

by Frank N. Zic

Our Aug. 16th. club meeting was well attended(40) but was a short meeting. Do you think the fact that John was on vacation and Scott was getting ready to head south too had anything to do with it? The SIG sessions, however, were extra long and interestingly different. I'll explain in a bit, a byte,-later. Scott opened the meeting at 7:15.

Old business... He mentioned the Harrisburg computer show and asked if anyone other than the 4 or 5 known to be going were interested in the show. Jan was busy working at her new job but still managed to provide us with goodies. Scott mentioned the Proto-type boards he and John were making up. It is similar to the one shown in the Sept. issue of Computer Shopper and will be sold at the Computer Bug. Connections are made at the Address & Data buses using Tri-state buffers, more details on this project at the next meeting. Scott sent to DAK Co. for the X-10 Power House unit but they said they were sold-out. He will try elsewhere. The X-10 unit, by the way, is compatable with TI, Apple and IBM but not with Commadore.

New business...Our regular secretary (Ed) showed up a little late and mentioned that next month he would take the notes and also present the Library listing that Clyde has organized. The next item mentioned was the ML system interface that allows connection between an IBM and TI unit. In this same line, two IBM keyboards were available for sale at a very nice price. The \$1 raffle was almost a sell-out, you would have thought everyone was promised a gift.

Prior to the classes, I talked about the new note keeping system that I developed using the TI-Writer called "My Electronic Notebook". The discussion high lighted some unique uses I've found for the TI-Writer and some hard copy examples were passed around. An article discribing the "Notebook" is found included in this newsletter. Comments are welcome. The high point of the evening came when young Rob Ekl discribed how he and his father Joe Ely made a portable disk expansion system. What a nice job they did. The unit is about the size of a PEB but contains a GRAM Kracker, Horizon Ram Disk, 2 Disk Drives, 3 (modified) Card Slots, 32K in 4 chips, Power supply and The 1/8 inch thick Aluminum housing had recessed Allen Cooling Fan. head screws like an airplane. You would have to see it to appreciate the fine job. Nice going Joe and Rob. You should take a picture of the unit with the two of you standing behind and write an article about it for the MICROpendium or Computer Shopper. In the back of the room there was a catalog listing of disks available from a Florida TI users Late in the evening we had two more visitors Judy Muir and her group. friend. She showed the portable Timex Sinclair computer that she made up in a plastic folding case no larger than a TI console. It was written-up in the June/July 87 issue of CTM magazine.

Well, I guess Ed will be on the job next month. I've enjoyed writting the minutes for you the passed 4 months. Until next time may the good 4's be with you.

FROM JAN TRAYERS *******************************

*		*
•	CASH BALANCE	•
•	REFUND (1/2 DU	•
•	CASH BALANCE	78.00 *
* * " *	LIBRARY SALES	26.00 *
* " *	DISK, ETC. SALES	*
* "	RAFFLE	* 32.00 *
* * ¹¹	MANUALS	* 193.50 *
* "	MICROPENDIUMS	* 16.75 *
* * *	MEMBERSHIP	* + 5.00 *
* Т(DTAL CASH	\$377.25 *
* * 8/25 *	DISK PAYMENT	* - 132.00 *
*	TOTAL BANK DEPOSIT	245.25 *
* ******** *******	CASH ON HAND ************************************	45.25 * ************ ********
	BANK BALANCE	
* * 8/18 *	POSTAGE	* - 61.05 *
*	MICROPENDIUMS BALANCE	382.95 * - 15.00 *
* * * 8/28 *	-	367.95 * + 200.00 *
* * *******	BANK BALANCE ************************************	\$567.95 * *******
* * TOT: *	AL CASH BALANCE	* \$613.20 * *

JUST A SHORT NOTE TO THANK EVERYONE THAT'S BEEN NICE ENOUGH TO TAKE OVER AT THE MEETINGS NOW THAT I HAVE TO WORK ON MEETING NIGHTS. THANKS TO MICKEY AND MIKE THE MONEY WORKED OUT FINE. THE GOODIES MAY TAKE SOME MORE ADJUSTING, BUT I'LL WORK IT OUT. ***** JAN IT!

Hey guys and gales, (for you younger members, this means listen up), I'm sorry I missed the last meeting, but summer was fast coming to an end, and my three daughters wanted to see the ATLANTIC OCEAN. We went to the OCEAN CITY, MARYLAND area for some sun and relaxation. Well, you better be on your toes this month, I'M BACK ! And that's a warning! Lest I forget, we took FAY with us. She, the kids, and I had a very good time.

I don't know how many of you will remember, but this September, the WEST PENN 99'ERS will be an unofficial TWO YEARS old. September, 1985 we held an organizational meeting at the GREENGATE MALL Community Room. Seem's like ten years have passed. I was too busy before this club was started, and you can imagine how busy I got. Well, if it wasn't for the people who are the officers and members who have picked up the responsibility of contributing to the WEST PENN 99'ERS, this club wouldn't be one of the FEW clubs still growing, and prospering in the fragile community of home computer users. I'm not talking about just here in Western Pennsylvania, but in the whole U.S. of A. Be proud of that!

We generally have members, who will do whatever it takes to share, and care. It's not always easy. We must ignore the exodus to other computers. Many devoted T.I. users have a PC at home, and enjoy the machine for what it does, and rightly so. They still have a spot in their lives for the T.I. 99/4A. There is NO OTHER machine that talks to you the way the TI does. There is NO OTHER machine that shows you what the TI shows you. There is NO OTHER machine that has the endurance that the TI has.

Some of you have invested thousands, as I have in the system, while others have only a few dollars in the bare console. Whichever user you are, if you have that machine out of the closet, you are learning, enjoying, and in most cases saying that you would do it all over again.

We will be starting year number THREE in October. We are in better shape, because within we are strong, and there is now a stronger, more dedicated bunch of suppliers of hardware and software out there now than at any other time, bar none! The number of them is less, but the QUANTITY/QUALITY of programs and hardware is much higher. Over the last three months, (summer) I have tried to

give you a list of offerings, that is fairly representative of what is available. THERE'S MORE TO COME!

Now the interesting part. YOU must support these who are walking a very fragile tight rope to provide you with the products, and make enough money to warrant doing it!

You can't leave it to the other guy. Please try to pay for that piece of software (if you use it and it's a freeware program), If you already have a complete system and it's paid for, why not invest in that new piece of hardware that you used to say "why doesn't someone make one?" It's here NOW! Buy NOW!

> If the suppliers don't see a market there today, they will not continue very long to produce for YOU! You will find some interesting new things for you on page 7,8 and 9.

Some of you may have already decided to slow on your use of the TI99/4A, but it's not too late to plug it back in, come to a meeting, and start to SORRY I CAN'T BE THERE. I REALLY MISS enjoy computing again, maybe more than before !

This is a reprint of an article from the C.C.99'ER, Feb. 1986, by JIM BURES.

TIC-TAC-TOE with LIGHT-PEN

I've seen several schematics for LIGHT-Pens that work with the T.I., but I havent seen any programs that utilize the pen. I decided to build one for the novelty of it, but I had to write a small program for it. I found all the parts at a RADIO SHACK, and the part numbers are listed in this article. Because of several differences in the schematics I reviewed, and only a basic understanding of electronics, I constructed the project on an experimenters breadboard, so that changes could be made.

After several tries, the pen worked, but was so sensitive to the slightest ray of light from anywhere set the pen off. A black hood over the photo-transistor with only a small hole in the end and some delay loops in the program solved the problem. Now about the program. It is in Extended Basic only because I wanted to use sprites.

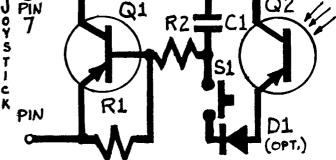
I wanted to use sprites. Lines 130 to 350 set up the game board and defines characters. Lines 360 to 550 are the meat of the program. Line 430 checks to see if the light-pen has been set off by a light source (in this program it is a white colored sprite). The rest of the program lines will determine which marker (X or Y) goes where. The program is not really complete because no checks are done to see who wins. I'll leave that to you.

(Ed. note: There is a basic version of this program, that does more checking, but for the sake of providing a program, and a light-pen for you who havent built one, I'm including this one. There is also another program that uses a double set of light-pens for gaming between two players on one screen,)

100 REM * TIC-TAC-TOE 110 REM * LIGHT-PEN DEMO * 120 REM # BY JIM BUREB Ż 130 F=1 :: Z=1 140 DIM A(7,2) 150 CALL COLOR(3,12,1) | CALL CO LOR(4,12,1) 160 A(1,1)=16 :: A(1,2)=16 ::2,1)=16 :: A(2,2)=104 :: A(3,1)=16 II A(3,2)=184 170 A(4,1)=80 :: A(4,2)=16 :: A(5,1)=80 :: A(5,2)=104 :: A(6,1)= 80 1: A(6,2)=184 180 A(7,1)=144 II A(7,2)=16 II A (8,1)=144 :: A(8,2)=104 :: A(7,1))=144 :: A(9,2)=184 190 CALL SCREEN(2) 200 CALL COLDR(10,13,1) 210 CALL CLEAR 220 51\$="80402010080402010102040 81020408001020408102040808040201 008040201" 230 CALL CHAR(96,81\$) 240 CALL MAGNIFY(4) 250 82#="FF8080808080808080808080808 0808080FFFF010101010101010101010 1010101FF" 260 CALL CHAR (100, 525) 270 CALL DELBPRITE (ALL)

SCHEMATIC and PARTS LIST

R1 - 470K ohm R2 - 47K ohm Q1 - 2N907 Tran. R.S. # 276-2023 Q2 - TIL414 Phototran R.S.# 276-145 C1 - 0.01 mF capacitor R.S.# 272-1472 S1 - Any small momentary contact switch D1 - OPTIONAL Diode 1N914 or 1N34A PIN Q1 Q2



Acquire a large felt tip pen to use as a housing for the above aparatus. An old joystick cable will make a perfect cable with the female 9-PIN D TYPE connector, which will make assembly easier, faster, and definitly more economical.

(** WP99 UG assumes no responsibility for any damage you may do to your console attempting to install this feature **)

280 CALL CHAR (104, "1010101010101 010") 290 CALL VCHAR(1,20,104,24) 300 CALL VCHAR(1, 10, 104, 24) 310 CALL CHAR(105, "FF00") 320 CALL HCHAR(8,1,105,32) 330 CALL HCHAR(16,1,105,32) FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFF 350 CALL CHAR(108,53\$) 360 Z=Z+1 370 IF F<=0 THEN S=94 ELSE S=100 380 FOR I=1 TO 9 390 R=A(I,1):: C=A(I,2)400 IF A(I,1)=0 THEN 470 410 CALL SPRITE (#1,108,16,R,C) 420 FDR D=1 TD 6 430 CALL JDYST(1,X,Y) 440 IF X THEN 490 450 NEXT D 460 CALL DELSPRITE (#1) 470 NEXT I 480 GOTO 370 490 CALL DELSPRITE (#1):: CALL SO UND (500, 770, 1):: CALL SOUND (50, 4 0000,30) 500 FDR D=1 TD 6 II NEXT D 510 CALL SPRITE (#Z, S, 5, R, C) 520 Q=Q+1 II IF Q=9 THEN 550 530 A(I,1)=0 :: A(I,2)=0540 F=-F 11 GDTD 360 550 GOTD 550

-BY FRANK N. ZIC

Here we go together-No.9. How many times I've heard, " I wish I had a good Data Base program to keep my personal or house inventory records up-to-date". Sound familiar? Well, perhaps the following explaination of a system I developed will help you with your problem as it has done with mine. I have it fully developed for my purpose but the nice thing about it is that it can easily be modified to suit your own individual needs. A little background first. There are a number of Data Base programs available such as: Acorn 99, Data Base 1, Name-It, TI's Personal Record Keeping, P R Base and Turbo-Dataman. Many of these I've tried and found lacking in one way or another, such as: capacity, speed, organization, instructions or some other characteristic. Well, I simply used something that most of us already have and may have over-looked. It is the TI-Writer. I have used it for so many things that surely it's uses are nearly infinite. Here is a partial listing of some of the things for which I have used (1) Wills, (2) Obituaries, (3) Calling Cards, (4) Writing TI-Writer: Letters, (5) Addressing Envelopes, (6) Postal Labels, (7) VCR Labels {all kinds of labels}, (8) Recipies, (9) Photo Albums, (10) Personal Diary and many other uses. Then too let's not forget its use in writing this article. To this list can be added the object of this article, which I call "My Electronic Notebook". I am planning to demo some of these new West Penn 99'er meeting. I will have some technics at the Aug. modified hard copies as examples of some of the projects I mentioned Before I get into the details of this article I would like to above. take this opportunity to thank a very good friend of mine, Jerry Petrulak, who has been a true computer buddy and given unselfishly of his vast knowledge. While I developed the TI-Writer method of note keeping for my own needs, Jerry prefers the PR Base for his inventory records.

I'm afraid that space limitations will cut short a detailed explaination of my project, but with a detail of one of the catagories, (S/3 Services) shown below, you will get the idea. Remember that all of the marvelous features of TI-Writer are available to you for up-dating, rearranging and printing out. On a single DSSD disk I loaded just the Editor of TI-Writer, the main INDEX and all of the data files. There are still over 500 sectors available for storage. Now that's what I call room. Note each filename is called up with a three (3) key filename. Give it a try and modify it to your own needs. Now John can print the main INDEX on the facing page, we'll be all set. if The phone No's below are all active. May the good 4's be with you.

S/3 Services	(cont.)
S/3/1 Auto repairs 271 1310	: S/3/6 Hauling 751 0862
Auto body 751 9309	: Hauling/Soil 672 6470
S/3/2 Clocks Pick-up 863 1535	: Hauling, top soil, stones, excv.
S/3/3 EEL Svc"Cole"Heating/Plumbing	: 793 6943
823 8240 Turtle Creek	: S/3/7 Home Baking 751 0475
EEL SVC "Bill" 243 5579	: " cleaning 829 1417 Marianne
S/3/4 Grass cut Ray Baldis	: S/3/8 Organ tuning 364 1038
call 751 8243 or 9309	: S/3/9 Plastering 751 9343
S/3/5 Gen repairs Paul 751 6931	: Plastering 30yrs 824 8089
Gen. Lawn,paint,paper hang'n	: S/3/10 Sewing mach. 30yrs Sears exp.
John 351 5467	: 751 8765 or 372 1969
Landscaping "Chris"795 5484	: S/3/11 Soil \$85/Load 372 0380
Cement work 824 0513	: Slag \$8.50/T David 793 5050
" 30yrs 373 3017	: Soil/Walls 461 9014,462 9973
" Pete 731 7811	: S/3/12 Upholstering 527 2106
Trees Tim Dworic 751 6563	: "Back's" Free est./Del.
" 672 0400	:

CONTINUED FROM PAGE 4..... INDEX (Modify to your needs) Α A/1 Addresses A/2 Appliance Repair B/1 Bank vault B B/2 Banking B/3 Birth Dates B/4 Boat B/5 Books B/6 Bonds C C/1 Camper C/2 Car C/3 Charge Cards C/4 Computer C/5 Credit Union D/1 Danny D *D/2 Dates(Up-coming) D/3 Dental D/4 Documents D/5 Dog(Lady) E E/1 ELeanor E/2 Emergency F F/1 Frank G G/1 Garage *G/2 Garbage pick-up H H/1 Hospital H/2 Hotels H/3 House I *I/1 Insurance I/2 Investments J---K---L M M/1 Marrage M/2 Medical *M/3 Membersips M/4 Misc Info Ν 0 Ρ P/1 Price, Frances Q R *R/1 Retirement Groups R/2 Rose & Mark S S/1 Sattellite S/2 Serial No's S/3 Services (Details opposite) S/4 Social Sec. *S/5 Subscripitions T *T/1 Taxes & Quaterly T/2 Telephone No's T/3 Tours T/4 Travel U/1 Uncles U *U/2 UPS U/3 USX V W W/1 Weather W/2 Weimers X---Z

NOTE: * Check these items often.

The following is a master file that I used to print out a chemistry laboratory manual that I wrote. Kindly notice that I have all the formatting commands plus all the files in the order that I want them printed out. .AD

T.I. Writer (Part 13) Stan Katzman

.FI .HE .LM 6 .RM 70 .IN +5 .TL 124:27,109,4,134 .TL 123:27,83,49 .TL 125:27,84 .TL 91:27,83,48 .PL 60 .IF DSK2.LABNTBK .IF DSK2.APP . IF DSK2.MELTING .IF DSK2.DISTIL .IF DSK2.CRYST .IF DSK2.INFRED . IF DSK2.NMR .IF DSK2.SEPFUN .IF DSK2.DRYING .IF DSK2.BUTENE .IF DSK2.VPC .IF DSK2.KER .IF DSK2.NITBENZ .IF DSK2.BROMBENZ .IF DSK2.CRAFTS .IF DSK2.ANILINE . IF DSK2.NABH .IF DSK2.ROTATION . IF DSK2.BUTBROM .IF DSK2.CYCHEX .IF DSK2.VALERIC .IF DSK2.BUTACE . IF DSK2.BENZOIC .IF DSK2.METHBENZ . IF DSK2.MNBENZ . IF DSK2.MDICHLBENZ .IF DSK2.DIELS .IF DSK2.ALDOL .IF DSK2.MUT .IF DSK2.SUG Many people have asked for copies of the T.I. WRITER series that Stan has written for the WEST PENN 99'ers. If you missed some issues, and would like the whole series, contact me. I'll provide the series for you in the original form. Stan has already provided me with a years

supply of PASCAL for the p-CODE system. So if you ever wanted to get started using and learning to program in PASCAL, and you have access to the p-CODE card for the T.I. System, get ready. (I think that using T.I. WRITER has really gotten Stan in the mood for writing!)

GETTING	THE MOST
UNDERSTANDING	- CREATING - AND USING - CASSETTE FILES PART III

THIS "INT- I AM CONTINUING WITH THE TOPIC OF UNDERSTANDING - CREATING - AND USING - INTE FILES. "IN SPECIFICALLY, I WILL BE TONTING WITH THE TOPIC OF... "NUM TO "OPEN" UP A A ------ FILE"... WILL I FILE B: -N DISCUSSING LAST MONTH... IN PART II OF THIS --- ICULAR SERIES.

A "FILE-NAME" REFERS TO A DEVICE OR TO A FILE WHICH IS LOCATED ON A DEVICE DEPENDING ON THE CATEDITIE OF THE ACCESSORY, EACH ACCESSORY HAS A "PREDEF TO NAME THE COMPUTER RECTORING. FOR ENTRY AND THE VALID FILE-NAMES" FOR THE TWO COMPUTER CASSETTE THE TARE "LET AND THE." BY INCLURING THIS "FILE-NAME" IN THE "OPEN" STTEMENT, YOU ARE TELLING THE TO ACCESS A PARTICULAR "FILE" OR "DEVICE, WHENEVER THE PROGRAM REFERENCES THE ASLITATED "FILE-NAME".

IF ALL OF THIS FILLS SWAY TO CONFUSING FOR YOU... FEAR NOT... I FELT THE LET A MYSELFY WITH THE FOR THIS TO BE THE IN TALLET IN TALLET IN TALLET IN TALLET IN TALLET UNDERSTANDING OF ALL THE THEW MATERIALT THAT I HAVE EXAMINED SU FAR.

TO "OPEN" UP A CASSETTE FILE... FOLLOW THESE STEPS...

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F F L-1- F F L-1- LINE INUMBER	STATES		FILE SIGN	FILE NUMBER ====================================			FILE NAME CS1/CS2	
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NEXT MONTH I WILL CONTINUE WITH THE TOPIC OF UNDERSIANING - CREATING - AN USING - CARETIE FILES, ATTE SPECIFICALLY, I WILL BE INTINUING WITH THE TER OF "HOW TO "ITEN" UP A CHEEP TE FILE"... INCLUDING... THE CONTINUATION OF THE ABOVE CHART.

IN THE MEAN TIME... IF YOU NEED ANY HELP OR HAVE ANY QUESTIONS CONCERNING YOUR CASSETTE SYSTEM - JUST GIVE ME A CALL (412-335-0163) AND I'LL \mathbb{R}_1 TO HELP.

HIGH-SCORING GAMES

1 1 1	GAME	SCORE	COMMENTS	DATE	NANE
1	ARCTURUS	14040 I		5-28-87	I Tony Mawhinney III
i	BURGERTIME	82600	PATTERN 21	t i	NICKEY SCHMITT
Ì	BURGER BUILDER	1000000			ELEANOR ZIC
‡ ‡	1		NEVER FINE OUT		
1	CENTIPEDE	301930		1-02-87	I HICKEY SCHNITT
ļ	DIG DUG	262460			FRANK ZIC
1	DIG DUG	216740		# [: #	ELEANOR ZIC
1	HUSTLE	WON 52	LOST 27 TIEL ONCE	+ 	ELEANOR ZIC
1	JUMPY	131900	PATTERN 21	t t	ELEANOR ZIC
1	JUNGLE JIN	10730		5-28-87	TONY MANHINNEY III
1	MICRO PINBALL	1776500		5-18-87	NORM ROKKE
1	WICRO PINBALL	969500		6-27-67	NIKE SEALY
1	NIDNITE WASON	24720	, . ,	6-16-87	FRANK ZIC
1	MIDNITE MASON	19340	• ‡ •	t 6-28-87	ELEANOR ZIC
:	MOON PATROL	1 73150	LEVEL K CHAMPIONSHIP	• • •	t MIKE SEALY
ł	MUNCHNAN	1 29290 :	LEVEL 10	8-28-87	HICKEY SCHNITT
4 1 1	PARSEC	41900	LEVEL 3	8-27-87	NICKEY SCHWITT
1	POLE POSITION	105200	+ # #	- t t	# DAVID RENNER
* * *	TI INVADERS	\$ 9863 \$	ABCHEBEIVE	8-28-87 1	NICKEY SCHMITT

	1 1 (m) C		t to muschage the
Frank Foster has these (M)c			
item, Frank is asking \$5.00			
A-MAZ-ING (M)	ADVENTURE (M&T)	ADD. & SUBT. 1 (M)	BLASTO (M)
BURGERTIME (M)	CAR WARS (M)	CHISHOLM TRAIL (M)	
CENTIPEDE (M)	DONKEY KONG (M)	HOUSEHOLD BDG. MGM.(M)	
TI INVADERS (M)	MUSIC MAKER (M)	NUMBER MAGIC (M)	PAC-MAN (M)
PARSEC (M)	PERSONAL FIN. AIDS (T)	STAR TREK (M)	TEACH YSLF. BAS.(T)
TEACH YSLF. EXBASIC (T)	Z-BERT (T)		
THE REST OF YOU HAVE CARTRI	DGES, TAPES, BOOKS, ETC.	LET'S REDISTRIBUTE THE S	STUFF. JFW WP99'ER

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MORE STUFF FOR THE TI...... (WP99) REQUIRES IMMEDIATE RESPONSE!.... The "COMPUTER SHOPPER" carries ads from many suppliers of computers, peripherals, and software. It has been a long time since I have seen ads in the "NON TI CIRCLE" of advertisers. The September issue, however, carries many ads that I believe support YOU and your TI, in particularly the ALPHA SCIENTIFIC ad on page 211. Example: "Attention TI99/4A Owners: 3.5 conversion is just as easy. Works with your controller[Myarc or Cor-Comp] and software." This refers to an ad to upgrade $5\frac{1}{4}$ " disk drives to $3\frac{1}{2}$ " TOSHIBA Micro Drives for \$125. The same ad lists "DOTS-PERFECT", upgrades for EPSON FX, JX, RX, MX, the TI(EPSON) matrix printer, and IBM graphics printers. This gives you Near Letter Quality, and Select Type features for these printers. (Graftrax included with MX kit) for \$63. They also include a 128K parallel printer buffer, w/power supply and cable for \$89. . If you dont't subscribe to this terrific computer magazine, you should do it right now: COMPUTER SHOPPER ALPHA SCIENTIFIC Alpha Scientific carries alot : PO BOX 1419 P.O. BOX 626 more, such as printers, ribbons, CHESTERFIELD, MO TITUSVILLE, FL Winchester disk drives, for the 63006 PC, Apple, and Atari users. 32781-9988 Phone: 1-800-327-9926 (M-F) ••••• Phone: (314) 878-7117 (Central Time) 10 AM to 5 PM 1-YEAR SUBSCRIPTION \$21.00 Saturday 10 AM to 2 PM. MEGATRONICS, INC P.O. BOX 3660 LOGAN, UT 84321, has a very exceptional modem for sale, the AVATEX 1200 for \$85.00! Features include: (((HURRY!!))) * DIRECT CONNECT * EXTERNAL AC ADAPTER * 8 LED STATUS INDICATORS * AUTO ANSWER AND DIAL * HAYES COMPATABLE, AT COMMAND SET * BELL 103/212A COMPATIBLE * TONE OR PULSE DIALING * TELEPHONE CONNECTION JACK * STANDARD DB25RS 232-C CONNECTOR * FCC APPROVED Includes FREE! Communication software & Compuserve Access Time , FREE SHIPPING, Toll Free assistance, immediate delivery, no service or handling fees. \$85.00 is IT! CALL:1-800-232-6342 (1-800-752-2642 inside Utah) or FAX(801)752-8752 (The above ad was also from COMPUTER SHOPPER) CHILDREN'S SOFTWARE. Over 80 original, fun, inexpensive, educational programs for the TI99/4A. Send a LARGE SASE for brochure. KIDware, 1380 156th NE, Suite H2, Bellevue, 98007 WA IF YOU ARE LOOKING FOR A GOOD DEAL, YOU WILL HAVE TO GET THE ABSOLUTE LATEST ISSUE OF THE COMPUTER SHOPPER, AND READ IT FROM COVER TO COVER THE FIRST NIGHT, (about 538 pages) FIND WHAT IT IS THAT YOU . D (OR WIT), AND ORDER IT IN DIATELY. JUST A SUGGESTION. "DESKTOP PUBLISHER" for the TI FINALLY ¿?¿?¿???. I don't know yet. But if you got the

August issue of the MICROpendium, page 7, DATABIOTICS, INC. is announcing what appears to be the closest thing yet to the DESKTOP PUBLISHER programs found on other computers. It is even touted to require only a console and printer in it's basest configuration. It is something we've all been waiting for. SEND \$59.95 + \$1.50 S/H to:

DATABIOTICS, INC. P.O. BOX 1194, PALOS VERDES ESTATES, CA 90274

Want a FANCY CERTIFICATE ? TEX-COMP is marketing a CERTIFICATE-POSTER maker for the TI99/4A. 100% ASSEMBLY LANGUAGE program. Disk based w/six text fonts in two sizes, twelve borders, twenty-four clip art graphics and official looking signatures and seals! For EPSON/STAR dot matrix or compatible printer in single or double strike or NLQ. REQUIRES: 32K, disk, ex-basic or e/a, or mini-mem. or TI-Writer. \$19.95 + \$3.00 S/H ORDER FROM: TEX-COMP P.O. BOX 33064 GRANADA HILLS, CA 91344 (818) 366-6631 (24 HOUR)

For those of you who have The Printer's Apprentice, Mc Cann Software now has the: "TPA TOOLBOX" including PAGE MANAGER, SIGN TOOL, FONT CONVERSION, BORDER BUILDER, FORMS TOOL, FONTS & BORDERS. Each program of TPA TOOLBOX works and prints on it's own and each is compatible with The Printer's Apprentice. Requires: 32K, Disk System, and either EXT. BASIC or EDITO ASSEMBLER. Works with TI-99/4 Printer, Gemini 10X and Epson compatible graphics printers, including Panasonic 1091, Star NX and IBM.

TPA TOOLBOX @ \$22.50, The Printer's Apprentice @ \$22.50, Fonts Disk 1 @ \$11.50. McCann pays the postage. To order send check or MO in U.S. Funds to :

McCann Software P.O. BOX 34160 OMAHA, NE 68134 FASTEXT 80 printer owners, send for a listing of BOOKS and DISK /CASSETTE software to control your FASTEXT 80 printer with your TI99/4A computer. There are quite a lot of book and program items available. WRITE TO: McWare P.O. BOX 2784 FAIRFAX, VA 22031

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WRITE THIS ADDRESS DOWN.... BUD MILLS SERVICES 166 DARTMOUTH DR. TOLEDO, OH 43614 PHONE NUMBER...(419) 385-5946 because most of the next couple of paragraphs deal with products that BUD is very closely involved with. He'll be glad to hear from you.

- (1) Bud is carrying a kit and instructions for putting 64K (32K usable right now), on the 16 BIT buss in the TI console. I demonstrated this at the JULY meeting. The KIT (includes two 62256 static RAM chips, the two support chips and instructions) sells for \$27.00 (which includes s/h). INTERESTED ? Order from BUD MILLS SERVICES.
- (2) Bud also carries all the parts (less the bare board which is available from HORIZON) for the HORIZON RAM DISK. The DSSD Version sells for \$110.00. Five or more KITS can be ordered, and a 5% discount applied.(SEE COUPON BELOW for members of West Penn 99)
- (3) Bud is providing kits for the JOHN CHULOW DSR card. Call him for prices and info. on availability.
- (4) This now is the tricky part. There is a more than strong RUMOR that a 1-MEG version of the HORIZON RAM DISK is NOW available. The designer is MIKE BALLMAN. The unit can be configured as (2) DSDD (yes DOUBLE Density) and (1) 256K Unit, all on ONE card, and all the advantages of the ORIGINAL HORIZON RAM DISK. Remember this is a RUMOR, but if you would like to know more about this RUMOR, call or WRITE BUD .
- (5) It is also appropriate to mention that BUD carries a high quality, low priced inventory of electronic parts.

The bare board for the HORIZON RAM DISK, or the completed units can be ordered directly from the "HORIZON COMPUTER LIMITED P.O. BOX 554 WALBRIDGE, OH 43465. Assembled: \$165.00 for SSSD version, \$210.00 for DSSD version, 90 DAY WARRANTY. BARE BOARD price: \$53.00 w/docs & disks, and \$45.00 w/one set of docs & disks in quantities of five or more.

At a meeting of the hardware SIG of the West Penn 99'ers in JUNE there were several of you who indicated that you would like to build a unit (HORIZON RAM DISK) as part of the SIG meeting, and wanted me to organize this undertaking. Well since summer will be over by the time you read this, I've decided to make this effort now. If you are really interested please fill out the coupon and include TWO checks. One for the BOARD, and one for the PARTS. The price will be \$105.00 made out to "BUD MILLS SERVICES", and the other to "HORIZON COMPUTER LIMITED" for \$45.00. I will then order all the parts as one order to get the discount, I'll duplicate the MANUALS, and you provide the blank (3) disks for us to duplicate the OPERATING SYSTEM, and source code disks. We will then begin to build them in the OCTOBER meeting of the SIG. (you may want to build your own at your own pace but want to order with us to get the savings, that's OK too) So please fill this out and return to me, no later than the SEPTEMBER MEETING ! John F. Willforth

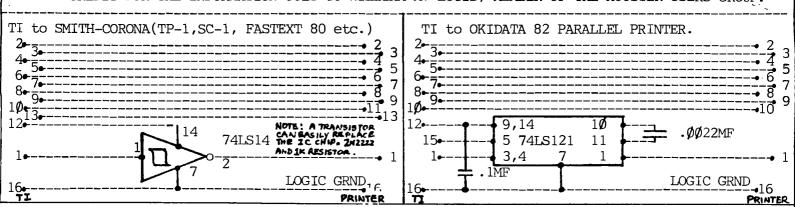
ORDER FORM ONLY FOR WEST PENN 99'ERS TO ORDER	THE HORIZON RAM DISK KIT PARTS(SEPT.1987)
I WOULD LIKE TO BUILDHORIZON RAM	
ONE FOR THE "PARTS" WITH A TOTAL OF \$	00, (\$105.00 for each kit), AND
ONE FOR THE "BOARD" FOR A TOTAL OF \$	00, (\$ 45.00 for each board).
NAME	SEND TO:
ADDRESS	JOHN F. WILLFORTH
CITY/STATE/ ZIP	R.D. #1 BOX 73A
PHONE NUMBER ()	JEANNETTE, PA 15644

YOU MAY SEND THE ABOVE INFORMATION ON A SEPARATE SHEET OF PAPER TO AVOID DESTROYING PAGE.

I'VE GOT IT ! I		THE PEB PROTO BOARD IS HERE!
HARDWARE MANUAL	IT DESCRIBES: • CONSOLE DESIGN • CUSTOM CHIP OPERATION • TMS 9900 H/W ORGANIZATION • TMS 9900 INSTRUCTION SET • INTERFACING PITFALLS • CONSOLE SCHEMATICS • PEB CARO DESCRIPTION • GROM SIMULATOR DESIGN • EXTENDED BASIC MODULE DESCRIPTION & SCHEMATICS • WILLERING HARDWARE SEMINAR (WILDEMATION AVAILABLE ON BRUDEET) • STALE SCHEMATICS	JUST because you don't know what it is, doesn't mean you don't need one! Call Scott or John to find out more, or read last month's news let- ter to find out more about it. The COMPUTER BUG is sel- ling them. \$35.00. Mail ord- ers, please enclose \$2.50 S/H, and 6% PA sales tax if PA resident. Info. call me at 412-527-6656, Scott at
	Send \$519.85 Check or Money Order Tu: (CANADA & FOREIGN BENO \$2150 U.S.FU[.:+], (VOLUME RATES AVAILABLE ON REQUENT; THE BUNYARO GROUP	412-271-6283, or COMPUTER
<u>LTI 99 / 4A</u> I	PO BOX 53171, LUBBOCH, TX79453	BUG 5075 CLAIRTON BLVD.
		PITTSBURGH, PA 15236

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BELOW ARE TWO PIN-OUTS AND CABLE MODS FOR TWO RATHER COMMON, YET DIFFERENT PRINTERS. CREDIT FOR THE INFORMATION GOES TO WILLIAM M. LUCID, MEMBER OF THE HOOSIER USERS GROUP.



Keith G. Koch in the FEB. '87 issue of MANNERS, writes that "Pictures taken from a video camera can be fed into the system(99/4A, TMS9918A, by placing the video signal) on pin 35 of the					
IMS 9918A video chip, and then_turn off the internal_sync of the chip with the following program!					
100 CALL INIT	: *SET SYNC TO INTERNAL :	END			
11Ø CALL LOAD("DSK1.SYNC")	ISYNC LWPI WS				
120 CALL KEY(\emptyset , R, S)	LI Ø, > ØØØØ	The WEST PENN			
13Ø IF S=1 THEN 12Ø		99'ERS take no			
140 IF R=73 THEN CALL LINK("ISYNC"):: GOTO 120	JMP RETURN	responsibility			
150 IF R=69 THEN CALL LINK("ESYNC")	*SET SYNC TO EXTERNAL	for any damage			
160 GOTO 120	ESYNC LWPI WS	resulting from			
ASSEMBLE THE PROGRAM BELOW AND ON THE RIGHT.	LI Ø,≥ØØØ1	your attempt to			
*INTERNAL/EXTERNAL VIDEO SYNC	BLWP @VWTR	incorporate this			
DEF ISYNC, ESYNC	*RETURN TO BASIC PROGRAM	hardware modifca-			
ERRNBR EQU >837C	RETURN LWPI GPLWS	tion.			
GPLWS EQU ≯83EØ	SB @ERRNBR,@ERRNBR	Aside from this-			
VWTR EQU ≯2Ø3Ø	RT	WARNING, Enjoy!			
	WS BBS 32	John Willforth			

THE WEST PENN 99'ERS

% JOHN F. WILLFORTH R.D. #1 BOX 73A JEANNETTE, PA 15644

SEPTEMBER 1987 ISSUE

NEXT MEETING SEPT. 15th at the UNITED PRESBYTERIAN CHURCH OF THE COVENANT 4th and OAK Streets IRWIN, PA 15642 AT: 7:00 PM

