

NUT I NEWS

* NITTANY USERS OF TEXAS INSTRUMENTS *

D. Snell, Pres. (Actg)

MARCH 1991

M. Villano, Ed.



TI-99/4A

Send Exchange Newsletter
to NUTI 625 Wiltshire Dr.
State College, Pa. 16803
(Do NOT send to the MUG)
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GENEVE

VISIT
TI BOOTH
AT MIEC
MARCH 15-16
1991

ARTICLES BEING FEATURED THIS ISSUE:

TIPS FROM THE TIGERCUB No. 61... J. PETERSON's poster program in XB.
NEW-AGE/9S No. 13... SUGHRUE; recording tutorials & faires on video.
NJ FAIRE... FAMILY COMPUTER EXPO (formerly TICOFF) scheduled Mar. 9.

NEW MEETING DATE, LOCATION REPEATED

Meetings are regularly scheduled for third Saturdays at 1:30 PM at the PSU Campus in Rm. 104, Earth & Mineral Sciences Museum (Steidle Bldg).
NEX MEETINGS: No March meeting (MIEC 15-16th); April meeting on 20th.

1991 MIEC & COMPUTER FAIR: As was discussed at our Group meeting on Feb. 16th, NUTI is to participate in the *Tenth Annual Microcomputer Information Exchange Conference and Computer Fair* at the *Penn State's Conference Center* on Friday afternoon, March 15th, and on Saturday morning until noon or mid-afternoon, March 16th, 1991. *David Snell* and *Maurice Villano* plan to be there and will set up a 4/A and a Geneve and associated software and gear. They will need support at the tables passing out literature, and in putting on demonstrations of your favorite TI programs. NUTI software library will be available to copy disks and tapes. Give David & Maurice a call if you can help.

TI CONFERENCE VIDEO TAPES AVAILABLE

Reference the *Sughrue* article, we have the three VCR tapes of the Fair at Lima, OH on May 26, 1990. If interested, attend the April meeting.

TIPS FROM THE TIGERCUB

No. 61

Tigercub Software
156 Collingwood Ave.
Columbus, OH 43213

1 Aug. 1990

My stock of Tigercub Software catalogs is depleted and it would not pay me to reprint it. Therefore I have released all copyrighted Tigercub programs, except the Nuts & Bolts Disks, for free distribution providing that no price or copying fee is charged. All of my Tigercub programs have been added to my TI-PD library and are cataloged, by category, in Supplement #8.

My three Nuts & Bolts disks, each containing 100 or more subprograms, have been reduced to \$5.00. If I run out of printed documentation, it will be supplied on disk.

My TI-PD library now consists of 419 disks of fairware (by author's permission only) and public domain, all arranged by category and as full as possible, provided with loaders by full program name rather than filename. Basic programs converted to XBasic, etc. The price is just \$1.50 per disk(!), post paid if at least eight are ordered. TI-PD catalog #3 listing all titles and authors, is available for \$1 which is deductible from the first purchase.

This little program won't do any of the fancy things that the sophisticated poster programs do, but it may do a few things they don't. First: key in this fontmaker.

```

100 DISPLAY AT(3,1)ERASE ALL
: "Filename? DSK" :: ACCEPT A
T(3,14)BEEP:FS
110 OPEN #1:"DSK"&FS.OUTPUT
120 FOR J=32 TO 126 :: CALL
CHARPAT(J,CS):: CALL HEX_BIN
(CS,BS):: FOR K=1 TO 64
130 IF SEG$(BS,K,1)="0" THEN
CHS=CHS&CHR$(32)ELSE CHS=CH
S&CHR$(42)
140 NEXT K :: PRINT #1:CHS
: CHS="" :: NEXT J :: CLOSE
#1 :: STOP
150 SUB HEX_BIN(HS,BS):: HS$
="0123456789ABDEF" :: BS$=""
00000001X0010X0011X0100X010
1X0110X0111X1000X1001X1010X1
011X1100X1101X110X1111"
160 FOR J=LEN(HS)TO 1 STEP -
1 :: XS=SEG$(HS,J,1)
170 X=POS(HS,X,1)-1 :: TS=
SEG$(BS,X*5+1,4)&TS :: NEXT
J :: BS=TS :: TS="" :: SUBE
ND

```

This program reads the hex code of each character from ASCII 32 to 126, converts it to a 54-byte binary string of 0's and 1's, then changes each 0 to the blank ASCII 32 and each 1 to a printable character, and saves the result to a file of patterns to print characters 8 spaces wide by 8 spaces high.

The 42 in line 130 creates characters composed of asterisks. Change it to J and the characters will be composed of themselves - the A will be made up of A's, etc. Or, check your printer manual and substitute one of the special graphic symbols in ASCII 224 - 255.

The character patterns are designed from the hex codes in memory, so you can first merge in a reidentified char set such as a CHARA1 file or one of the fonts in my Nuts & Bolts disks or in my 127 Screen Fonts disk.

Create as many fonts as you want, then key in this poster maker program.

```

100 OPEN #1:"PIO",VARIABLE 1
36 :: PRINT #1:CHR$(27)&"Q";
110 DIM CH$(94):: Q,H=1 :: W
,SP=3 :: DB$,SJS="N" :: Q$,E
$="Y" :: GOTO 150
120 FS,CHS(),J,Q$,MS,FLAG,OU
T$,AS,S,GS,PC$,H,T$,L,A,C,K,
T,X$( ),SK,ST,DD
130 CALL KEY :: CALL SOUND
140 !@P-
150 DISPLAY AT(3,4)ERASE ALL
:"QUICK & DIRTY POSTERS" ::
DISPLAY AT(5,7):"by Jim Pete
rson"
160 DISPLAY AT(12,1):"Font f
ile? DSK" :: ACCEPT AT(12,15
)BEEP:FS :: ON ERROR 170 ::
GOTO 180
170 GOSUB 680 :: RETURN 160
180 OPEN #2:"DSK"&FS.INPUT :
: FOR J=1 TO 94 :: LINUT #2
:CH$(J):: NEXT J :: CLOSE #2
:: GOTO 190
190 DISPLAY AT(3,1)ERASE ALL
:"Load download font? Y/N "
:: ACCEPT AT(3,25)SIZE(-1)V
ALIDATE("YN")BEEP:Q$ :: IF Q
$="N" THEN 230
200 ON ERROR 210 :: DISPLAY
AT(3,1)ERASE ALL:"Filename?
DSK" :: ACCEPT AT(3,14):JS
: OPEN #2:"DSK"&FS.INPUT ::
GOTO 220
210 GOSUB 680 :: RETURN 200
220 LINUT #2:MS :: PRINT #1
:MS :: IF EOF(2):GOTO 220
ELSE CLOSE #2
230 IF FLAG=1 THEN 260 : FL
AG=1
240 ON ERROR 250 :: DISPLAY
AT(3,1)ERASE ALL:"Output fil
e? DSK" :: ACCEPT AT(3,17):O
UT$ : GOSUB 670 :: GOTO 260
250 GOSUB 680 :: RETURN 240
260 DISPLAY AT(3,1)ERASE ALL
:"(1) PICA"::"(2) ELITE"::"(3)
CONDENSED"::ST$(0) :: ACCEPT
AT(6,1)SIZE(-)VALIDATE"12
3"::Q
270 IF Q=1 THEN 9=80 :: IS=C
HR$(8):: GOSUB 640 :: GOTO

```

```

300
280 IF Q=2 THEN S=96 :: AS=C
HR$(27)&"B"&CHR$(2) :: GOSUB
640 :: GOTO 300
290 S=136 :: AS=CHR$(15) :: G
OSUB 640
300 DISPLAY AT(3,1):"Char wi
dth 1, 6, 7 or 8? "&STR$(W)
: ACCEPT AT(3,26)SIZE(-1)VAL
IDATE("1678")BEEP:W :: SS-IN
T(S/W)
310 DISPLAY AT(3,1)ERASE ALL
:"double width? "&DB$
320 ACCEPT AT(3,15)SIZE(-1)V
ALIDATE("YN")BEEP:DB$
330 IF DB$="Y" THEN SS=INT(S
S/2) :: S=S/2 :: AS=CHR$(27)&
"W"&CHR$(1) :: GOSUB 640 ELSE
AS=CHR$(27)&"W"&CHR$(0) :: G
OSUB 640
340 DISPLAY AT(3,1)ERASE ALL
:"double-strike? "&DS$ :: ACC
EPT AT(3,16)SIZE(-1)VALIDATE
("YN")BEEP:DS$
350 IF DS="Y" THEN AS=CHR$(2
7)&"S" :: GOSUB 640 ELSE AS=
CHR$(27)&"H" :: GOSUB 640
360 IF Q>1 THEN ES="N" :: G
OTO 380 ELSE DISPLAY AT(3,1)
ERASE ALL:"Emphasize? "&ES$
: ACCEPT AT(3,12)SIZE(-1)VAL
IDATE("YN")BEEP:ES$
370 IF ES="Y" THEN AS=CHR$(2
7)&"E" :: GOSUB 640 ELSE AS=
CHR$(27)&"F" :: GOSUB 640
380 IF DB$="Y" OR ES="Y" THE
N 410
390 DISPLAY AT(3,1)ERASE ALL
:"Superscript? "&SU$ :: ACCE
PT AT(3,14)SIZE(-1)VALIDATE(
"YN")BEEP:SU$
400 IF SU$="Y" THEN AS=CHR$(
27)&"S"&CHR$(0) :: GOSUB 640
ELSE AS=CHR$(27)&"T" :: GOSU
B 640
410 IF W=1 THEN 430 :: DISPL
AY AT(3,1)ERASE ALL:"Spacing
? "&STR$(SP)&" /72"
420 ACCEPT AT(3,10)SIZE(-3)V
ALIDATE(DIGIT):SP :: IF SP>1
27 THEN 420 ELSE AS=CHR$(27)
&"A"&CHR$(SP) :: GOSUB 640
430 PRINT #3:PC$: :: PC$=""
: IF W=1 THEN 450
440 DISPLAY AT(3,1)ERASE ALL
:"Multiplied height? "&STR$(
H) :: ACCEPT AT(3,20)SIZE(-1)
VALIDATE(DIGIT):H
450 DISPLAY AT(12,1)ERASE AL
L:"MAXIMUM LENGTH":SS:"LEITE
RS" :: LINPUT TS :: L=LEN(T$
) :: IF L>SS THEN 450
460 IF W>1 THEN 470 :: TS=RP
T$( " ",(SS-L)/2)ST$ :: PRINT
#1:TS :: GOTO 510
470 FOR J=1 TO LEN(T$) :: A=A
S(SB$(TS,J,1))-31 :: FOR K
=1 TO 57 STEP 8 :: X=X+1 ::
X$(X)=X$(X)&SB$(CH$(A),K,W)
: NEXT K :: X=0 :: NEXT J
480 T=(S-L*W)/2
490 FOR J=1 TO 8 :: X$(J)=RP
T$( " ",T)&X$(J) :: NEXT J
500 FOR J=1 TO 8 :: FOR K=1
TO H :: PRINT #1:X$(J) :: NEX
T K :: NEXT J
510 DISPLAY AT(3,1)ERASE ALL
:"OK? Y/N Y" :: ACCEPT AT(3,
9)SIZE(-1)VALIDATE("YN")BEEP
:Q$ :: IF Q$="N" THEN 540
520 IF W=1 THEN PRINT #3:TS
: SP=0 :: GOTO 500
530 FOR J=1 TO 8 :: FOR K=1
TO H :: PRINT #3:X$(J) :: NEX
T K :: X$(J)=" " :: NEXT J ::
GOTO 600
540 FOR J=1 TO 8 :: X$(J)="
" :: NEXT J
550 DISPLAY AT(3,1)ERASE ALL
:"(R)elo last line?":"(S)tar
t over?":"Choice? R/S R" ::
ACCEPT AT(5,13)SIZE(-1)VALID
ATE("RS")BEEP:Q$
560 IF Q$="S" THEN 590 :: 60
SUB 650
570 CLOSE #3 :: OPEN #3:"DSK
"&OUT$,INPUT
580 LINPUT #3:M$ :: PRINT #1
:M$ :: IF EOF(3)<>1 THEN 580
ELSE CLOSE #3 :: GOSUB 670
: GOTO 620
590 CLDSE #3:DELETE :: GOSUB
670 :: GOTO 620
600 DISPLAY AT(3,1)ERASE ALL
:"Skip how many lines? " ::
ACCEPT AT(3,22)VALIDATE(DIG
IT)BEEP:SK :: FOR J=1 TO SK*
8/SP :: PRINT #1 :: PRINT #3
:" " :: NEXT J
610 DISPLAY AT(3,1)ERASE ALL

```

```

:"More? Y" :: ACCEPT AT(3,7)
SIZE(-1)VALIDATE("YN")BEEP:Q
$ :: IF Q$="N" THEN CLOSE #3
: STDP
620 DISPLAY AT(3,1)ERASE ALL
:"Load new font? N" :: ACCEP
T AT(3,16)SIZE(-1)VALIDATE("
YN")BEEP:Q$ :: IF Q$="Y" THE
N PRINT #1:CHR$(27)&"@" :: G
OTO 150
630 DISPLAY AT(3,1)ERASE ALL
:"Change codes? N" :: ACCEPT
AT(3,15)SIZE(-1)VALIDATE("Y
N")BEEP:Q$ :: IF Q$="N" THEN
450 ELSE 260
640 PRINT #1:AS$ :: PC$=PC$&A
$ :: RETURN
650 DISPLAY AT(3,1)ERASE ALL
BEEP:"Set printer to top of
page:"and press Enter"
660 CALL KEY(0,K,ST) :: IF ST
=0 THEN 660 ELSE RETURN
670 OPEN #3:"DSK"&OUT$,VARIA
BLE 135,APPEND :: RETURN
680 CALL SOUND(1000,110,0,-4
,0) :: DISPLAY AT(23,1):"CANN
OT OPEN THAT FILE!" :: FOR D
D=1 TO 100 :: NEXT DD :: RET
URN
This program asks you for
one of your font files. Next
it allows you the option of
downloading special char-
acters to your printer, if
you have such a file on disk
Then you are asked for an
output filename: this is
necessary because the pro-
gram rapidly uses up avail-
able string storage memory.
Then you are taken through
the various printer options.
You also have a character
width choice of 1, 6, 7, 8.
The normal screen font uses
only 5 of the 8 pixels of
width, so you can select a
width of 6 or 7 to get more
letters on a line. If your
font file used a wider char-
set, be sure to allow for
spacing. If you select 1,
you will print a line in the
normal printer font.

```

```

You are also asked for the
line spacing, in 1/72" in-
crements. Characters are
normally 8 lines high, but
you have the option to print
each line multiple times for
tall characters or, with
closer line spacing, for
denser print. Try 3/72" with
superscript multiplied by
3, or 5/72" with a solid
block graphic character with
triple printing.
Finally, you are shown the
maximum number of characters
according to your options,
from 5 double-width 8-wide
to 22 compressed 6-wide; you
input a line and see it
printed. It will be automa-
tically centered.
If you are satisfied with
it, the line is saved to
disk, you specify the number
of lines (8/72" spacing) to
skip, and you are taken thru
the options (including a new
font) for the next line. The
previous selections become
the default options, so you
can skip through quickly.
If the line is not satis-
factory, you have the option
of advancing the paper to
the next page and reprinting
the poster up to that point
from the disk file and then
continuing.
Now, here's the neat part.
When you have finished your
poster, you can print as
many copies as you want.
Just key in this program -
100 OPEN #1:"PIO",VARIABLE 1
36 :: PRINT #1 CHR$(27)&"@
110 DISPLAY AT(12,1)ERASE AL
L:"Filename? DSK" :: ACCEPT
AT(12,14)BEEP:F$ :: OPEN #2:
"DSK"&F$,INPUT
120 DISPLAY AT(12,1)ERASE AL
L:"Load a download font? Y/N
N" :: ACCEPT AT(12,27)SIZE(
-1)VALIDATE("YN"):Q$ :: IF Q
$="N" THEN 150

```

```

130 DISPLAY AT(12,1)ERASE AL
L:"Filename? DSK" :: ACCEPT
AT(12,14)BEEP:F$ :: OPEN #3:
"DSK"&F$,INPUT
140 LINPUT #3:M$ :: PRINT #1
:M$ :: IF EOF(3)<>1 THEN 140
ELSE CLOSE #3
150 DISPLAY AT(12,1)ERASE AL
L:"How many copies?" :: ACCE
PT AT(12,18)VALIDATE(DIGIT):
N :: FOR J=1 TO N
160 DISPLAY AT(12,1)ERASE AL
L BEEP:"position paper, pres
s Enter"
170 CALL KEY(0,K,S) :: IF S=0
THEN 170 ELSE CALL CLEAR
180 LINPUT #2:M$ :: PRINT #1
:M$ :: IF EOF(2)<>1 THEN 180
ELSE CLOSE #2
You'll have to reposition
the paper after each one.
The poster maker program
was written for my Gemini
10X and I have not tried to
offer options for other
printers, since I don't have
them available for testing.
However, I think that these
are the essential changes
for the Epson standard.
260 DISPLAY AT(3,1)ERASE ALL
:"(1) PICA":"(2) ELITE":"(3)
COMPRESSED PICA":"(4) COMPR
ESSED ELITE":STR$(Q) :: ACCEP
T AT(7,1)SIZE(-1)VALIDATE("1
234")::Q
270 IF Q=1 THEN S=80 :: AS=C
HR$(18) :: GOSUB 640 :: GOTO
300
280 IF Q=2 THEN S=96 :: AS=C
HR$(27)&CHR$(77) :: GOSUB 640
:: GOTO 300
290 IF Q=3 THEN S=132 :: AS=
CHR$(15) :: GOSUB 640 ELSE S=
160 :: AS=CHR$(15) :: GOSUB 6
40
670 OPEN #3:"DSK"&OUT$,VARIA
BLE 160,APPEND :: RETURN
And these changes should
make compressed elite avail-
able on the Gemini SG10 in
Star mode.

```

```

260 DISPLAY AT(3,1)ERASE ALL
:"(1) PICA":"(2) ELITE":"(3)
COMPRESSED PICA":"(4) COMPR
ESSED ELITE":STR$(Q) :: ACCEP
T AT(7,1)SIZE(-1)VALIDATE("1
234")::Q
270 IF Q=1 THEN S=80 :: AS=C
HR$(18) :: GOSUB 640 :: GOTO
300
280 IF Q=2 THEN S=96 :: AS=C
HR$(27)&"B"&CHR$(2) :: GOSUB
640 :: GOTO 300
290 IF Q=3 THEN S=136 :: AS=
CHR$(15) :: GOSUB 640 ELSE S=
160 :: AS=CHR$(27)&"B"&CHR$(
4) :: GOSUB 640
670 OPEN #3:"DSK"&OUT$,VARIA
BLE 160,APPEND :: RETURN

```

Other modifications should be fairly easy. The variable S contains the maximum number of characters per line. In lines 310-400, the option is turned on if it is selected, turned off if it is not.

Almost out of memory,
Jim Peterson.

```

*****
*
*   _Editor's Note_
*
* TIPS FROM TIGERCUB#61 is
* the last numbered column,
* from Jim Peterson that's
* available to us.
*
* Until, indeed if at all,
* more "TIPS" are provided
* us, we'll publish some
* of Jim's older columns,
* which did not originally
* appear in _NUTI NEWS_ in
* some future issues.
*****

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W-AGE/99 * NEW-AGE/
99 * NEW-AGE/99 * N
EW-AGE/99 * NEW-AGE
/99 * NEW-AGE/99 *

* by JACK SUGHRUE, Box 459, East Douglas, MA 01516 *

#13

THE VCR CONNECTION

I think one of the most exciting things to happen in our 90 world is the advent of tutorial and conference videos.

Almost everyone has a VCR, the ownership of which can now open new words to 99 and Geneve users. Now that VCRs are coming down in price, more and more groups and individuals are using this tool to enhance their computer activities and share their computer knowledge.

The unquestioned master of this new genre is Dr. Charles Good of the Lima, Ohio, group. Videos have been around for some time and made their first TI existence about five or six years ago at the Chicago Fair. Some of the big-wiggies were interviewed and some screens were shown of different pieces of software. This amateur tape circulated for a year or so around lots of user groups. We (then still in the millions, it seemed) watched transfixed as new and exciting things were explained and shown to us.

Then drought.

Well, even though there were some other videos around here and there, the drought really ended when Charlie took up the cause with a vengeance. Not only does the Lima group make a monthly tape of the deems of their meetings, but they have amassed a vast TI tape library. I have on my desk (all from Lima) the following: NEVER RELEASED OFFICIAL TI MODULES, TI MULTI-USER GROUP CONFERENCE 1988, CONFERENCE 1989 (2 tapes), CONFERENCE 1990 (3 tapes), MBX REQUIRED GAMES, FUNNELWEB v4.2 DEMO, and DON ALEXANDER'S GENEVE SOFTWARE DEMO. These 10 tapes run about 50 hours! They are filled with all sorts of people demonstrating (or discussing or teaching) all sorts of TI things. I'll list a few.

Karl Romstedt - friendly general loader and label printing software in XB with assembly routines; Harold Hoyt - useful applications of Steve Karasek's SUPER BASIC; Irwin Hott - using ALSAVE to embed assembly code with an XB program; Bill Hudson - an assembly language prescan for XB; Multiplan Tutorial - presented by Great Lakes Computer Group; PLUS! - demonstrated by Jack Sughrue; Geneve - demonstrated by Edu Comp; Horizon Ramdisk - discussed by Bud Mills; Home Control 99 - demonstrated by Paul Wheeler; The Future of User Groups - discussion led by Charles Good and Dave Szippel of the Lima Group; A Blind Person Using the TI - demonstrated by Irwin Hott; NUTS & BOLTS - demonstrated by Jim Peterson; GENE III - demonstrated by Dick Berry; Output to a VCR - shown by John Perkins; 1000 WORDS - author Norman Rokke demonstrates this Artist/text conversion file; Barry Traver - contents of Serial Traveler and linking XB to assembly via CALL LINK; Chris Bobbitt - recent and future releases from Asgard; Andy Frueh - music programming on the 4a; Ron Markus - the DIJIT AVPC 80-column card; Jim Horn - services on COMPUSERVE; Martin Smoley - TI BASE tutorial; Paul Scheidemantle - converting from one Artist format to another and tips and tricks; Steve Karasek - SUPERBASIC 2.0; Karl Romstedt - Panorama, a new artist program; Milo Tsukroff - MX-DOS v3.0 an icon/joystick based program loader with disk management features; Beery Miller - future software for the Geneve; Jim Peterson - using Don Shorrock's Kana Filer that speaks and writes (with TEII)

Japanese and drills vocabulary; Bruce Harrison - secrets of assembly language programming to make TI music; Gary Bowser - Rambo review module library box; Gary Taylor - demonstration of TI's Compact Computer 40. TI's Hex Bus peripherals, and Mechatronics Hex Bus Drive; and lots more.

This should give you a good idea of the kinds of things available each May just from the annual Lima Fair (called "T.I. Multi User Group Conference," for some unknown reason). Each of these six-hour tapes use cameras on the tutor while cutting into the screen electronically when something is being shown. These tapes get better and better each year, and the editing techniques are superb. Although I haven't been able to attend the last two years, I felt I got a big part of the fair sent to me. I know a lot of other homebound TI acquaintances feel the same. It's no real substitute for being at the fair, of course, but it's a great second best. The TI experts are at your beck and call in your home any time you want them.

In addition to all these fair tapes, there are numerous "single theme" jobs also available. Don Alexander of Macon, Georgia, for example, does a fine job with the Geneve. I think this one is better for someone who has used the Geneve for awhile, though. I hope someone eventually does a truly step-by-step basic tutorial of the Geneve, maybe even a full six hours. It is sorely needed.

Charlie has also done theme tapes, such as MBX (where he steps through all the MBX modules) and UNRELEASED (where he plays and discusses all the delightful unreleased TI modules). I found both these tapes fascinating, particularly the UNRELEASED, as I could load them onto my SUPERCART or my GENEVE. Charlie's FUNNELWEB 4.2 DEMO is a classic. The viewer is taken through every step of the FWB configuration process that (for some strange reason) frightened so many people. Though the tape is similar to Charlie's tutorials in the BITS, BYTES & PIXELS newsletter he edits for Lima, it is far more extensive and much clearer, as you can see and hear everything being done live. I can't imagine anyone not being able to perform FWB magic after viewing this tape.

To get more information about these tapes (and/or join the Lima Group by mail which I would HIGHLY recommend), contact Charles Good, PO Box 647, Venedocia, OH 45894.

ANOTHER GOLDEN GOODIE

There is another great video now available to TI owners: the full-length LOGO video done by Eunice Spooner (RFD 1, Box 3720, Webb Road, Waterville, ME 04901). It is wonderful! It also comes with a disk full of lots of the items she demos and a hardcopy listing of the items and footage for easy tape locations.

Eunice is a certified elementary teacher and it is obvious on this tape. She's terrific: kind, patient, step-by-step logical, no panic; and she makes everything seem easy and fun. Which it is, if you do the things she suggests.

I always liked LOGO. Then I put it away for a long time. After viewing this tape and trying her programs, I discovered I * LOGO.

If you own LOGO, get this package instantly. At \$10 it is a total steal. And it is used as a fundraiser to support the only ALL KIDS TI USER GROUP IN THE WORLD! If you don't own LOGO, buy it instantly. (It's on sale everywhere CHEAP! I paid \$119 for my first and recently bought an unboxed one for \$15.) But, new or used, pick one up for this video/disk set alone. You'll rediscover the joys of computing and the real fun (and learning, which is why it is fun) of your remarkable 4a. Don't delay.

East Coast Computer Show - 6th Year

FAMILY COMP EXPO & HAM RADIO FEST Roselle Park H.S.

Exit No 137 NJ Garden State Parkway

Saturday Mar. 9th

9 AM TO 4 PM

Proceeds go to Student Scholarships
 Admission to Expo/Ham Fest: \$5.00
 FREE SOFTWARE WITH COPY OF THIS AD!
 CoSponsored by Students at RPHS and
 The Old Bridge Ham Radio Club
 Huge Indoor Vendor Area/Flea Market
 Workshops - Seminars - Fairware
 Hardware - Peripherals - Software
 Swap Shop- Door Prizes- Great Deals
 TI-99/4A - MS/DOS Compatibles - IBM
 N.J.A.S.C. Top Ten Projects Winner
 Info: 908-241-4550 BBS: 908-241-8902

SPECIAL NOTE
 At a key item, we will
 have a Pocket Radio Setup
 through the Armed Service
 Radio Net so that messages
 can be sent to servicemen
 involved in Project Desert
 Storm in Saudi Arabia.
 This is free of charge!

THE PENNSYLVANIA APPLES

Microcomputer Users' Group

President	Jeff Young	238-6507
Vice-President	Herb McKinsty	237-4341
Secretary	Peter Gold	238-7492 LPG@PSJVM
Treasurer	Mary Deutsch	237-4275
Newsletter Editor	Peter Gold	
Bulletin Board	Adrian Sullivan, SYSOP	863-7245

Meetings: Second Tuesday of each month

Meeting Location: Apple MUG meetings are held at 7:30 P.M. on the second Tuesday of each month in Room 189 of the Materials Research Lab on the Penn State campus. Executive committee meetings (to which all members are welcome) are held at the same time and place on the fourth Tuesday of each month. We do not expect the location to change in the foreseeable future so please ignore any different location listing in the meeting information table elsewhere in this newsletter.

February Meeting: About 25 people attended the February meeting. Susan Shields of the Penn State Microcomputer and Personal Workstation Group presented an excellent talk on networking small groups of Macs. Networking capabilities, in the form of AppleTalk, are built into all current Macs. A group of Macs may be networked for the purpose of sharing hardware resources, such as a printer, plotter, or modem, and to share files. Macs may be networked in a daisy chain or star configuration. In the former, each computer is part of a loop with cables going to each of the two adjacent computers in the loop. This is convenient and cheap for a few machines but becomes unwieldy for a larger group of machines, particularly if they are widely dispersed. In a star configuration a single wire goes from each computer to a central star controller. This is simpler to wire and expand but the controller is not cheap.

The necessary hardware for a daisy chain network to interconnect AppleTalk devices consists of a box for each device and the wires to go between them. The official Apple LocalTalk box is under \$60; it will support up to 1500 feet of wire between boxes. Farralon's PhoneNet Plus box is about \$30, will support up to 3000 feet between boxes, and uses relatively inexpensive telephone-type wiring and connectors. One of these systems is enough to establish the network. Some additional software can expand its capabilities. TOPS (street price ca. \$200) permits limited file sharing and even tolerates, up to a point, the presence of non-Mac equipment in the network. Public Folder (Clariss) does what its name suggests: It permits a folder in one machine to be accessible to all machines in the network.

For more extensive sharing of files the network can include a computer which, with the appropriate software, acts as a file server. It looks to the rest of the system like an extra hard drive which may be accessed by any machine on the net. Extensive use of the server will result in slow network response, however, due to the limited capacity of a simple network. Use of a file server also raises legal and ethical questions when several

users run a single copy of a copyrighted program at the same time. A file server can, with the appropriate software (e.g. Microsoft Mail) be used to provide electronic mail service within the network.

In principle, small networks can be linked to larger networks to provide, say, more extensive e-mail service. At present this is not always easy due to lack of standards but progress in this direction is expected fairly soon. At Penn State it is possible to go from an AppleTalk-based network into the University system with an AppleTalk-to-EtherTalk box costing around \$1600.

March Meeting: Ms. Shield's talk on networking was so well done that the group decided to ask her back for next month to continue her discussion of networks.

Executive Committee: As noted above, executive committee meetings are open to any club member. We use them to plan future club meeting program and other activities. Please come and bring your ideas.

Bulletin Board: As this is being written the bulletin board is down for some major editing of the IIGS files because we are running out of disk space. By the time you read this it should be up again. We will also look into operating problems reported by several members who have had difficulty accessing the board. We still need volunteers to help with the Mac part of the club library on the board. Come to an exec meeting if you're interested.

Rumor Mill: Your editor recently saw Tom Boger (former Apple student rep, now with Apple in marketing) who promised lots of new and exciting Apple products this spring. He wouldn't elaborate, of course, but the rumors in the press talk about some new printers (possibly including an ink-jet like the HP DeskWriter) and a new portable that's not only portable but affordable (by Apple standards, anyway).