,13,10,8,8
380 DATA 1,1,1,3,5,5,8,5,3,3
,5,3,1,1,1

Lines 120-160 set up a scale of two octaves, beginning with the frequency in line 130 - to change the key, just change that frequency. Lines 170-190 set up the initial values, line 200 prevents a pause while data is being restored. Then the routine reads the data and plays the music.

Note the dummy calculation in lines 280 and 300, which does nothing but create a brief pause while the value of X is computed. This is a good method for a delay because it can be adjusted so exactly by changing the exponent, but use a value of 1 to avoid a numeric overflow.

To write your own music by this method, just list the notes of a 2-octave scale from your starting frequency C C# D E F F# G - etc. and number them 1 to 25.

Then, list the notes of your song by their number in the DATA statements. For a longer note, list it twice or more. Change the TO


```

routines which beat everyone
else - and then sent me two
more which beat his first
ones! His PEEK version -
100 DIM A(255),C(255):: FOR
K=255 TO 1 STEP -1 :: RANDOM
IZE :: CALL PEEK(-31800,B)::
J=INT(B#K/256+1):: C(K)=MAX
(J,A(J)):: A(J)=MAX(K,A(K))::
: NEXT K

```

```

And see if you can
unravel the logic of this
truly elegant bit of code!
100 DIM A(255):: RANDOMIZE :
: FOR K=255 TO 1 STEP -1 ::
J=INT(RND#K+1):: T=MAX(J,A(J)
):: A(J)=MAX(K,A(K)):: A(K)
=T :: NEXT K

```

So, on to new business -

ANNOUNCING

The TI-99/4A TRAVELER
a magazine-on-disk!

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(SS/SD or DS/DD)!

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Barry A. Traver, Editor
835 Green Valley Drive,
Philadelphia PA 19128
phone (215) 483-1379

To give you an idea of
Barry Traver's knowledge of
our computer, try this one.
I've figured out the why,
but I'll have to ask Barry
to explain the why of the
why!

```

100 ! LINPUT PUZZLE/BUG by
B.A. Traver
110 ! QUESTIONS? Send SASE
to Barry Traver
120 ! 552 Seville St.
Phila. PA 19128
130 CALL CLEAR :: PRINT "LIN
PUT PUZZLE/BUG": "BY BARRY TR
AVER"
140 PRINT "Can you figure ou
t why your computer will not
obey?"
150 PRINT "Why won't it stop

```

```

when you tell it to?": :
160 LINPUT "Want me to stop?
(YES/NO)":W$
170 IF W$="YES" THEN STOP EL
SE 160
180 END

```

It seems that many of
you still haven't heard of
Super 99 Monthly, published
monthly (and on time!) by
Bytemaster Computer
Services, 171 Mustang
Street, Sulphur, LA 70663,
for \$12 per year. The May
issue contained a Word
Processor Dump, to dump a
graphics/text screen into a
D/V80 file which can be
printed out of the TI-Writer
Formatter - that program
alone is worth the annual
subscription price!

I've said it before,
there is more than one way
to skin that poor cat. This
is my routine to alternate
between the #1 and #2
joysticks.

```

Z=Z+1+(Z=2)#2 :: CALL (JOYST
(Z,X,Y)
Compact, isn't it? Now, the  
Reading-Berks 99ers publish  
a newsletter called "A Byte  
of Info", which is hardly  
more than a byte long, but  
the August byte was a  
mouthful! Check this -

```

```

100 Z=2
110 Z=1/Z#2 :: CALL JOYST(Z,
X,Y)
And this! Elegant!
Z=Z#0 :: CALL JOYST(Z+2,X,Y)

```

Here is another of
those programs that write a
program. This one will read
a screen of graphics and/or
text and convert it into a
RUNable program of DISPLAY
AT statements which will
recreate the screen.

First, we need a file
of the hex codes of all the
normal characters, to check
against to see if any have
been redefined. Rather than
key in all 95 of the
16-digit codes, let's write

```

a program to write a program
of them -
110 OPEN #1:"DSK1.HEXCODES",
VARIABLE 163 :: LN=30000 ::
FOR D=32 TO 124 STEP 8 :: FO
R CH=D TO D+7 :: CALL CHARPA
T(CH,CH0)
120 D$=D#&CHR$(179)&CHR$(200
)&CHR$(16)&CH0 :: NEXT CH
130 PRINT #1:CHR$(INT(LN/256
))&CHR$(LN-256#INT(LN/256))&
CHR$(147)&SE6$(D,2,LEN(D$))
&CHR$(0):: LN=LN+1 :: D$=""
:: NEXT D

```

```

140 PRINT #1:CHR$(255)&CHR$(
255):: CLOSE #1 :: END

```

RUN that to create a
MERGE format program of DATA
statements. Now, key in the
GRAFWRITER program -

```

31000 SUB GRAFWRITER
31001 OPEN #1:"DSK1.P6",OUTP
UT,DISPLAY ,VARIABLE 163
31002 RESTORE 30000 :: L=300
00 :: GOSUB 31018
31003 FOR CH=32 TO 127 :: CA
LL CHARPAT(CH,CH0):: READ A$
:: IF CH#A$ THEN 31004 ELS
E GOSUB 31019 :: GOSUB 31018
31004 NEXT CH
31005 FOR CH=128 TO 143 :: C
ALL CHARPAT(CH,CH0):: IF CH#
=RPT$(0,16) THEN 31006 ELSE
GOSUB 31019 :: GOSUB 31018
31006 NEXT CH
31007 PRINT #1:L$&CHR$(157)&
CHR$(200)&CHR$(5)&"CLEAR"&CH
R$(0):: GOSUB 31018
31008 FOR R=1 TO 24
31009 M$=L$&CHR$(162)&CHR$(2
40)&CHR$(183)&CHR$(200)&CHR$(
LEN(STR$(R)))&STR$(R)&CHR$(
179)
31010 FOR C=3 TO 30 :: CALL
GCHAR(R,C,6):: CALL HCHAR(R,
C,42):: IF F#0 AND 6=32 THEN
31013
31011 F=1 :: IF FF=1 THEN 31
012 ELSE CC=C-2 :: FF=1
31012 A$=A$&CHR$(6)
31013 NEXT C :: IF CC#0 THEN
CC=1 :: A$=""
31014 PRINT #1:M$&CHR$(200)&
CHR$(LEN(STR$(CC)))&STR$(CC)
&CHR$(182)&CHR$(181)&CHR$(19
9)&CHR$(LEN(A$))&A$&CHR$(0)
31015 L=L+10 :: F,FF,CC=0 ::
M$,A$="" :: GOSUB 31018 ::
NEXT R
31016 PRINT #1:L$&CHR$(134)&

```

```

CHR$(201)&L$&CHR$(0):: GOSUB
31018
31017 PRINT #1:CHR$(255)&CHR
$(255):: CLOSE #1 :: SUBEXIT
31018 L1=INT(L/256):: L2=L-2
56#L1 :: L$=CHR$(L1)&CHR$(L2
):: L=L+10 :: RETURN
31019 PRINT #1:L$&CHR$(157)&
CHR$(200)&CHR$(4)&"CHAR"&CHR
$(183)&CHR$(200)&CHR$(LEN(STR
$(CH)))&STR$(CH)&CHR$(179)&
CHR$(199)&CHR$(16)&CHR$(182)
&CHR$(0):: RETURN
31020 SUBEND

```

Next, Enter MERGE DSK1.
HEXCODES to merge in those
DATA statements. Then save
the program by SAVE
DSK1.GRAFWRITER,MERGE

Now, load any program
which has a screen you would
like to copy. Run the
program to the point where
the screen display is ready,
then break it with FCTN 4.
Put in a temporary line
going to itself, such as
1001 GOTO 1001, and run the
program again to be sure you
found the right place. Then
replace that temporary line
with CALL GRAFWRITER :: STOP

Put in the disk
containing the Grafwriter
program and enter MERGE
DSK1.GRAFWRITER. Then RUN
the program. When it stops,
type NEW, then MERGE DSK1.P6
and then RUN!

Now for a Tigercub chall-
enge that I can't answer!
Can one of you assembly
programmers tell me how to
PEEK out of Extended Basic
for screen color and charac-
ter set colors, so I can
reproduce them in that
program?

And, thanks to Jerry Glaze
in the Southern Nevada UG
newsletter, by way of the
Tidewater newsletter - you
don't need SIZE with DISPLAY
AT - just a semicolon!
100 DISPLAY AT(12,1):RPT\$(#
",28):: DISPLAY AT(12,1):"SE
E?";

MEMORY FULL! - Jim Peterson

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860 WESTVIEW DR
MARION IA 52302