

TRI CITIES 99er COMPUTER GROUP

NOVEMBER 1984 NEWSLETTER

WELCOME!!

We have no new members to report this month. However, our Open House is coming up on December 2, and we should all turn out to welcome prospective members.

ACTING PRESIDENTS MESSAGE

A nominating committee for prospective club officers will be in place by the December 2, Open House. Please be thinking about who you would like to see nominated to run the club for the coming year.

Also, a suggestion box will be available for submitting ideas on future meeting agenda that you would like to see or hear about. The suggestions can be anonymous if you wish. (No "drop dead" suggestions please). I would also encourage you to bring your Computers, other hardware, favorite software, etc., to the Open House. See you there ! DON.

EDITORS NOTES

As Newsletter Editor, I receive a good deal of mailings, most of which are made available to club members at each meeting. Lately these materials have taken on a very optimistic note for the TI-99/4A; Third Party programmers are beginning to be competitive in price, quality, and function; new hardware is being made available that offers a choice in peripherals; 99'er User Groups are getting stronger and are taking a more active roll in assuring the continuity of the 99/4A. Yes I think there is "good-news" ahead. How can our Club share in the good-news? Well I sure like the Tri-City area, however, when it comes to shopping around for new hardware and software for the TI, there just isn't any local commercial support. The nearest city were you can see demonstrations of new stuff is Seattle or Portland.

The only way we can get stuff for demonstration is for some member to take a flyer, buy it and hope it performs as advertised, and agree to demonstrate it for the Club. While I agree this works, it's very slow, risky, and people don't jump at the chance on a \$50 flyer.

What's the answer? Glad you asked! I think we need a strong Program Committee that will contact hardware and software suppliers and make arrangements for loans for Club demonstrations. For example, I contacted Larry Hughes who is owner of QUALITY 99 SOFTWARE, and made an arrangement to obtain a new software package called "Draw 'N Plot" (See details elsewhere in this letter) for Club demonstration. So! you will be able to see one of the new graphics packages if..(1) the package arrives, (2) I have time to learn how to use it and (3) you come to the Open House. See you there! MEL

WHO'S ON FORTH

FORTH is a computer language one step above (or is it below?) Assembly language. It is fast (within about a factor of 2 of Assembly), all major home computers can use Forth and, have nearly the same "words" (Instruction, commands, subroutines, etc.) In fact one 99'er User Group reported that a program written for the IBM Forth version was run on the TI-99-4A with very minor changes. If you want to learn a computer language that is applicable to most computers, Forth is for you. Like all good things "It an't free". Actually it is free since the Club Has a copy of TI-Forth, with manual, that you can copy for your very own. However, learning to use Forth takes a lot of time. Needless to say your Editor now has the Forth Bug (In the very early novice stage, so it may be catching). Come to the Open-House and see a very elementary demonstration.

MUSIC - -

The following BASIC program comes from the Summit Users Group of Ohio via MICROpendium. It was originally called Mini Organ and was created by J. Canning. Just type; RUN; & push keys.

```
100 OPTION BASE 0
110 DIM NOTE(20)
120 FOR A=0 TO 20
130 READ NOTE(A)
140 NEXT A
150 DATA 40000,220,247,262,
294,330,349,392,440,494,523
,587,659,698,784,880,988,10
47,1175,1319,1397
160 CALL KEY(1,K1,S)
170 CALL KEY(2,K2,S)
180 K1=K1+1
190 K2=K2+1
200 CALL SOUND(-1000,NOTE(K
1),0,NOTE(K2),0)
210 GOTO 160
```

LITTLE GEMS

The following "gems" come from the Edmonton 99'er User group of Canada. If you have ever tried to produce a solid horizontal line but only got broken ones, try this in your program:

```
CALL CHAR(93,00FF)
```

This changes the underline character (FCTN U) to be a solid line when more than one character is typed. To change the position of the line vertically, add or remove pairs of zeros; to make the line heavier, add pairs of F's. (See your Beginner's Basic Manual, Chapter 5 for other ideas ED).

This item comes from the Central Iowa 99'ers User Group. A new TI publication called SUPER 99 MONTHLY contains 12 pages published monthly at a cost of \$12. For further information, write to:

Bytemaster Computer Services
171 Mustang Street
Sulphur, LA 70663

TELECOMM NEWS

For those members that have modems or are considering getting such equipment, there is also good news for you.

What you need to get into this field is a modem, (Suggest you consider the Volksmodem by Anchor), An RS232 card with the Expansion Box or a stand alone unit, a TE II (Terminal Emulator Module) or a similar card like the new TE-1200, and a telephone.

The December issue of COMPUTER SHOPPER contains over 25 listings of TIBBS (TI Bulletin Board Systems) that can be called free for the long distance charge. Many of these Boards have "Download" capability (meaning that you can copy programs directly from the Board). The following is a listing of Western area Boards that I downloaded from the San Francisco TIBBS:

San Fran CA 24 hrs	415-355-3092
Houston TX HUG TIBBS	713-699-2073
Fontana CA Peter Covert	714-350-8583
Redwood City Bay Cities	415-364-8617
Oakland CA	415-658-3159
San Diego CA Irish Input	619-276-3173
Gresham OR Mike Werstlein	503-661-0408

Most of these TIBBS operate 24 hours, but it's better to call at night and besides, the rates are better.

QUALITY 99 SOFTWARE

Draw 'N Plot

Create and print drawings, graphs, designs, and illustrations. Draw any image on the screen with pixel accuracy and Assembly Language speed! The only limitation is your imagination! Simple enough for children - powerful enough for experts! Uses bit-map mode. Save the image to disk. Mix text and graphics, set background color and line color, draw circles, FILL, ERASE. Print image on an Epson or Gemini 10X compatible printer. Menu driven. Also, plot your data and equations, quickly and easily, on the screen or printer, with 8 plotting commands.

Req: Disk, 32K, Ex. BASIC,

joystick.....only \$39.95!



TIPS FROM
THE
TIGERCUB
No. 14

Distributed by Tigercub Software to users groups for promotional purposes and in exchange for their newsletters.

Tigercub Software, 156 Collingwood Ave., Columbus OHIO 43213, has over 130 original programs available at only \$3.00 each. My catalog is available for \$1.00 which may be deducted from your first order.

It has come to my attention that the members of some users groups have never heard of my kitchen-table enterprise, although their group has been receiving my newsletter for several months. It appears that many users groups have no method of making available to their members the information from newsletters which they receive in exchange.

My software business is a failure, and my Tips are a complete failure as a promotional effort. During the month of July I received a total of 31 requests for my catalog, of which only 9 were the result of newsletter publicity. I do not want to discontinue these Tips, because of the many interesting newsletters that I receive in exchange. However, I can no longer afford to distribute them to those groups which never give any indication that my Tips are reaching their members.

You may have observed that the Tigercub now possesses a Gemini 10X printer. The only fault I could find with it was that it wouldn't print Chinese, so I remedied that defect with this little program.

```
100 !THIS ROUTINE INITIALIZE
S THE GEMINI 10X TO PRINT 'C
HINESE' UNTIL IT IS TURNED O
FF - by Jim Peterson
110 OPEN #1:"PI0"
```

```
120 PRINT #1:CHR$(27);CHR$(4
2);CHR$(0);: CALL CLEAR
130 FOR CH=65 TO 90 :: PRINT
"WORKING..." :: FOR J=1 TO
7 :: FOR L=1 TO 9 :: RANDO
MI
ZE :: IF (INT(3*RN0+1)<3)+(
L>1)*(D(J,L-1)>0))THEN 150
140 D(J,L),D(J,10-L)=(1+ABS(
J>1))^J
150 NEXT L
160 NEXT J
170 FOR L=1 TO 9 :: FOR J=1
TO 7 :: X(L)=X(L)+D(J,L):: N
EXT J :: NEXT L
180 PRINT #1:CHR$(27);CHR$(4
2);CHR$(1);CHR$(CH);CHR$(1);
CHR$(X(1));CHR$(X(2));CHR$(X
(3));CHR$(X(4));CHR$(X(5));C
HR$(X(6));CHR$(X(7));CHR$(X(
8));CHR$(X(9))
190 FOR J=1 TO 7 :: FOR L=1
TO 9 :: D(J,L)=0 :: NEXT L :
NEXT J
200 FOR L=1 TO 9 :: X(L)=0 :
NEXT L :: NEXT CH
210 PRINT #1:CHR$(27);CHR$(13
6);CHR$(1);
220 PRINT #1:CHR$(27);CHR$(18
7);CHR$(1)
230 PRINT #1:CHR$(27);CHR$(17
1)
240 STOP
```

Now, without turning off the printer, type LIST "PI0" or run any program that puts out text to the printer. It won't fool a Chinaman but it might impress your friends.

Here's a little something for you who own the Terminal Emulator II and the Speech Synthesizer. Maybe our Congressmen could use it to help them discuss the national debt.

```
100 CALL CLEAR
110 PRINT TAB(7);"NUMBER SPE
AKER": : "by Jim Peterson":
" of Tigercub Software"
: : :
120 PRINT " This program wil
l print any": " number of les
s than 67": "digits in number
s and in"
130 PRINT "words, and will s
peak the": "words.": : : " R
equires Terminal Emulator": "
II and Speech Synthesizer.":
: :
140 CALL CHAR(39,"0000000000
301020")
```

```
150 OPEN #1:"SPEECH".OUTPUT
160 DIM HIGH$(21),NN$(23)
170 DATA ONE,TWO,THREE,FOUR,
FIVE,SIX,SEVEN,EIGHT,NINE
180 DATA TEN,ELEVEN,TWELVE,T
HIRTEEN,FOURTEEN,FIFTEEN,SIX
TEEN,SEVENTEEN,EIGHTEEN,NINE
TEEN
190 DATA TWENTY,THIRTY,FORTY
,FIFTY,SIXTY,SEVENTY,EIGHTY,
NINETY
200 DATA THOUSAND,MILLION,BI
LLION,TRILLION,QUADRILLION,Q
UINTILLION,SEXTILLION,SEPTIL
LION,OCTILLION,NONILLION
210 DATA DECILLION,UNDECILLI
ON,DUODECILLION,TRIDECILLION
,QUATTORDECILLION,QUINDECIL
LION,SEXTEDECILLION
220 DATA SEPTENDECILLION,OCT
ODECILLION,NOVENDECILLION,VI
GINTILLION
230 FOR J=1 TO 9
240 READ ONE$(J)
250 NEXT J
260 FOR J=1 TO 10
270 READ TEEN$(J)
280 NEXT J
290 FOR J=1 TO 8
300 READ TEN$(J)
310 NEXT J
320 FOR J=1 TO 21
330 READ HIGH$(J)
340 NEXT J
350 PRINT : : :
360 PRINT #1:"NUMBER"
370 INPUT "NUMBER? ":N$
380 L=LEN(N$)
390 FOR J=1 TO L
400 IF POS("0123456789",SEG$
(N$,J,1),1)=0 THEN 360
410 NEXT J
420 IF (VAL(N$)<1)+(VAL(N$)<
>INT(VAL(N$)))THEN 360
430 IF L<67 THEN 470
440 PRINT "HEY! I CAN ONLY C
OUNT TO A": "VIGINTILLION!":
:
450 PRINT #1:"HAY I CAN ONLY
COUNT TO A VIGINTILLION"
460 GOTO 360
470 IF VAL(N$)>0 THEN 510
480 PRINT : : "ZERO": :
490 PRINT #1:"ZERO"
500 GOTO 360
510 IF L/3=INT(L/3)THEN 540
520 N$="0"NN$
530 GOTO 380
540 X=L/3
550 FOR J=1 TO L STEP 3
560 JJ=JJ+1
570 NN$(JJ)=SEG$(N$,J,3)
```

```

580 IF J>1 THEN 610
590 P$=STR$(VAL(NN$(JJ)))
600 GOTO 620
610 P$=P$&" "&NN$(JJ)
620 NEXT J
630 PRINT : : P$ : :
640 FOR J=1 TO X
650 GOSUB 670
660 GOTO 1150
670 IF VAL(NN$(J))<>0 THEN 7
10
680 A$=""
690 FLAG=1
700 GOTO 1140
710 FLAG=0
720 H=VAL(SEG$(NN$(J),1,1))
730 T=VAL(SEG$(NN$(J),2,2))
740 TT=VAL(SEG$(NN$(J),2,1))
-1
750 VV=VAL(SEG$(NN$(J),3,1))
760 IF T=0 THEN 1000
770 IF T>9 THEN 810
780 A$=ONE$(T)
790 SP$=A$
800 GOTO 1000
810 IF T>19 THEN 880
820 A$=TEENS$(T-9)
830 IF T<>19 THEN 860
840 SP$="NINE TEEN"
850 GOTO 1000
860 SP$=A$
870 GOTO 1000
880 IF VV<>0 THEN 950
890 A$=TEN$(TT)
900 IF TT<>8 THEN 930
910 SP$="NINE TEE"
920 GOTO 1000
930 SP$=A$
940 GOTO 1000
950 A$=TEN$(TT)&" "&ONE$(VV)
960 IF TT<>8 THEN 990
970 SP$="NINE TEE"&ONE$(VV)
980 GOTO 1000
990 SP$=A$
1000 IF H=0 THEN 1080
1010 IF T=0 THEN 1050
1020 A$=ONE$(H)&" HUNDRED &
"&A$
1030 SP$=ONE$(H)&" HUNDRED &
"&SP$
1040 GOTO 1140
1050 A$=ONE$(H)&" HUNDRED"
1060 SP$=A$
1070 GOTO 1140
1080 IF (J<X)+(T=0)+(VAL(N$)
<100) THEN 1140
1090 A$=" & "&A$
1100 IF (TT<>8)*(T<>19) THEN
1130
1110 SP$=" & "&SP$
1120 GOTO 1140
1130 SP$=A$

```

```

1140 RETURN
1150 PRINT A$
1160 IF FLAG=1 THEN 1200
1170 PRINT #1:SP$
1180 PRINT HIGH$(X-J)
1190 PRINT #1:HIGH$(X-J)
1200 GOSUB 670
1210 NEXT J
1220 PRINT B$
1230 A$=""
1240 JJ=0
1250 B$=""
1260 P$=""
1270 FOR D=1 TO 500
1280 NEXT D
1290 GOTO 350

```

I hope you noticed that all those zeros were neatly slashed so that you wouldn't mistake them for 0's. Here's a little routine that will set up your printer to slash the 0's until you turn it off.

```

100 OPEN #1:"PIO"
110 PRINT #1:CHR$(27);CHR$(4
2);CHR$(0);
120 PRINT #1:CHR$(27);CHR$(4
2);CHR$(1);CHR$(48);CHR$(0);
CHR$(92);CHR$(34);CHR$(81);C
HR$(8);CHR$(69);CHR$(2);CHR$
(65);CHR$(34);CHR$(28)
130 PRINT #1:CHR$(27);CHR$(3
6);CHR$(1)
140 STOP

```

And, somebody might get mad if I don't include a little music -

```

100 REM - BELL MUSIC program
med by Jim Peterson
110 CALL CLEAR :: CALL SCREE
N(5):: RANDOMIZE
120 FOR CH=96 TO 136 STEP 4
:: FOR L=1 TO 4 :: X$=SEG$("
0018243C425A667EB199A5BDC3DB
E7FF",INT(16*RND+1)*2-1,2)::
B$=B$&X$ :: C$=X$&C$ :: NEXT
T L
130 D$=B$&C$ :: Z$=RPT$(D$,4
)
140 CALL CHAR(CH,Z$):: B$,C$
,Z$=NUL$ :: CALL MAGNIFY(4):
: CALL SPRITE(#CH/4-23,CH,IN
T(15*RND+2),255,255):: NEXT
CH
142 FOR J=1 TO 10 STEP 2 ::
X=9*RND-9*RND :: Y=9*RND-9*R
ND :: CALL MOTION(#J,X,Y,#J+
1,X,Y):: NEXT J
150 FOR J=1 TO 20

```

```

155 CALL COLOR(#INT(10*RND+1
),INT(15*RND+2))
160 FOR V=0 TO 16 STEP 4
170 ON J GOSUB 250,270,290,3
10,330,350,370,390,410,430,4
10,390,370,350,330,310,290,2
70,250,270,290,310,330,350
180 NEXT V
190 READ X
200 FOR D=1 TO X*5
210 NEXT D
220 NEXT J
230 RESTORE
240 GOTO 150
250 CALL SOUND(-999,131,V,52
3,V,131/2,30,-4,V)
260 RETURN
270 CALL SOUND(-999,165,V,16
7,V)
280 RETURN
290 CALL SOUND(-999,196,V,19
9,V)
300 RETURN
310 CALL SOUND(-999,262,V,26
5,V)
320 RETURN
330 CALL SOUND(-999,330,V,33
3,V)
340 RETURN
350 CALL SOUND(-999,392,V,39
4,V)
360 RETURN
370 CALL SOUND(-999,523,V,39
2,V,330,V)
380 RETURN
390 CALL SOUND(-999,659,V,66
6,V)
400 RETURN
410 CALL SOUND(-999,784,V,79
2,V)
420 RETURN
430 CALL SOUND(-999,1047,V,1
057,V)
440 RETURN
450 DATA 16,16,2,16,8,16,4,4
,16,2,16,4,16,8,8,16,2,2,16,
4,2,8,16

```

Just about MEMORY FULL, so
Happy hackin'

Jim Peterson

SOFTWARE SHEFLIST
99'ers Computer Club

Cassettes:

Arithmetic Teacher
Exchange Series 1-10 (some XB)
Gamespak 1-4 (4 in XB)
* King of the Castle (Assembly)
Outer Spelling
Teach Yourself Basic
Trails West/Tic-Tac-Toe/Loan Amortization
SAMS 51 Fun & Educational Programs

Disks:

Education
Gamespak 1-4 (4 in XB)
Home Computer Magazine Games
* King of the Castle (Assembly)
Teach Yourself Extended Basic
TI Public Programs III
SAMS 51 Fun & Educational Programs
TI Writer & Multiplan Enhancements
Utilities (some XB)
10 Basic Games
* Quick Copyer (XB)

Magazines: (Copies of Tables of Contents kept in separate book)

99'er/Home Computer (Nov. '82-Nov. '83)
Enthusiast 99 Magazines (May-Nov. '83)
Computer Shopper (Feb. '84 -)
BYTE (1982)
Micropendium (April '84 -)
Enter (March '84 -)

Other:

Atlanta 99'ers Software Library Listing
Mini Memory Module Manual
* TI FORTH Manual (includes disk, source code)
TI 99/4A Schematics

XB = Extended Basic

* Requires special equipment

NOTE: Members may borrow from the library on the condition each item is returned to the library by the next meeting. Abuse of this rule will result in suspension of borrowing privileges. Replacement costs for lost or damaged items will be the responsibility of the borrower.

NEXT MEETING

As you already know by this time, the next meeting will be our TI-99/4A User Group Open House. This event will start at 1 PM on December 2, 1984 (That's a Sunday in case you didn't know). It's at our regular location at Apollo Hall on Apollo Lane in Richland. In addition to special demonstrations, fun, and games, there will be TI hardware and software for sale. Such as:

Hardware

- Speech Synthesizer
- Remote Controllers
- RS232 Card (Fits in Expansion Box)
- TI-Printer (Epson MX-80)

Software-Business

- Personal Rec Keep
- Personal Real Estate
- Tax-Inv Record Keep
- Extended Basic
- Data Base 300
- Compactor Plus
- Multiplan

Software-Games

- Tunnels of Doom
- Arter Package:
 - Froggy, Krazy Funhouse, Kong, etc.
- Tomestone City
- Parsec
- Donkey Kong
- Yahtzee
- Othello
- Munchman
- TI Invaders
- Alpiner
- Football
- The Attact
- Blasto

LIBRARY NEWS

Your Library will soon have two new additions. The Book "Innermost Secrets" should be here anyday now, and the Board has approved purchasing the TI "Touch Typing Tutor" for the Library. SUE

11/18/84

Address all correspondence to:

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KENNEWICK, WA 99336