

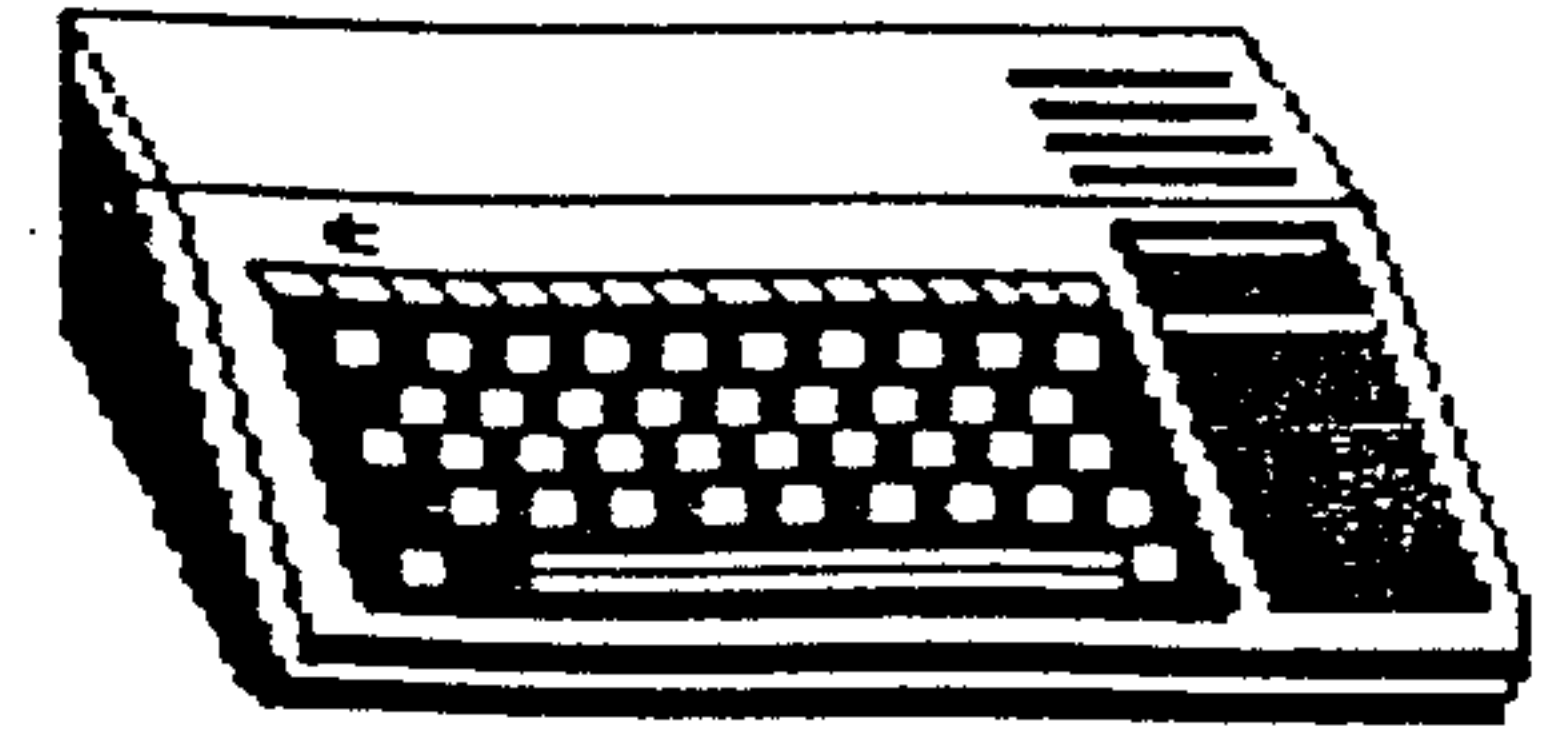


# CLEVELAND AREA

## TI-99/4A

### USER GROUPS

SEPTEMBER 1992



OFFICE	TI-CHIPS	MEETINGS	OFFICE	NORTHCOAST	MEETINGS
CO-PRESIDENT	Glenn Barnasok 238-6335	10:00 AM	CO-PRESIDENT	Ken Gladyszewski 1357-7274	1:30 PM
CO-PRESIDENT	Dinny Stockdale 1345-5239	N. Royalton	CO-PRESIDENT	Walt Ryder 921-8223	Euclidian Room
TREASURER	Lin Shaw 235-3912	County Library	Treasurer	Frank Jenkins 283-8526	Euclid SQ. Mall
MEMBERSHIP	John Parken 331-2830	State Rd. 50. of	MEMBERSHIP	Martin Smoley 1-257-1661	E.260th off I-90
	4172 W. 217th St.	Route 82 1/4mi		6149 Bryson	(South)
	Fairview Pk., OH 44126	EVERY THIRD SAT.		Mentor, OH 44060	EVERY THIRD SAT.
SECRETARY	Dennis Likens 842-9627	SEPTEMBER 19,1992	SECRETARY	Bernie Zuckerman 381-4088	SEPTEMBER 19,1992
DISK LIBRARY	Matt Andel 676-9759	† Next †	DISK LIBRARY	Martin Smoley 1-257-1661	† Next †
TAPE + MODS	John Parken 331-2830	OCTOBER 17,1992	TAPE & MODS	Frank Jenkins 283-8526	OCTOBER 17,1992
HARD COPY	Dennis Likens 842-9627	NOVEMBER 21,1992	HARD COPY	Dick Alden 1-352-9172	NOVEMBER 21,1992



# OOPS! I GOOFED

I hope that no inconvenience was caused by all the wrong dates put in the last newsletter! I will do better in future editions. Please, forgive me!

### Northcoast Swap Meet

The greatest thing about going to TI Faires, Conferences, and Swap Meets is being able to meet new friends that have the same interests/hobby you have. This Meet was no exception. When people weren't buying/selling, they were deep in discussion about their favorite topic; TI-99/4A or Geneve and what great things are coming up for us!

For those looking for a bargain, there were many on hand at the Swap Meet! The only problem was the abundance of sellers and lack of buyers. So, here is a list of sellers that still have TI equipment for sale:

- Wes Richardson - - (1-543-1148)
- Tom Miller - - - - (731-0647)
- Ken Gladyszewski - - (1-357-7274)
- Frank Jenkins - - (283-8562)
- Paul Newmeyer - - (1-896-2517)
- Bernie Stemplinski (942-4138)
- Akron User's Group (xxx-xxxx)
- Harry Hoffman - - (631-2354)
- Don Stupak - - - - (942-4643)

Don is selling a complete system: 2 consoles, PEBox w/32k, TI disk controller, and 2 SSSD disk drives, +?

If there is someone I didn't name, please let me know and the next Newsletter will print it.

Some folks didn't find what they were looking for:  
Deanna Sheridan - (333-5986) - needs a Corcomp Disk Controller,[reasonable].

Anup Sen - (261-1768) - needs a RS232 card, [ditto].  
There is still a lot of great bargains available. I saw "Howie" keyboards, 32K cards, TI disk controllers, modules, books, disk drives and much more! Give them a call.

There is more "stuff" for sale on another page of this newsletter. Anyone wanting to sell some of their extra equipment or knowing someone selling TI related things, give me the details for the newsletter. It's a good way to keep TI-99/4A gear in circulation!

Thanks for patience,



# TI-CHIPS Notes



by Dennis Likens

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The Aug 15 meeting of TI-Chips was called to order at 10:13 by co-President Glenn Bernasek. 13 members attended the meeting. Lin wasn't onboard so the treasury report was not read. MEMBERSHIPS: John reported we are holding our own. Lost a few people but we still have most of the original members. John reported that MICROCENTER will no longer be listing USER GROUPS. Matt reported the disk library requests are slow. Think maybe the summer is to blame. He did ask for some help in getting the library in order.

Matt reported that even though our check has been cashed, we still have no password for the newsletter clearing house. As reported in the past, this BBS is to download articles from other newsletters for all to see. Northcoast and TI-Chips will have 1 operator each to download these articles.

Les Kee asked about items obtained from Lima. Matt advised that they will make it to the clubs library system soon. Also, as a note, TI-Chips is reaching it's 10th anniversary. It is important for all to reflect where we've been and where we are going. The 99 is very strong and only in the past few years have we begun to find little hidden doors inside the little machines that hold lots of surprises.

It was noted that last meetings demo by Ken Gladysewski's robotics program was plagued with a problem. At first it was thought to be the clubs RS232 but it was the code used in the program not being compatible with the card.

Thanks to John Parken, the clubs 99 has XB and E/A installed and working fine. However, a member reported a problem with his system. Jack Koryta purchased a P6ram card. After installation, the system booted up fine. After securing it and booting it up again, the system reports SUBROUTINE NOT FOUND. Anyone with any idea what the problem could be should notify Jack.

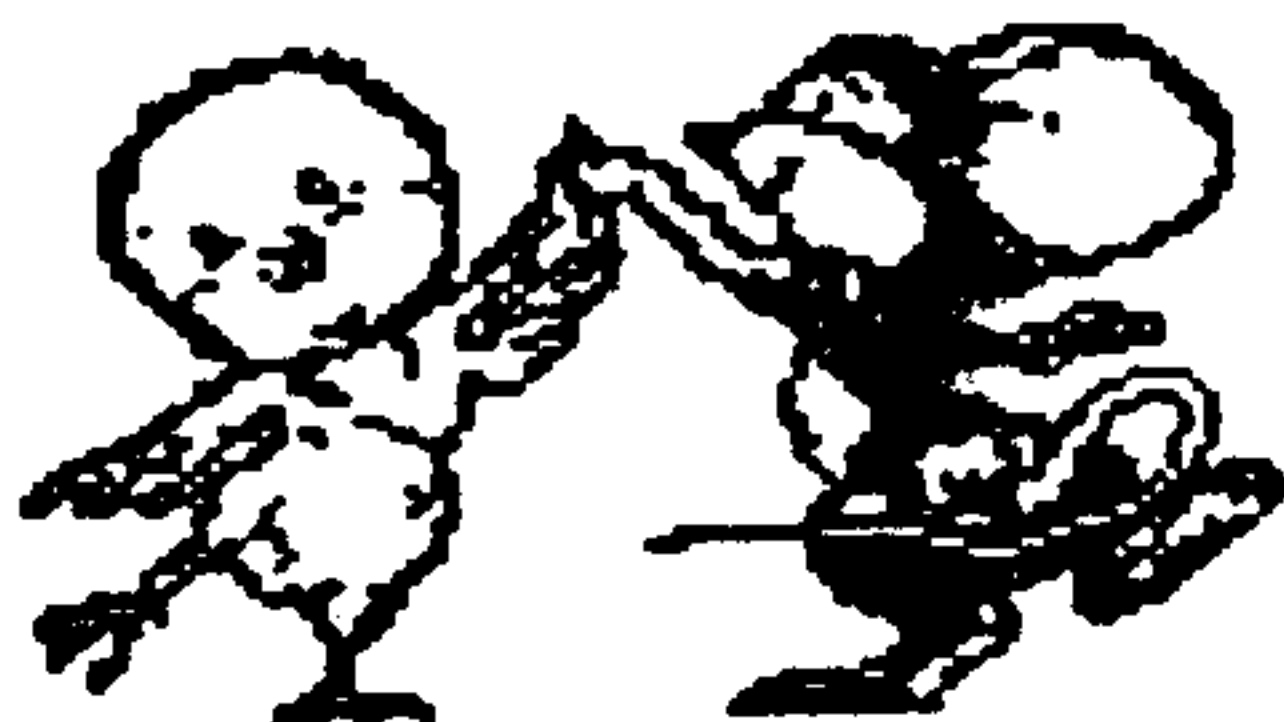
Chips newest member, Tim Bodemiller, demo'd two of his programs. Astro Mania and War at Sea. Astro Mania sells for \$9.95. You can purchase it from Ron Markus of RANCHARGED COMPUTERS or from Tim. Tim is still working on War at Sea, and will sell it if things work out with Astro Mania. After his demo was completed, all who looked on were VERY impressed. Tim even made some changes right before our eyes and re-ran the program. Both games are of the arcade type, written in XBasic. Again, hats off to the next generation of 99 programmers.

Les showed us his stuff with a short XB routine that can dump a screen to printer. This subroutine added to a program allows printing graphics to a printer.

Dan Williams informed all on hand that a previous version of his Wheel of Fortune game had some flaws in it and was handing out copies of a fix. If you have this game you should notify Matt for the update.

Well, the good news was I made it back for this meeting after missing the last 2. The Coast Guard has been keeping me on the road (just happened it all fell on the meeting days) installing computers. The bad news is this is my last entry. I have handed my wordprocessor (not a pen) to Tim Bodemiller, who volunteered to be my replacement. Being in the Military has it's good side and bad. The good was being able to locate in an area that had the TI-CHIPS club meeting just down the road from were I live. The bad is having to pull up stakes and move somewhere else. I came here from Hawaii and have a 50/50 chance of going back but looks like Petaluma California (40 miles north of San Fran) is the top choice. I should be departing sometime around or after the first of the year. This along with being unable to get my schedule on track has forced me to resign my position. I'm not sure if I'll be able to attend any other CHIPS meetings but I will be saying my final farewell on freenet. So to all who read my minutes, thanks for lending an ear and I really appreciated being able to do this job. THANKS....

No raffle at the Aug meeting but there will be one at the Sept meeting.



We're happy for your new adventure!  
God be with your family, always.  
We will miss you a lot...CHIPS



# TI-CHIPS Executive Notes



by Glenn Bernasek

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The July meeting of the TI-Chips was called to order by yours truly, and the "official" business (Treasurer's, Membership and Disk Library reports) were taken care of in short order.

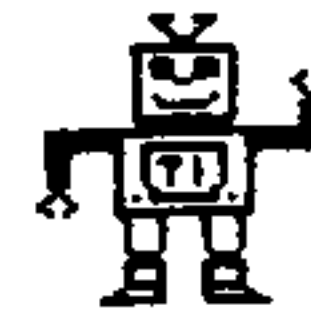
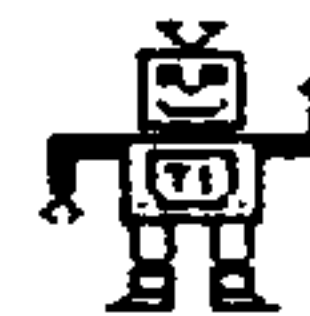
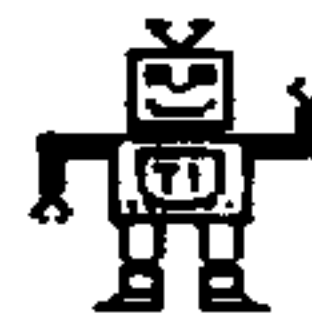
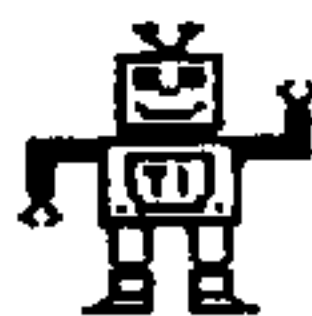
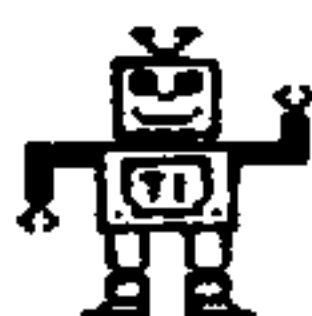
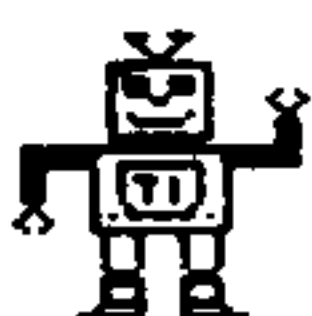
This was done in great anticipation of Northcoast 99er's Ken (I spelled it correctly this time) Gladysewski's demonstration of how he created a joystick port interface circuit which will allow the TI-99/4A the ability to control an electronic remote controlled robotron.

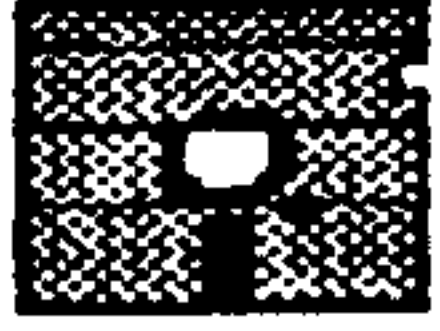
However, before Ken could begin his demonstration, I had the job of assembling the Chip's system. No problem! That was until I looked in the suit case pocket where the console would have been. You guessed it ... NOTHING! After a short moment of panic, I learned that John Farken was installing X-Basic in the club's console, and Virgil Thomason graciously brought in his TI for the club to use. Thanks John and Virgil!

After a short introduction, Ken began his presentation, and Dan Williams fired up his video camera. Ken was going to be recorded on VHS video for all posterity. Shortly into his demo, Ken realized that the RS232 connection was not responding as expected. Therefore the TI's control of the Robotron could not be demonstrated at this time. But being a trooper that he is, Ken went right ahead and gave us a detailed description of how he devised and constructed his joystick port interface on the TI.

If any thing was learned from Ken's demo about the versatility of the TI-99/4A, it was that the TI is able to perform all types of external device monitoring and control functions such as temperature, pressure sensing, burglar alarm systems, etc.. I've said it once and I'll say it again, "THE TI-99/4A IS NOT A TOY!" Thanks Ken, the TI-Chips is appreciative of your willingness to share your knowledge with us! (Oh by-the-way, I checked out the Chip's system at home, and found that everything was fully operational. It must have been those darned gremlins again!)

The August meeting of the TI-Chips will feature demonstrations of TWO ORIGINAL game programs in X-Basic by our youngest (the next generation) member Tim Bodenmiller. Tim's been with us, I believe, since before April of this year. Tim went with us to Lima, and enjoyed himself thoroughly. Look for MICROpendium reviews of Tim's work, ASTRO-MANIA and WAR AT SEA. Good luck Tim! We're proud of you. Our August meeting will also feature a demo by Les Kee of an X-Basic routine that will interact with a printer. (Les didn't elaborate, but this is why I checked out the RS232 card.)





# NORTHCOAST

## 99ers

by Bernie Zuckerman

The July 1992 meeting was called to order at 1:38 P.M. by Co-president Walt Ryder with 20 members present and accounted for. The treasurer's report was given by Treasurer Frank Jenkins covering the period from June 20th to the present. Total income for the period was \$127.81, expenses amounted to \$174.54, and the balance as of July 18th was \$2777.83. The report was accepted as read. In accordance with a previous motion, since the minutes were published in the Newsletter, it is not necessary to have a formal reading of the minutes. Accordingly the minutes of the previous meeting were accepted as published in the July Newsletter.

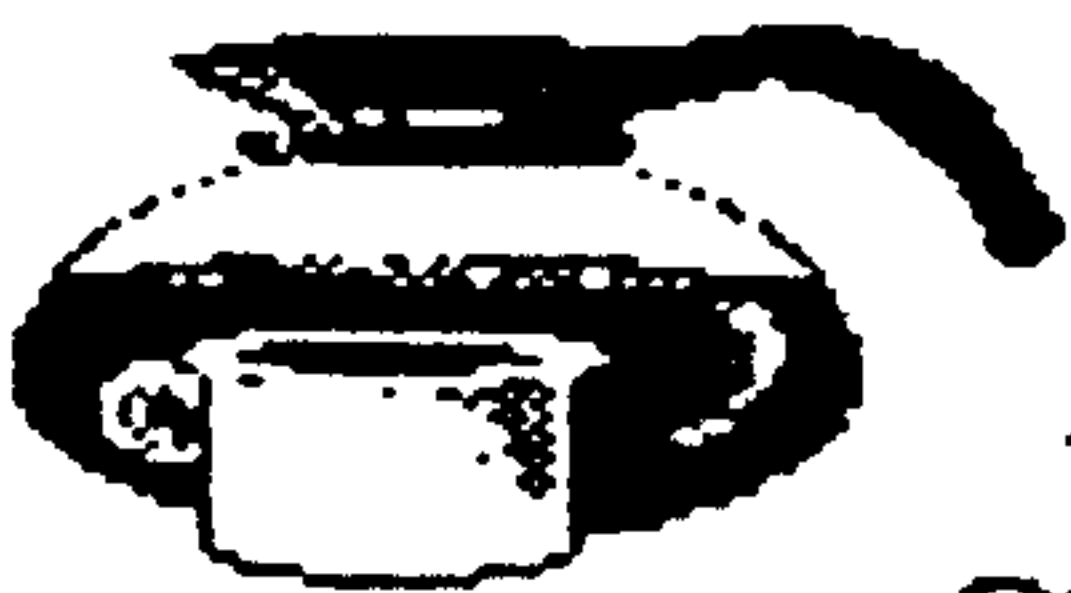
A correction was made by Walt regarding the correct date for the swap meet. The correct date is August 15 not August 17 as was reported in the Newsletter. A discussion followed as to how to publicize the new date. Chips has been advised. A motion was made and seconded to appoint a committee of one to put an ad in a newspaper announcing the correct date for the swap meet, the committee will decide which newspaper to use. The motion was passed - Ron was appointed the committee with Frank providing the funds.

Frank Jenkins reported on the change in the bank account. Of the \$2700 in the treasury, \$1200 has been deposited in a Ohio Savings checking account. When the checks and deposit slips are received, Frank will close out the Trans-Ohio account. Deanna will be glad to provide a copy of the Frag-menter program and a TIPS Manipulator program (make your own customized graphics) that she reviewed in the Newsletter. A member was having trouble loading a disk of games picked up at Lima and asked if anyone had the same problem - this was discussed.

Harry suggested that he would like to put biographies of members in the Newsletter, or any information on the history of the group - how it started and any background information. A discussion followed on using information from other TI group newsletters and joining with Chips on using the Columbus, Ohio group Bulletin Board. We had previously advised Chips that we would pay our share, but they have not yet completed the arrangements. Unless you have a password you cannot download any of the information published on the bulletin board. Deanna advised that the Computer Shopper magazine has eliminated all "classic" computer information from their magazine. Norb Sitter discussed how the Erie group is purchasing MICROpendium at reduced cost - \$15.00 per subscription if 10 or more members sign up. Since only 7 members were interested, Walt suggested that they get together and decide what they want to do.

The regular meeting was then adjourned and after an explanation from Ken as to why he was unable to give the demo he planned, Walt took over and using Deanna's Cor-Comp setup demonstrated several programs. The first was a means of encoding a list or group of records so that a keyword is required to bring them up. The second program was applying speech to an exercise program called STRETCH. The third was how Walt was able to write a program that highlights a choice from a menu. The fourth was a program that searches through records called SEARCH 4 and the fifth adjusted dimensions of a figure on the screen to conform to the dimensions found when printing the figure - this program is called SKIM2-C.

Bernie

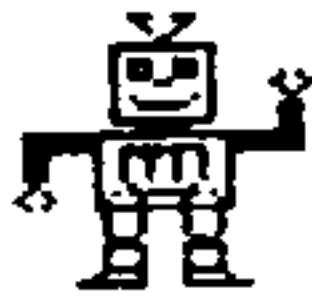


## COFFEE BREAK

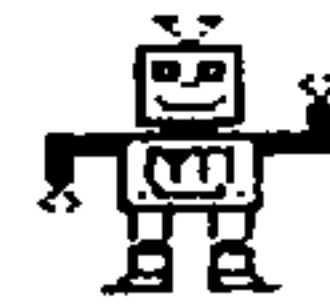
Chicago  
Faire  
Oct. 31, 1992



This Faire is comin up too soon to be ignored. Anyone wishing to go there should be making arrangements now! The Faire is put on by the Chicago TI User's Group every year. Bring Halloween costumes if you like, as there will be Social functions to attend also, (\$\$). Prices are reasonable! It's being held at Elk Grove Holiday Inn, in Elk Grove, Illinois, (a suburb of Chicago). There are other motels nearby. For more information write: Hal Shanafield Jr., 2515 Nancy Ave.; Evanston, IL 60201-1111



# COMPUTER CONTROLLED ROBOT



by Ken Gladysewski

The robot interface presented in the June Newsletter works just fine with my system, which contains a TI RS232 card. I thought all parallel ports were the same and did not try non-TI cards.

After reading an article Jerry Keisler, of the Paris, Texas 99/4A User Group, tried to use other brand parallel ports and discovered there are some differences.

As a result of Jerry's discoveries, the following software & hardware changes are recommended to make the interface compatible. In lines 280 & 440 "PIO", FIXED 1 should be changed to "PIO.CR" and on other than the Axion Parallax, a jumper is needed between pins 13 & 8 on DA15 in the universal interface (pins 15 & 10 on the port connector). This pulls up the "IN" handshake line to +5

volts thru a 1K ohm resistor.

Jerry also pointed out that reverse biased Diodes type 1N4001 (radio Shack No. 276-1653) should be connected across the relay coils to protect the transistors. Do this by connecting the Cathode (end with band) to wire Y (positive).

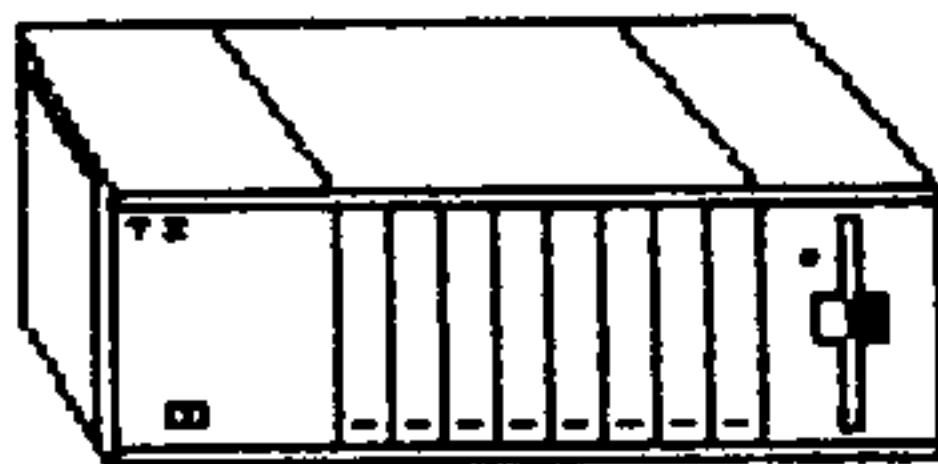
As a side note:

Has anyone figured out how to control the spare output & spare input on the PIO port, as well as the handshake "IN" & "OUT" lines via software, probably assembly. If anyone has done this or knows how to do this - please write me in care of this Newsletter.



## Computer Systems up for Sale ! ! ! ! !

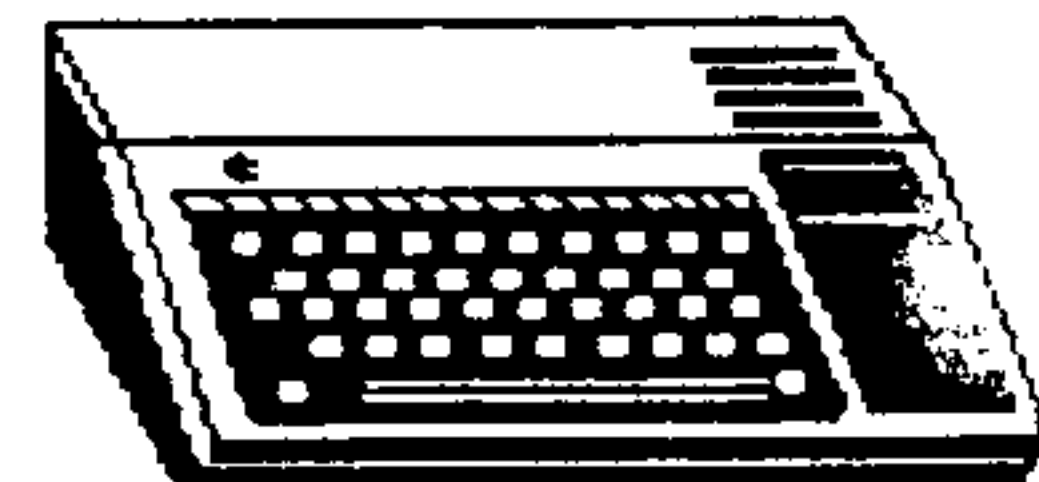
<p>TI-99/4A system with PEBox, 32K, RS232, etc. % Paul Jones 9244 Woodvale Ct. Mentor, OH 1-255-0024</p>	<p>Whole TI system ???  % Herman Pink Cleveland 531-1814</p>
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**Good stuff for sale!**

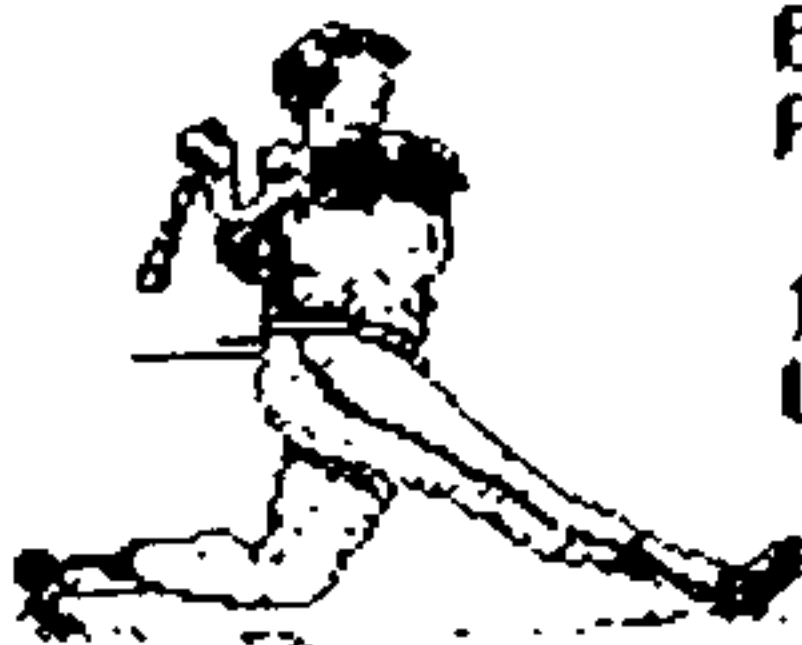
**Let me know if you**

**selling - call 631-2354**



Baseball season is about over  
Football has started already,

I'll have to wear my Brown's cap  
While getting this Newsletter ready.



# CLEVELAND LIBRARY UPDATE - July, 1992

## DISK 92000

Page 1

CHARA1FIX: This is a very unique program which allows you to alter CHARA1 files. CHARA1 files are the files used by FunnelWeb, TI-Writer and many other programs to configure the characters you see on your TI screen. This is the program by Wayne Stith that was published in the 1989 issues of MICROpendium. There are two Editor Assembler files on this disk, one is E/A Option 3 and the other is E/A Option 5. The disk also contains the source code.

## DISK 92001

TIPS MANIPULATOR: An extended basic program by Pat Powell based on a program called TIPS2PP co-authored by Ed Johnson and Bob Kaat which will read and display the file names in a TIPS file. This updated version enables renaming of the file names and will sort them. It has a built in TIP loaders so that you can have it on your TIPS work disk and load the TIPS Show programs and view the pictures. It is pre-scanned for greater speed. A loader program is also included so that MANIPULATOR can be added to your TIPS disk and the loader will allow jumping from one program to another.

Included on this disk is an archived file of TIA pictures converted from GIF pictures.

## DISK 92002

PERSONAL RECORD KEEPING IMPROVEMENTS is from Jan Alexandersson in Sweden. He has written the functions of the PRK module in extended basic and they are on this disk in merge format. He described a number of hidden "CALL" commands that are in the module. Documentation is included. The PRK module is needed to make full use of this disk.

## DISK 92003

This disk has PRK files that are part of DISK 92002. All the files would not go on one disk without archiving. Also on this disk is a tutorial by Jan Alexandersson on Sector Editing programs. There are also files on the STATISTICS module and programs which go with the files on DISK 92004. There are some programs for 80 column cards and the Geneve and also some programs which are to be used with "The Missing Link".

## DISK 92004

STATISTICS by Jan Alexandersson in Sweden similar to DISK 92002 only it has the functions of the STATISTICS module re-written in extended basic and saved in merge format. Hidden "CALL" commands are discussed in the documentation. The STATISTICS module is needed to make full use of these programs.

## DISK 92005

This disk is a demo of assembly programs which shows rotating boxes, stretching letters and bouncing balls.

## DISK 92006 and 92007

A complimentary disk from the Ti-Chips group at Lima in 1992. The primary program on it is a WHEEL of FORTUNE game written by Ti-Chips member Dan Williams and his son Rob. It was thought that this disk was messed up but the problem was that there were too many puzzles for a SSSD and the program could not find them. I arranged them on two SSSD disks and they now work OK. There are some utilities which allow editing and creation of new puzzles. It's a nice program.

There are some other programs here which are for your entertainment. One is TI-BINGO which calls the letters and numbers and shows them on the screen with a seven second delay between calls. It is review the numbers called from a menu request.

Also on these disks are PRINTER SET which is handy to send printer codes to your printer and TEXT/COPY AND TEXTREADER which allows you to print and/or read DV/80 files.

## DISK 92008

More programs and tutorials by Jan Alexandersson. There is source code for a program which calculates a checksum for any basic or XB program; it is called CHECKPGM. DOUBLEGAME and HUNT are XB games which are fairly interesting. QUADDISK is a tutorial on how data is stored in Quad density. RS232/PIO is a tutorial on the protocol used in the I/O ports and TEX is word processor program with the menu in Swedish which isn't too hard to figure out. LOUDSPEED will calculate the dimensions of speaker enclosures. SVERIGE is a puzzle game on the Geography of Sweden which should be in everyone's collection.

## DISK 92009

Two TIPS files, 1-C256X212 and 1-256X424 are on this disk.

## DISK 92010

This is BRIDGE BIDDING II which was issued by TI on cassettes. It is a tutorial on bridge bidding and is well written and informative.

## DISK 92011

Page 2

Our Swedish author, Jan Alexandersoon has written some interesting tutorials on this disk. AVPC is on the 80 column Digi card. CALENDER is on programs that calculate the date in Julian calendar format and explains the problems in calculating leap years. DISK-FILE explains how the disk drive goes about finding a disk and/or file. DM-1 and DM-2 are short tutorials comparing the various disk managers for the TI. HFDC is a lengthy tutorials on disk controllers. There are also five or six routines in XB which will help you in your programming.

## DISK 92012

This is another text file and an interesting one. It is the OPA catalog for 1992 and tells all about the current and new products for the TI. This was on GENIE and other BBSs as well. It is a smart, easy and inexpensive way to disseminate this kind of info.

## DISK 92013

A very informative and fun teaching aid about basic astronomy. It is written in game form. STARGAZER asks for you to push the fire button to advance in the display. I found that pressing "Q" does the job. The JOT program is included to help load the programs.

## DISK 92014

ARCHIE is a program (with docs) which will allow archiving of assembly programs and then being able to run these programs while they are in Archived format. Think of the space you can save on your work disk. CADMASTER is a Computer Aided Design (CAD) program in archived format. PFC is for Program File Compressor which uses data compression, a technique that makes it possible to get more data on a disk (or any other medium, e.g., a ramdisk). It will compress (or decompress) program files, that is, the files you can run using E/A option 5 or something equivalent. Files are on the average 25% smaller and still contains the same program. This compressed program file can than be run with any normal program file loader. Also on this disk are some text files discussing PFC.

## DISK 92015

@CSGDI-30 is a collection of thirty files in Character Set and Graphic Display (CSGD) format. I think these will work in the LABELER program which is elsewhere in the library and should be in your disk box. RT/ARCOM and ART/CMNTS are DV/80 files which tell how to use the COMMENTS in the Birdwell Disk Manager program. It allows putting comments into the description of a disk.

EMULATOR is a text file discussing the development of a TI emulator that will run on the IBM. CRU-VIEW and DSRDUMPER are two assembly programs. They run but I'm not sure what they are trying to say. Maybe you can figure them out.

## DISK 92016

This is a disk of music including PEANUTS, LADY OF SPAIN, and music from FIDDLER ON THE ROOF.

## DISK 92017

\*GRAPHIC\* is the first program on this disk and is a DV/80 program which can be run by DISKREVIEW. It displays a couple of graphics, one in TIA format but doesn't have any documentation or apparent usefulness.

The second program is a loader called FNTCHRLOAD, which will load one of ten character sets in DV/80 format. The loader would be easy to merge in the front of one of your XB programs which would change all of the text to graphics of your design. The DV/80 files are the character patterns which are designed using the CHAR SUBPROGRAM described in your XB manual. The loader puts these redefined characters in VDP and all the characters on the screen will show the new design until the program is stopped.

## DISK 92018

This is collection of six TIA format pictures. The filenames are QS-GUY, QS-PN, R2D2, SAILBOAT, SPACESHU AND TEMPLE.

## DISK 92019

This disk is for newsletter editors, and tinkerers. It has several tutorials by Dan Eicher about a number of subjects. 2716PINS tells how to program 25xx series EPROMS (commonly used by TI only) when your programmer only handles 27xx series. BIT is about how 1's and 0's are used in Boolean Logic and in computers to make decisions. BIT&BYTE is a tutorial on how the CPU is addressed. MOV is on how to protect your computer from power line spikes by using MOVs. SBUG explains how to use SUPERBUGII. Dan's spelling and grammar are decipherable or maybe he is a lousy proof reader. There are a number of other tutorials here by others on various subjects including a discussion on the ZENO board but you get the idea as to whether you want this disk or not.

## DISK 92020

This is a disk of DV/80 files, mostly written by Jim Peterson. There are reviews of AIRTAXI and TOURNAMENT SOLITAIRE games, discussion of programs on language skills which includes an informative discussion on writing in Japanese. There are a couple of TIPS discussions and a tutorial on programming in Basic and XB. It is another good one for a newsletter editor or for those of you who like to learn more about your TI and how it works.

Page 3

## DISK 92021

Jim Petersons TIPS#60 thru #66. TIPS#58 and #59 are on DISK 92020.

## DISK 92022

PROGWRITE1 thru PROGWRITE7, a series by Jim Peterson on programs that write programs. Also MUSICPART1 thru MUSICPART3 on how to write music programs.

## DISK 92023

Bill Gaskill wrote MONEY1 thru MONEY5, a series on money management which may be of help to you who are trying to devise a budget. TIBTIP0392 is Bill's review and comments on Marti Smoley's columns on TI-Base. It is his way of recognizing Marty's efforts in this area. TOOLS1 is a discussion by Bill about the various programs he likes and calls TI Tools.

## DISK 92024

CASH MANAGEMENT is a collection of programs issued by TI. They are financial and utility programs which are nicely written. They are protected so you can't break them for study or modification.

## DISK 92025

A collection of 98 TIPS pictures numbered 12AZ. A few picture names: B/FAST, BEER, COOKIE, and WINE. All of them are pictures of food so if you are on a diet you may want to pass this.

## DISK 92026

ARCHIE is a fairware program written by Jim Reiss which will run programs which have been archived, but not compressed. This allows many more programs to be put on a disk and is a way to get around the 127 file limit.

TIA/LINK is a program by Barry A. Traver which converts a TI-Artist Instance to assembly language source code for a CALL LINK that will put the graphic on the screen in Extended BASIC. Since it is intended for use in the standard XB graphics mode (rather than bit-mapped mode), it cannot handle large Instances, but - since it does make use of character sets 15 and 16 (that's actually 16 additional character definitions!), it doesn't "run out of ink" as fast as other programs designed to convert such Instances for use in XB.

CONSOLE is an excellent dissertation on how to trouble shoot and repair your TI console. Let's hope you never need it but it does make interesting reading.

T-SHELL, by Travis Watford, is a software package designed to provide the Extended BASIC programmer/user with some of the basic disk access utilities that TI, in their infinite wisdom, chose not only to leave out, but, in fact, to hinder. T-SHELL allows you to type disk commands at the Extended BASIC command line as though they were built in.

## DISK 92027

System V 1.0 was written by Barry Boone in 1985 to allow you to save your XB machine language programs/utilities as XB program files. Documentation is provided.

The rest of this disk contains object and source code for graphics handling utilities for the TI-99/4A and the Geneve written by Jan Alexandersson in Sweden.

## DISK 92028

This is an educational disk about astronomy. There is one quiz about the planets that is sure to help you remember the planets of the solar system. Great for the kids and I must admit I enjoyed it too.

## DISK 92029

This disk is those familiar with assembly language. There is a BUBBLE program in XB and Assembly which is used as an example in this tutorial. Most of it is written by Jan Alexandersson in good english. The following is from the HYBRID file which is some of the documentation:

"HYBRID PROGRAM XB AND AL

There are several ways to hide an assembler program in an Extended Basic program. I will use BUBBLE/O from PB 91-2 as an example but you can choose any file. I shall describe three different programs that can do the conversion:

- ALSAVE by Todd Kaplan which is public domain (see Micropendium sept 90 page 17)

- SYSTEX by Barry Boone (see DISK 92027 for docs)

- LOADASMBAS by B[r]je H[il]l (see PB 84-1)"

The rest of this file describes how to use these programs.

## DISK 92030

The Chips Group has been giving out free disks at the Lima show and since many of you do not attend this disk contains these programs. Most of them are short utilities which would be easy to use in your own programs or for use as is. Some are games or puzzles. Biorythm is also here which most of you have seen before. I added one which will print your biorythm as a graph for any length of time you wish. Programs include DELETER, FINI, JUSTFORFUN, KEYMATRIX, TINYCAT, TINYCAT etc.





by Harry Hoffman

# CHICAGO TI INTERNATIONAL WORLD FAIRE

When: October 30-31st      Where: Elk Grove Holiday Inn  
 1000 Busse Rd. (Rt. 83), Elk Grove Village, Illinois.  
 Friday, the 30th will be a get acquainted Social Mixer  
 from 8 PM to Midnight. Admission: \$5.00 ea.  
 Sat., the 31st @ 9:00 AM - 5:00 PM will be the vender  
 exhibits and seminars (all day). Admission: \$4.00 ea.  
 Sat. evening @ 7 PM to Midnight, a Banquet Halloween  
 party will be held. Costumes are welcome (computer  
 related would be nice), but not a must! These banquets  
 are usually very nice and a great way to meet new old  
 TI friends, and notables! Reservations are required,  
 and the admission is \$15.00 ea. Write to:

Hal Shanafield Jr.  
 2515 Nancy Ave.  
 Evanston, IL 60201-1111

Or call at: 1-708-864-8644

## MILWAUKEE FAIR

Sunday, November 1st, at the Quality Inn Motor Lodge,  
 across from the airport, about an hour and a half North  
 of the Chicago Faire. Write to:

Gene Hitz  
 Milwaukee Area 99/4A Users Group  
 4122 North Gleway  
 Wauwatosa, WI 53222 or,

see a representative at Chgo.

This is a great getaway weekend event for people who  
 love their TI and want to meet other Tiers. We will be  
 sending for more information about the area for the  
 wives and kids. It probably will take a week or so.  
 Feel free to call Harry or Nina about what we found  
 out.



Have a happy and safe Halloween!

Watch out for the Goblins,

Gremlins and especially watch

the **CHILDREN!**

RETURN ADDRESS:  
CLEVELAND AREA 99/4A USER GROUPS  
c/o HARRY HOFFMAN  
3925 TROWBRIDGE AVENUE  
CLEVELAND, OH 44109



CHECK YOUR EXPIRATION DATE.  
THIS MAY BE YOUR LAST ISSUE!

FIRST CLASS

FIRST CLASS

FIRST CLASS

FIRST CLASS

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