

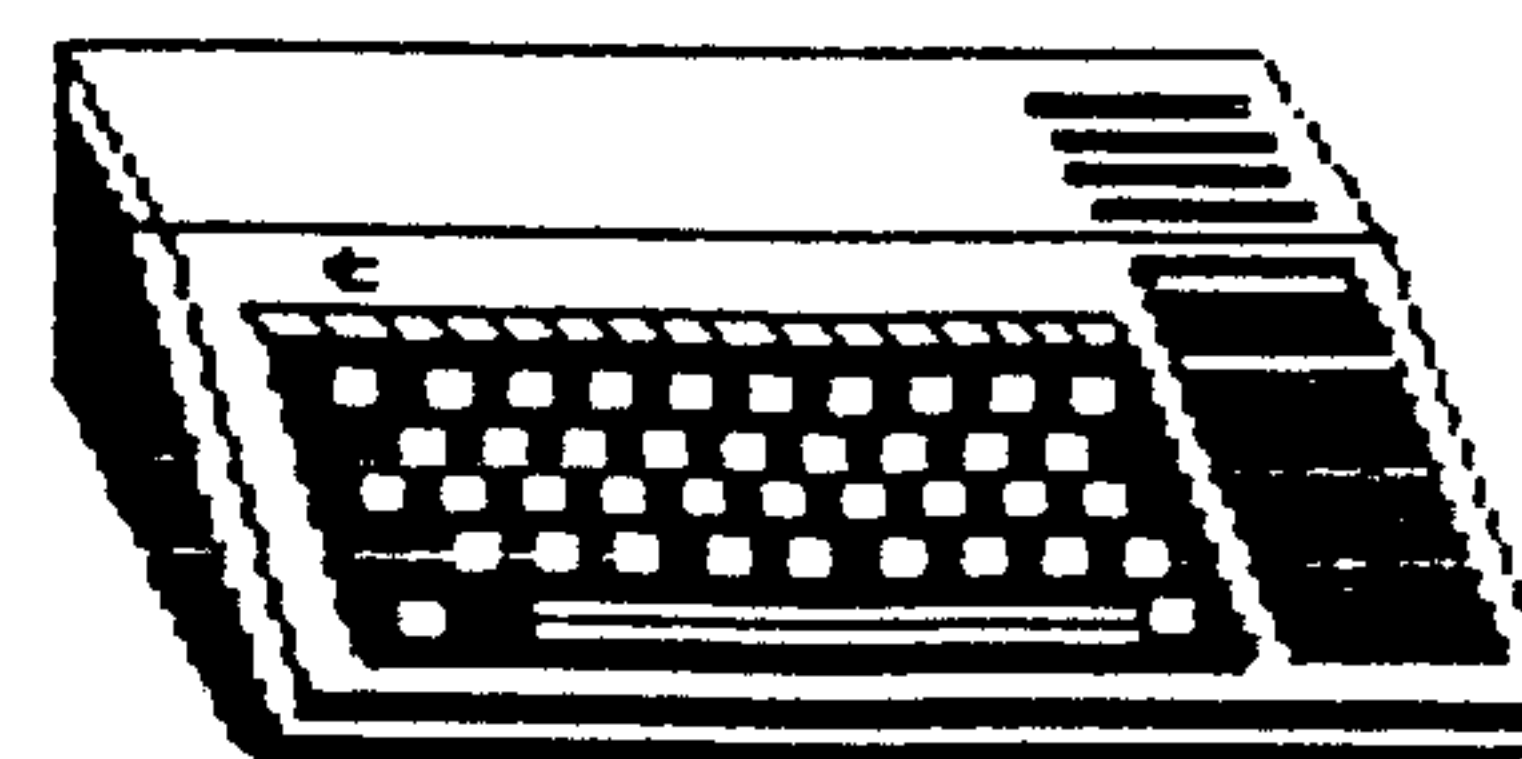


# CLEVELAND AREA

## TI-99/4A

# USER GROUPS

MAY 1992



OFFICE	TI-CHIPS	MEETINGS
CO-PRESIDENT	Glenn Bernasek 238-6335	10:00 AM
CO-PRESIDENT	Dinny Stockdale 1345-5239	N. Royalton
TREASURER	Lin Shaw 235-3912	County Library
MEMBERSHIP	John Parken 331-2830	State Rd. SO. of
	4172 W. 217th St.	Route B2 1/4mi
	Fairview Pk., OH 44126	EVERY THIRD SAT.
SECRETARY	Dennis Likens 842-9627	MAY 9 (NEWDATE)
DISK LIBRARY	Matt Andel 676-9759	2:30 P.M.
TAPE + MODS	John Parken 331-2830	JUNE 20, 1992
HARD COPY	Dennis Likens 842-9627	JULY 18, 1992

OFFICE	NORTHCOAST	MEETINGS
CO-PRESIDENT	Ken Gladyszewski 1357-7274	1:30 PM
CO-PRESIDENT	Walt Ryder 921-8223	Euclidian Room
Treasurer	Frank Jenkins 283-8526	Euclid Sq. Mall
MEMBERSHIP	Martin Smoley 1-257-1661	E.260th off I-90
	6149 Bryson	(South)
	Mentor, OH 44060	EVERY THIRD SAT.
SECRETARY	Bernie Zuckerman 381-4088	MAY 9 (TI-CHIPS)
DISK LIBRARY	Martin Smoley 1-257-1661	Reg.Meet.Canceled
TAPE & MODS	Frank Jenkins 283-8526	JUNE 20, 1992
HARD COPY	Dick Alden 1-352-9172	JULY 18, 1992



### From the Editor's Desk:



This has been a sad and frustrating week for the Hoffmans, and if any one is interested, just ask. If the Newsletter is out on time, it is a miracle and I will thank GOD for it!

The LIMA Conference is at hand and both clubs have cancelled their regular May meeting and TI-CHIPS has moved their meeting back one week, to MAY 9, 1992 at 2:30 PM, to accommodate the NORTH COAST UG, since they are used to meeting in the afternoon. CHIPS meets at the NORTH ROYALTON COUNTY LIBRARY, located 1/4 mile south of Rte.82, on State Rd. (Rte.94). Easy access to Rte.82 is via Rtes. 71 or 77. State Rd. is midway between these two highways.

In the Newsletter are four pages of reviews by Deanna Sheridan, a list of Hamfests given to me from Les Israel and Bruce Rodenkirch, an agenda of the Lima Conference, stuff for sale, and invitations everywhere to North Coast UG to attend TI-CHIPS May meeting. Deanna really saved the day by giving me two extra pages since the last meeting. I know there are more talented people out there than the regular contributors! We could try to get some people started by submitting biographies of how you came to start using your TI, what equipment you have, what use you get from your machine, and what you plan to use it for in the future. This idea is not original, but gleaned from several Newsletters I have read. To start it off, my wife bought me a TS/1000 computer from PIC-n-PAY for \$28.00. After taking 2 of them back, I finally got one that worked right! It was a birthday present and the first

computer ever! I sure loved playing with this new toy! The only drawback was that all the neat things on the TV (monitor) could not be printed out. In 1984 I bought my TI from a friend at work who had bought 3 TI's from KMART for \$50.00 each and had one too many! It was the basic console, manuals, and two joysticks. I went to KMART and bought everything that was available, which wasn't much more than a few games. Another guy at work, Otto Hagel, told me that his son belonged to a User Group called TI-CHIPS and if I wanted to upgrade my computer, that was the way to go. I joined CHIPS when Bernie Gallagher was President and Tom and Judy Thalner were our resident dealers and members. Mrs. Hagel was in charge of the cassette library and admittedly told me that she knew nothing about the computer, but was doing this in the interest of her son. What dedication! I found a couple of GM cassette recorders at Gray Drug that were on a sale table for \$9.95 each and I was in business! Purchasing adapter cables from Tom and borrowing a bunch of tapes to copy from CHIPS was the beginning of a long process of upgrading. My system, when working, has a PEBox, w/2 DSDD disk drives, a laeq Ramdisk, an 80 column card, RS232, printer, monitor and whenever possible a second system. Getting involved is the best thing I could have done, because it helps me to understand this machine much better, and someday I hope to learn programming. If possible, it would be great having 30 or more BIOS sitting around, waiting to be published in this Newsletter. I'm sure that many of you would like to see how others are using their computers, and they would love to know what you are doing with yours! HOW ABOUT IT FELLOW MEMBERS!



# TI-CHIPS NOTES

By Glenn Bernasek

Much was accomplished at the April meeting of the TI-CHIPS after the membership in attendance voted unanimously to waive the reading of the Minutes for prior meetings in that the Secretary's Minutes are published in the monthly newsletter. (This will allow such needed extra time for discussions and demonstrations.)

Our Treasurer, Lin Shaw, reported that the Chips have a balanced account, and John Parken, our Membership Chairman, reported that we are holding our own in the membership department.

Matt Andel had made up the usual packet of ten filled disks to be raffled off. However, as you probably notice by the name of the author of these notes, Dennis Likens was unable to attend the April meeting, and therefore the monthly raffle wasn't held.

Getting right down to business, the TI-CHIPS approved the following motions.

1. It was unanimously approved to purchase 100 DSDD 5 1/4 inch disks from RANCHARGED COMPUTERS to be used for producing copies of the 1992 CHIPS DISK which will be given away during this year's conference at Lima.
2. The TI-CHIPS authorized the purchase of high quality video tapes, through RANCHARGED COMPUTERS, to be submitted to the Lima user group for copies of videos taken during the conference. Since these tapes tend to be copied several times, it was the opinion of the membership that only a high quality tape would be able to hold up.
3. Following a report by Harry Hoffman that the National TI-99/4A Newsletter Article Clearing House BBS, operated by the Central Ohio Ninety-Niners, Inc., is on line, John Parken made a motion that the TI-CHIPS send in the \$30 membership fee, and get on line with this service. John's motion was seconded and unanimously approved.

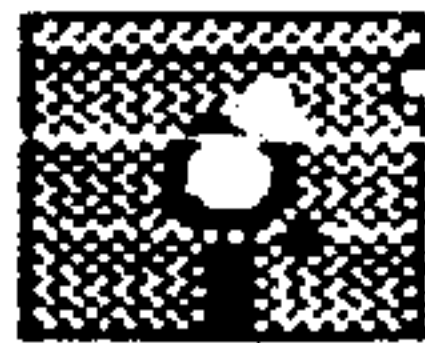
Les Kee provided the Chips with a demonstration on a CHARAI editor routine. This is another excellent routine that allows the user the ability to read, modify and "print" to disk a runnable DV/80 file which will redefine the ASCII characters displayed on the screen into "customized" formats.

Yours truly attempted discussions and/or demonstrations on three items. First was hint #3 regarding the problems associated with the iffy contact problems of the non-standard expansion cards placed in the PEB. I know we've tried the "Thicken-The-Foam-Strips-Under-The-PEB-Lid" and the "Tie-Them-Down-With-Rubberband" tricks. Well this time I suggested a thin wooden wedge (ie. a clarinet reed) to hold the thin cards in place in the WIDE PEB slots. (It seems to work fairly well for me so-far.)

I then ran a short demo of the 1992 TI-CHIPS disk which includes an updated version of Dan and Rob Williams' WHEEL-OF-FORTUNE game and several "Two-Liners" of mine such as TEXTREADER, TEXTCOPY and PRINTERSET. FREE copies of this disk will be available to the CHIPS' and any NORTHCOAST 99ers who might drop by for a visit at the May 9th meeting.

Everything was going fairly smoothly until I tried to demonstrate Mauro Tomietto's SIDEWRITER 2.1 utility. This is an excellent utility that will dump MULTIPLAN spreadsheets and TI-WRITER DV/80 files sideways to an Epson compatible printer. It was explained that not only was SIDEWRITER fast and easy to use, it also printed REAL lowercase letters sideways on the paper. The only trouble was when I tried to show what I was talking about to the Chips. I hadn't run this program for quite a while, and therefore was unable to properly set up the configuration menu! Once again the word ASSUME divided it's self up very nicely. All because I ignored my intuition that was telling me to practice SIDEWRITER before the meeting. This time I WILL practice, I promise - SIDEWRITER will be demonstrated successfully during the May 9th meeting!!!

Don't forget, the May 9th meeting will start at 2:30 PM. See you then.



# NORTH COAST 99ers

Bernie Zuckerman - Secretary

The meeting opened at 1:30 P.M. with Co-president Walt Ryder presiding. Due to the absence of Bernie Zuckerman, the minutes were accepted as read from the Newsletter. The treasurers report was not read at this time because Frank Jenkins could not make it to the meeting.

Ken Gladyszewski spoke with Glenn Bernasek about Glenn's proposal to show support for the TI/IBM owners. A long discussion followed. The consensus was that there already was a sizable informal IBM SIG going on and we really need not make this an official part of our TI club.

TI-CHIPS invites North Coast members to their meeting on May 9th, at 2:30 PM, as CHIPS changed their meeting date because of the LIMA FAIRE. The meeting is at the NORTH ROYALTON COUNTY LIBRARY, 1/4 mile South of RTE 82, on STATE RD (RT. 94), on the West side of the road. A motion was made and passed to cancel the North Coast MAY meeting, and anyone wishing to attend a meeting can go to the TI-CHIPS meeting on MAY 9th. The next North Coast meeting will be on JUNE 20, 1992.

Harry Hoffman announced that TI-CHIPS sent a check of \$30.00 to the Central Clearing House for Newsletters. There was a motion made and passed that N. Coast share the costs of belonging to this BBS for one year. We will decide later if we wish to continue or not. Irwin Hott is the SYSOP, and the Columbus group is sponsoring the initial set-up.

Ada and Ron Markus brought goodies and coffee to be shared with the group. Ron showed how our TI computer can print out pictures and fonts as good as the higher priced machines! Their fonts cost as little as \$25.00, while we can get 6 or more for \$15.00. Thanks Ron and Ada for the delicious bakery and coffee!!

Harry demoed how to set-up an Horizon Ram Disk, using ROS 8.14 by DPA (Gary Bowser) and John Johnson. It sells for \$10.00 from Bud Mills. Check with Ron Markus. He may have them on hand!

DON'T FORGET: MEET AT TI-CHIPS, MAY 9, 2:30 PM!

MOM



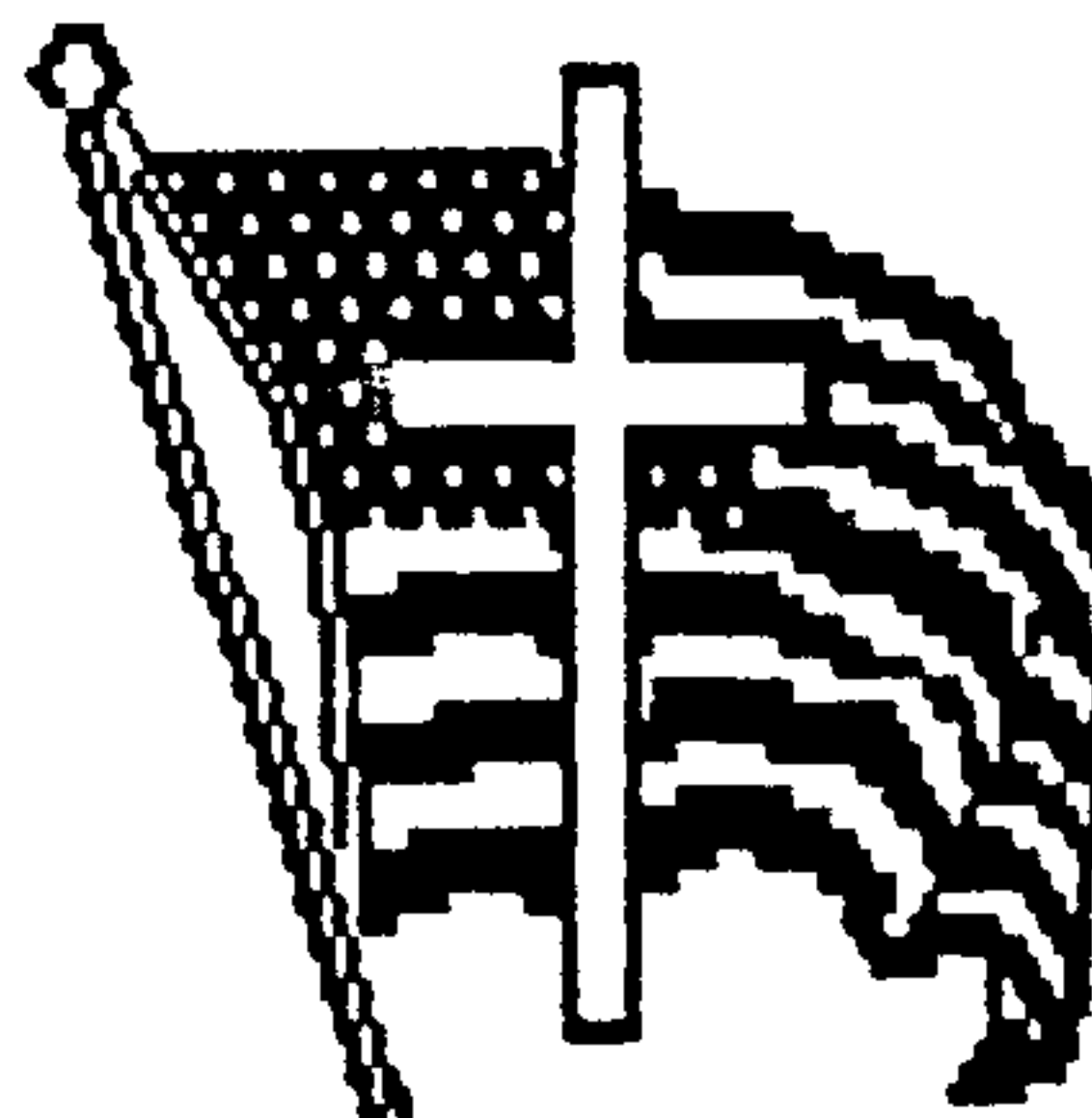
MOTHER'S DAY

MAY 10, 1992



REMEMBER MOM TODAY

AND EVERY DAY OF THE YEAR!



MEMORIAL DAY

CELEBRATED

MAY 25, 1992

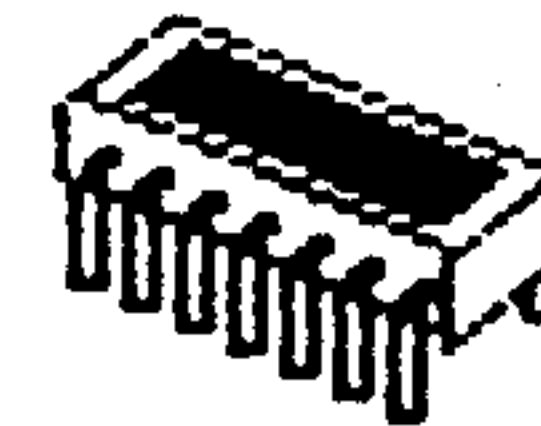
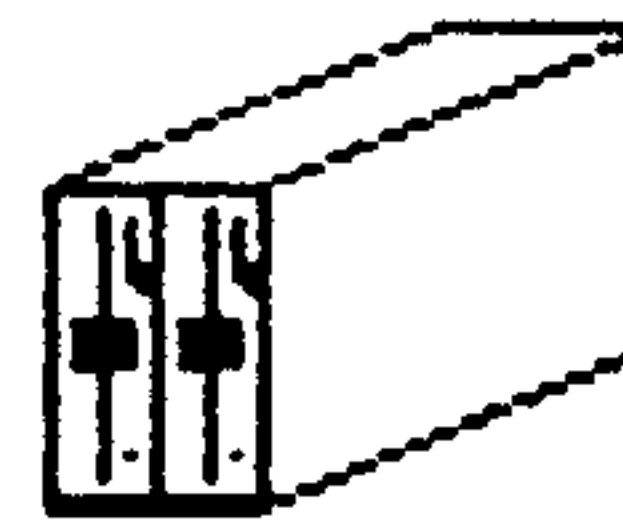
PRAY FOR LOVED

ONES THAT HAVE PASSED AWAY!





# Hamfests and Computers



Here is a list of Ham Fests that were given to me by members of separate clubs. Les Israel, from TI-CHIPS sent me a list, and Bruce Rodenkirch of NORTHCOAST U6 gave me a list at the meeting. Thanks to both of you! I have no addresses for some of these, but I will list them and you can call Jack Goldfarb at 371-1981 for information, or to see if the American Radio Relay League gave approval, or if there are any cancellations.

MAY 10 - Medina 2 Meter Group, at the Medina Community Center, 735 Lafayette Rd., Medina, OH.

MAY 17 - Triple States Amateur Radio Club, Wheeling, WV.

MAY 17 - Lorain County ARA, Oberlin, OH.

MAY 24 - 20/9 ARC, at the Canfield Fairgrounds on Rte.46 just south of Rte 224. Canfield, OH. Call Don Stoddard, 793-7072.

JUNE 7 - Butler County ARA, at the Butler County Farm Show Grounds. Ten miles east of I-79 on Rte 68 between Evans City and Butler, PA. Call Kurt Schreiber, at (412)859-3969

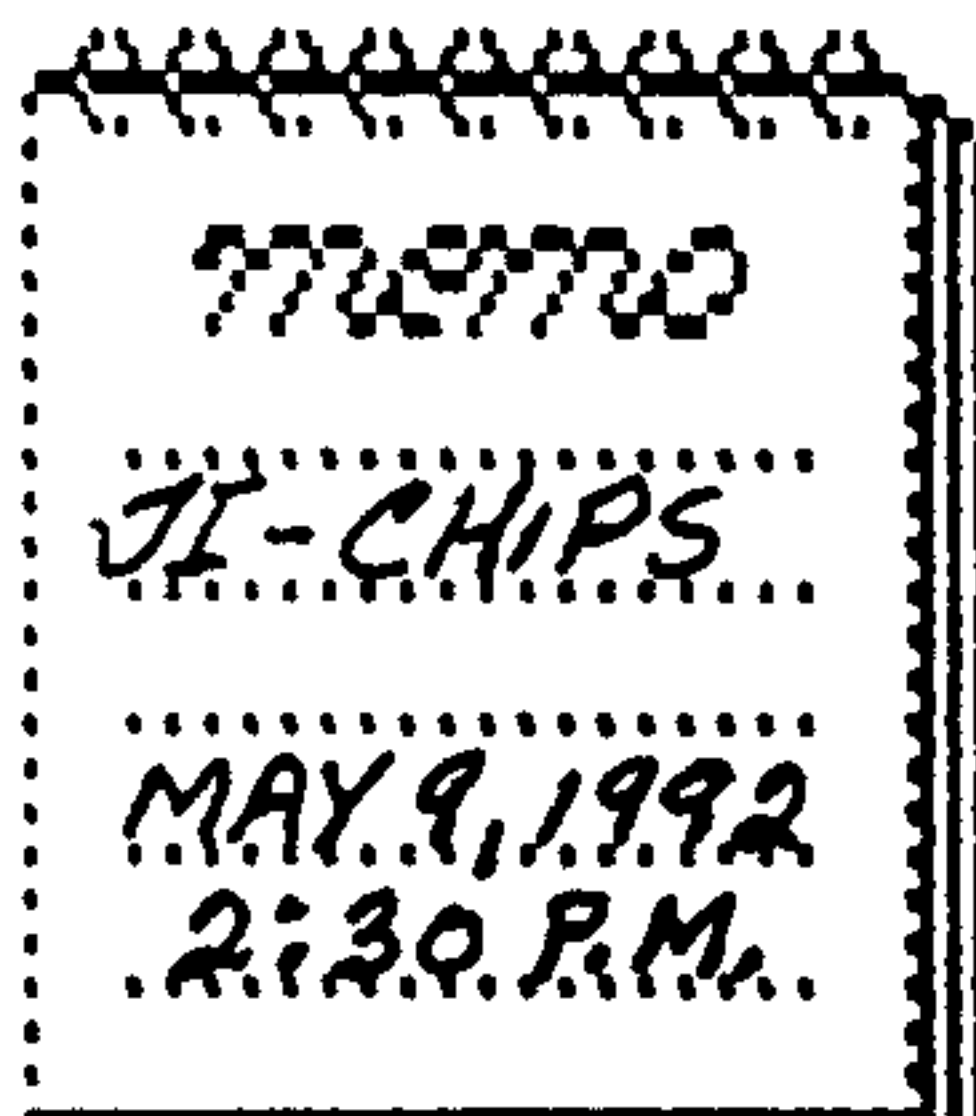
JUNE 14 - Goodyear Hamfest at Goodyear Wingfoot Lake Park. Entrance is 0.6 miles south of Suffield, OH which is at the intersection of Rte 224 and Rte 43, SE of Akron. Call Bill Dunn at 673-8520.

JULY 12 - Pittsburgh Hamfest at the Northland Public Library, 300 Cumberland Rd., about ten miles north of Pittsburg on Rt.19 North (McKnight Road). Take Exit 3 from Turnpike, south on Rt.19 thru Wexford, left on Cumberland Rd. at 2nd traffic light after Chucky Cheese. Call Don Jackson, 8 Dale Ave., Bradford Woods, PA 15015.

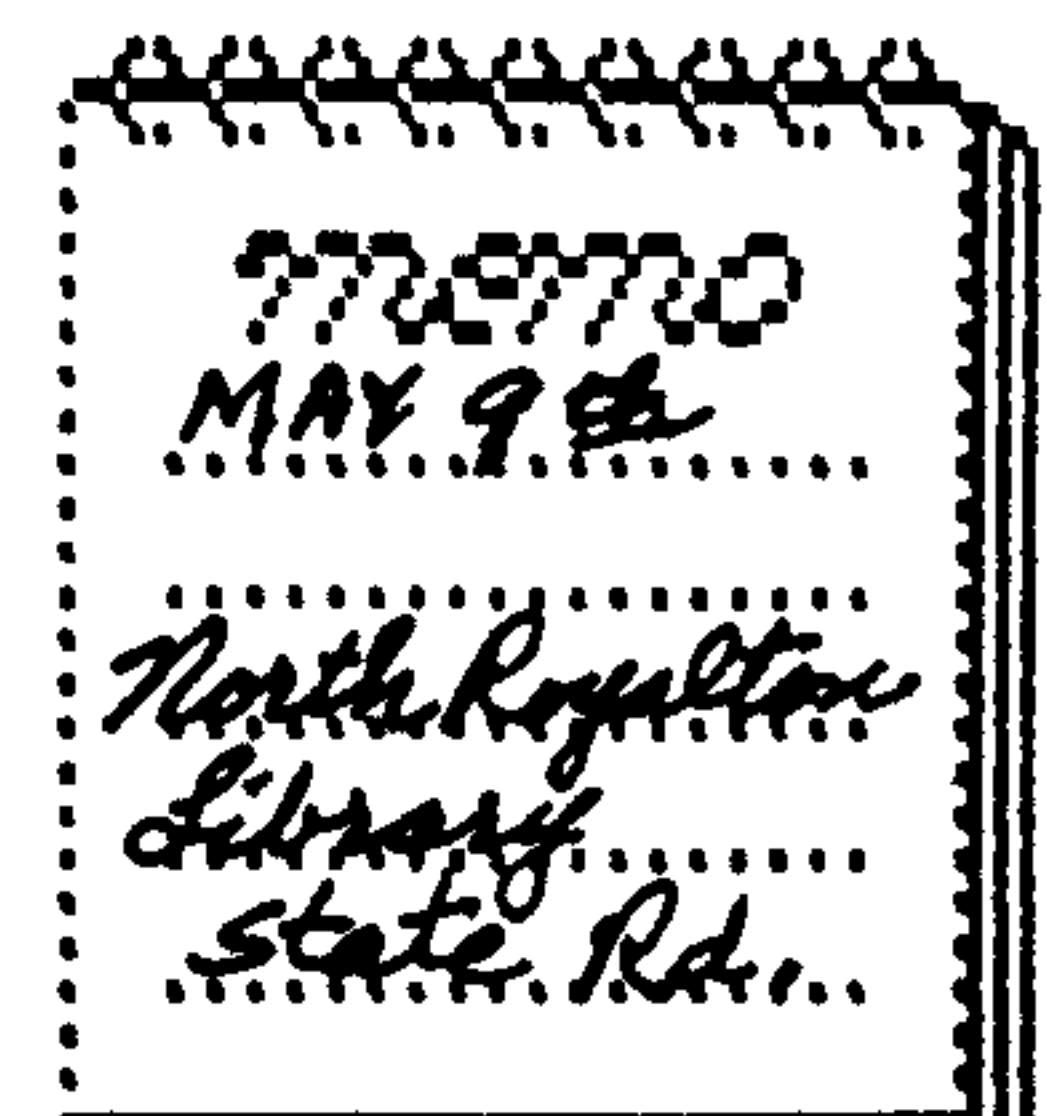
JULY 18 - NOARS ARC Hamfest, Wellington, OH.

JULY 26 - Ashtabula, OH Ask Les or Bruce for details of clubs without addresses.

There are more on the list, but they can be entered in a later issue of the Newsletter. There is no guarantee of finding anything for your TI, but that's the fun of going to these Hamfests. There is computer stuff available and even if it's not TI, you may be able to use a cheap disk drive or printer with your system!



TI-CHIPS invites the NORTHCOAST Users Group to it's May 9, 1992 meeting. Both groups cancelled their regular May meeting so we could go to the LINA FAIRE.



Please come, as we would like to get acquainted!

# DEFRAGMENTER

REVIEW BY

Deanna Sheridan

Northcoast 99ers

Defragmenter is an assembly language program to defragment all the files on a disk and arrange them physically in alphabetical order. This allows the disk controller to find and load a file or program faster. If the diskette cover is removed, a diskette looks very similar to an 45 rpm record. When the first program is placed on this diskette, the data is written in contiguous sectors. As additions are made to files (especially word processing or data files), the next writing of data will have to skip over other files that have been written to the disk to find free sectors to place the data. Imagine how your record player would sound, if the needle had to jump over grooves to find the next verse of a song. This, in effect, is what happens to data on a diskette.

As the computer has to search through more data and skip around to retrieve or save it, it causes the computer to lose efficiency and cause additional wear and tear on the drive heads.

Prior to Defragmenter, the only way to clean up a disk would be to file copy, one by one to a new diskette. Anytime a disk catalog is called up through Punnelweb, files with an "\*" are fragmented. This is as close as you will get of a "picture" of how badly files are scattered on the diskette.

Using Defragmenter is very easy, and rather speedy. It should NOT be used on double-sided QUAD density diskettes, or on a hard drive. It will handle everything from 1440 sectors on down. The program loads from E/A3 and asks which drive you wish to defragment. It will then give a catalog of the disk which shows:

	Free	578	Used	142
Filename	Size	Type/No	7	P
1 ARTICLE	35	DIS/VAR	80	2
2 ARTICLE_I	29	DIS/VAR	80	5

3 LASER	1	DIS/FIX	0	3
4 LASER2	15	DIS/FIX	128	4
5 LASER_I	19	DIS/VAR	80	6
6 NEWS	11	DIS/VAR	80	8
7 SESSION	30	DIS/VAR	80	7

Each line of the disk catalog consists of, from left to right, the file number, file name, size in sectors, file type, and PDR sector number. The last one is the disk sector on which the file information resides. Its presence tells how close the disk is to being in alphabetical order. If it's already in alphabetical order, the numbers will be in numerical order down the catalog. For fastest access, they would start with 2 and increment by ones. As you can see from the above, this disk is not in the best of order. After defragmenting, the numbers will be in order.

If defragmenting a diskette that has a file that will be written to often, the first time data is added, the files are again fragmented. Thus, the program gives the option of choosing a file that will most likely be added to and a file that will most likely shrink, and additional space is reserved so that the diskette will not lose its order quickly.

If you plan to add files at a later time, free space can be allocated in the FAT (file allocation table), so that the new PDRs will be placed near the beginning of the diskette and not slow down disk searches. All of us have had diskettes with a bad sector "0" and were unable to read or recover the data on the diskettes. Defragmenter doesn't care and can optimize the disk.

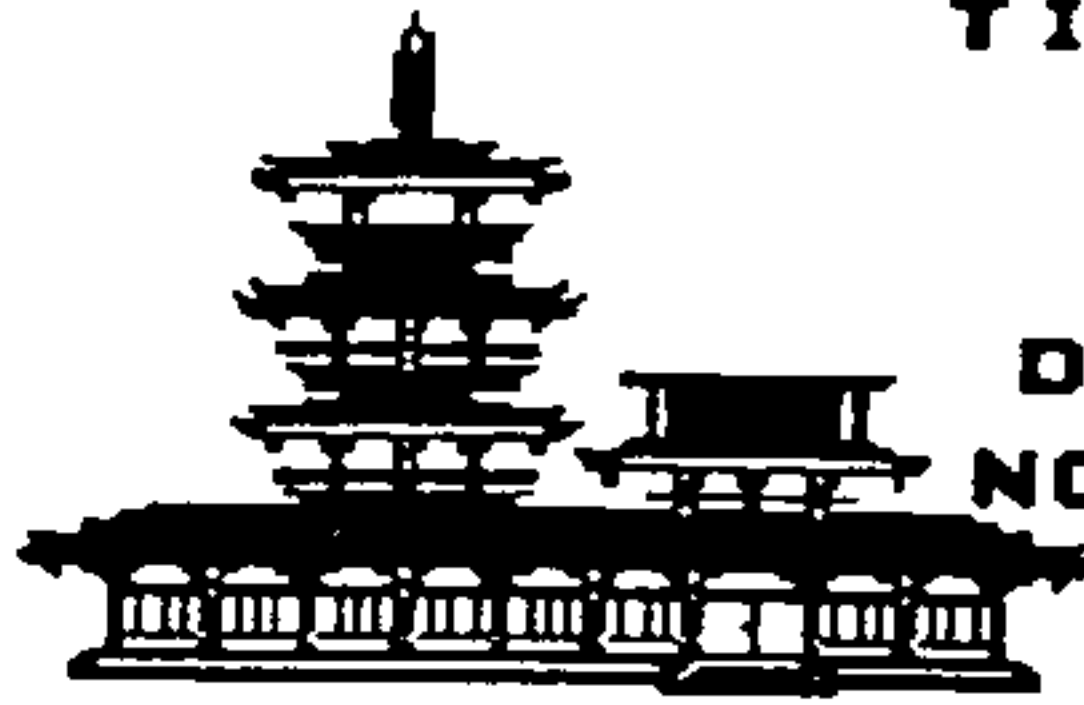
This is another utility the TI world has needed for a long time, and we owe our gratitude (and \$\$\$) to Mark Schafer, 539 Whitaker St., Morehead, KY 40351. Mark is asking \$6 for use of the program and \$7 if you need for him to supply the disk and mailer.



<- FROM THIS <-> THIS ->







TI-PEI (MAHJONGG)  
FOR THE TI  
REVIEW BY  
DEANNA SHERIDAN  
NORTHCOAST 99ERS

If you enjoy Tournament Solitaire by Bill Reiss, you are sure to get hooked on his latest endeavor, TI-Pei. This is an easy, but addictive board game. The board consists of 144 individual tiles of like pairs. These tiles are stacked in layers from the center out. To win the game, all 144 tiles must be uncovered and matched.

The rules are extremely simple, "legal pairs" are combinations of two like tiles that are not bordered by any other tile on either the left side, the right side, or both and left and right side. All of the tiles on the left and right borders of the pile, on each tier, of the pile, can be selected.

In this version, the tiles are very simple graphics. In the original Mahjongg, they are various Chinese symbols. On the version I downloaded from my BBS for my DOS machine, there are literally hundreds of tile patterns which can be loaded in for variety.

The menu has an option for "load new setup" and the documentation explains that with a pile editor (evidently not yet released), you, too, can create new tile patterns for our version.

In comparing it in other respects to the DOS version, it would be nice if there was an option to save the games won. I am not sure if it would be impossible because of memory limitations, but a timing device to tell how long it takes to play a game which would be included in the scoring routine.

The last game can be replayed, if you find a board that is particularly challenging. Otherwise, each time you play a new game, the combination of tiles will change, and no two boards are alike.

The program supports both the ASGARD mouse and 9640 mouse instead of the keyboard to move the tiles.

The program has a "cheat" feature so that you can find combinations that you have overlooked. This really doesn't detract from the challenge of the game, since you will probably use this long after the fate of the game has been decided. This is a "thinking" game like checks and chess and anyone who likes that type of board game, should be able to have hours of fun playing TI-Pei.

The program is \$14.95 from Asgard Software, P.O. Box 10306, Rockville, MD 20849.

---

PROGRAM FILE  
COMPRESSOR  
REVIEW BY  
DEANNA SHERIDAN  
NORTHCOAST 99ERS

This is a utility for your MUST list. Who says we don't have everything they have over in the DOS world. Sometime ago, I found a program that would archive executable programs and compress them at the same time and then allow them to run from the archived mode. Program file compressor does the same thing for the TI.

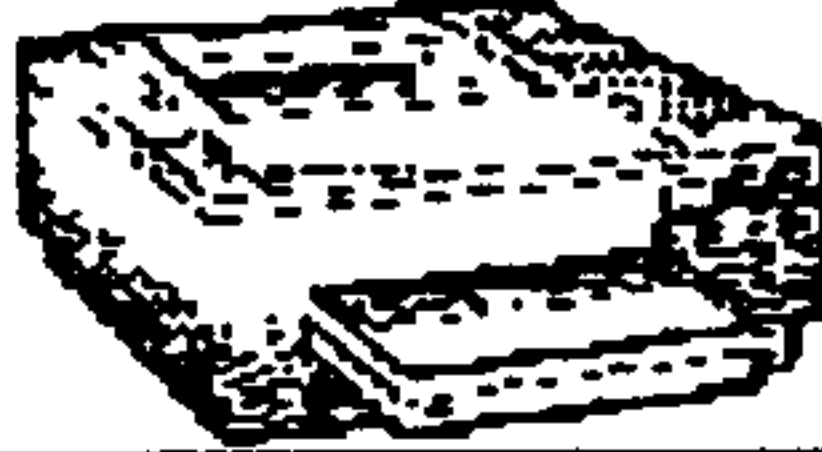
It is extremely simple to run. Simply choose the EA5 program you would like to compress and it takes over. It knows if there is more than one file involved and goes through all of them. The compression on a 33-sector EA5 program can save between 1 and 10 sectors per section. It will NOT work on those 34 sector EA5 programs that have been converted from modules for the GENEVE or GRAM device. I only found one program that I tested that would not run

after compressing, and that was the DM1000 which comes with Funnelweb.

I tested PagePro and found that I saved a total of 25 sectors...almost the space of one file. I keep my favorite programs and utilities on the first drive of my RAM DISK. Invariably there are some I would like to squeeze on and end up without the room. I only had 17 sectors of free space on this drive until I put Program File Compressor to work. Now I have 61 and have not yet converted all of the files.

We owe much thanks to Koen Holtman, Hillenrakerkamp 6, 6071 EC Swalmen (The Netherlands). The program is public domain. I downloaded it from Genie and will make sure it gets into the clubs' libraries post haste.

## LASERS AND THE TI



DEANNA SHERIDAN  
NORTHCOST 99ERS

With the cost of laser printers falling almost daily, you may want to investigate the feasibility of using one with your TI. I have looked for a comprehensive review of laser printers in newsletters for the past two or three years, and not one article has appeared.

You have all seen what Marty Smoley can do with his laser printer and the TI, but most of us WOULD NOT go through what Marty does to get his printouts. Since none of the TI software has built-in printer commands for lasers, Marty has to write his own.

I just purchased a HP Laserjet IIIp and thought that my experience might help someone else decide if there might be a laser in their future also. I knew that you could print text from the TI through funnelweb, but was concerned that I would not be able to use my graphic programs. The laser prints at 300 dots per inch, while most dot matrix printers use under 200 dots per inch. Thus, all you would get is garbage.

If you read the advertisements for lasers, you will see that many of them have several printer emulations. That means that if it is emulating a Diablo 630, or an EpsonFX, or an IBM Proprinter, that the printer commands for those printers will be accepted by the laser and printed out as though they were that machine.

Many of the newer dot matrix printers have a variety of fonts built in. My XR-1000 has Courier, TW Light, Sans Serif, Cinema, and several more that I can choose from the front panel of my printer. Even though most laser printers advertise 14 basic fonts, they will not be different fonts that you are used to with your dot matrix. These 14 fonts are basically variations of one font...Courier., ie courier 10 pt, 12 pt., 16.6pt (condensed as we know it), in regular, bold, italic, etc. Thus, this is the only font you will get when you are in said Epson, Diablo, Proprinter, etc. mode. The commands for condensed, enhanced, double wide, etc. will be interpreted and printed as you usually expect.

Thus, when considering a laser, the first thing that you will want to know is whether it has built-in Epson emulation or whether a separate card can be purchased to emulate an Epson. With this feature, you can use PAGE PRO, TIPS, etc. without any modifications to the program.

There are several laser printers advertised between the \$600 and \$900 range, but the cheapest in price may not be the least costly in the long run. If the Epson emulation is not built in, the cartridge will cost about

\$100. A lot of these low-end printers only have 512K memory.

A laser printer is a "page printer". All of the data necessary to print an entire page is sent to the printer before it prints anything. Thus, if there is not enough memory in the printer to hold the whole page, not all of it will print. When reading articles on lasers, they say you should have at least 1mg in order to print a full page of graphics. I don't know how many of us would be printing a page of high density graphics and nothing else. But it is some thing you should consider.

The cost of laser memory varies widely from printer to printer. You can add a meg to your PC for about \$50, but it will cost you two to three times that for your printer, depending on the make.

Another cost to consider is the imaging process the laser uses. Some use a toner/drum combination which is standard in the HP laserjets. Others require you to replace the toner and drum separately. This is not done each and every time you need toner, but every so many thousand copies. Some use the HP toners and others use their own brands which are not as plentiful or as cheap.

I seriously looked at the Epson Action Laser II. This is a very basic inexpensive printer. It has Epson emulation built in, and uses Hewlett Packard font cartridges (which you could use for text on the TI). The print speed on this machine is rated at 6 pages per minute which is fast for a low-end printer. Standard memory is 512k and additional memory was about \$100 for one meg and \$150 for 2 megs. The second meg is sometimes cheaper because it goes on the same board as the first. However, I started to get second thoughts when I found out that the toner cartridges were about \$100 each and the drum had to be replaced at 130,000 (I may die before I reach that many though) at a cost of about \$150. The street price on this printer is a little over \$650.

Since I would be using my laser in both my TI, and my DOS machine, I looked at a machine I probably would have passed up if I only had my TI. This is a TI microlaser which was highly rated in a PC Magazine review. However, when I went out to CompuADD, the only dealer in this area, they did not have one in, did not know when they would get one, and couldn't tell me how much an EPSON font cartridge would cost or where I could get one. Guess you know they lost that sale in a couple of minutes.



Another machine I would definitely have considered if I were buying for only my TI, would be the Star Laser 4. This comes with Epson emulation, 1mg of memory, uses HP standard toner cartridges and font cartridges. Most dealers are including a 25-font cartridge in the price which is about \$799. It is a 4 page per minute printer. However, it uses something called RISC processing which sends the data out to the printer faster.

Because I intended to use my laser for business as well as pleasure, I chose the Laserjet IIIp for that very reason. It is probably a little more expensive than most of you would feel free to spend, and you might choose instead the Laserjet IIP which has a street price about the same as the Star printer.

We were getting a Laserjet III at work and what I did at home would be compatible with what I do at work without any modifications. The only noticeable difference for me is the print speed. Of course, it is not nearly as large, with smaller paper trays, but I am finding it adequate for a home printer. The Laser III and up family supports scaleable typefaces, filled fonts, and most of the fancy tricks you see Marty do with his Canon laser. However, just as with Marty's printer, the software drivers for the popular DOS packages do not yet take advantage of these features. If I am to use them, I have to learn an entirely new language called PCL and have a software

program that will let me insert my own printer codes. It comes with 1 meg of ram standard. I added a second meg and got the Epson cartridge which added about \$200 to the street price. Recently Micro Center advertised cartridges for the IIP and IIIP at \$58.00. Just as diskettes and ribbons became cheaper when the volume of users increased, we should see toner decrease also. My toner cartridges are supposed to be good for 3,000 copies. After you get a couple of cartridges, you can always have them remanufactured. I am told that the cost for this is about \$40.00. When cartridges were selling for \$75 to \$100, this was a sizeable savings.

I wrote this article using Art Gibson's Newsletter Printer program and the Epson Emulation cartridge on my HP laserjet. I recently purchased a scanner and scanned the picture of a Laserjet from an ad in the Computer Shopper. I converted the scanned image to a Mac file and sent it over to the TI where I converted it to an instance. I used TI-Artist to add the text above and below the picture.

That sounds like a lot of work when I could have just printed it in two columns from Word Perfect with high resolution graphics and a fancy font. We all know that Word Perfect can do a decent job of desktop publishing, but not everyone knows the TI is no slouch considering it's age and lack of memory and sophistication.

---

## **LASER PRINTING EXAMPLES FROM FUNNELWEB**

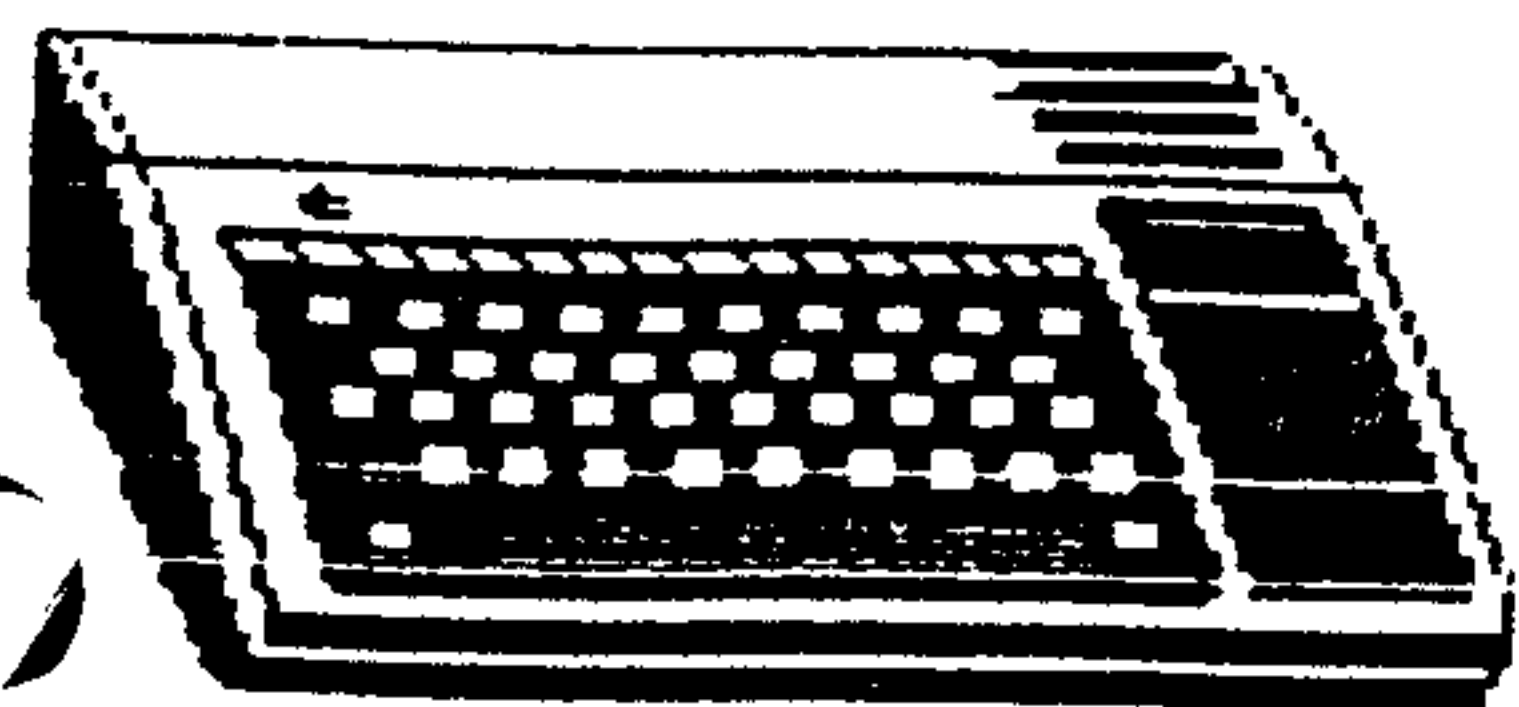
Following are a few of the font variations I was able to create with transliterate codes. If this were a dot matrix printer, all I would need to transliterate would be 27,15 to print in condensed print. In contrast, the transliterate code consists of three parts to print this example. The first sets the symbol, in this case, Roman 8, and is 27,40,56,85. The next set tells whether I want to print in fixed or proportional. I chose fixed for 27,40,115,48,080. Lastly, I want to tell it how many characters per inch 27,38,107,50,83. Thus, the complete transliterate to print in Roman condensed is TL 126:27,40,56,85,27,40,115,48,80,27,38,107,50,83.

**To get this printout, I used all of the above, but added commands to print in 12 point type and extra bold**

*For this printout, I deleted the extra bold and asked that it print in italics.*

*This time I requested proportional spacing and 10 characters per inch with height of 24 points. I understand that Marty Smoley prefers to use Control U codes for his commands. I have always been much more comfortable with transliterates in that when you have one defined, it can be used over and over throughout the document without retyping in the commands.*





# LIMA-MUG Conference



## LIMA CONFERENCE - MAY 15/16

There is a lot to see and do at the LIMA FAIRE. There will be 13 dealers, including Ron's Recharged Computers, many user groups from all over the States and Canada, and many seminars by the experts, including Ken Gladysewski from Northcoast UG. You don't even have to leave the building for lunch. The cafeteria will be open at 11:00 AM.

Here is the Schedule and Speaker list:

Friday May 15: 4 PM - 8 PM. Setup time. Disk copy stations will be available. The more people helping, the quicker everyone can socialize.

### Saturday May 16:

7:30 AM Doors open. Setup. Disk copying until 6PM.

8:00 - 9:00AM Room 101, Ken Gladysewski - "Do it yourself products for the TI, including analog to digital conversion"

8:30 - 9:30AM Rm.150, Charles Good - "A preview of FNLWB v.5, completely rewritten editor."

9:00 - 10:00AM Rm.101 - meeting of the "National Committee for TI Standards", Don O'Neil presiding.

9:30 - 10:30 Room 150, Joe Ross "Applications for C-SHELL 99"

10:00 - 11:00 Room 101, Delores Werths "Programming

music for the MIDI Interface; new music from Harrison Software".

10:30 - 11:30 Room 150, Bill Nelson "Comrodine Products".

11:00AM Food Service opens

11:00 - Noon Room 101, Mike Maksimik "Latest hardware and Software from Crystal Software".

11:30 - 12:30PM Room 150, Gary Bowser "Hardware and Software from OPA".

Noon - 1:00 Room 101, The Multi User Group "Conference".

12:30 - 1:30 Room 150, Bruce Harrison "Latest non-music offerings from Harrison Software".

1:00PM - Food Service Closes.

1:00 - 2:00 Room 101, Eunice Spooner and Meaghan Good "Teaching TI LOGO to a real First Grader".

1:30 - 2:30 Room 150, Mike Sealy and Mickey Schmitt "Latest Software from MS Express".

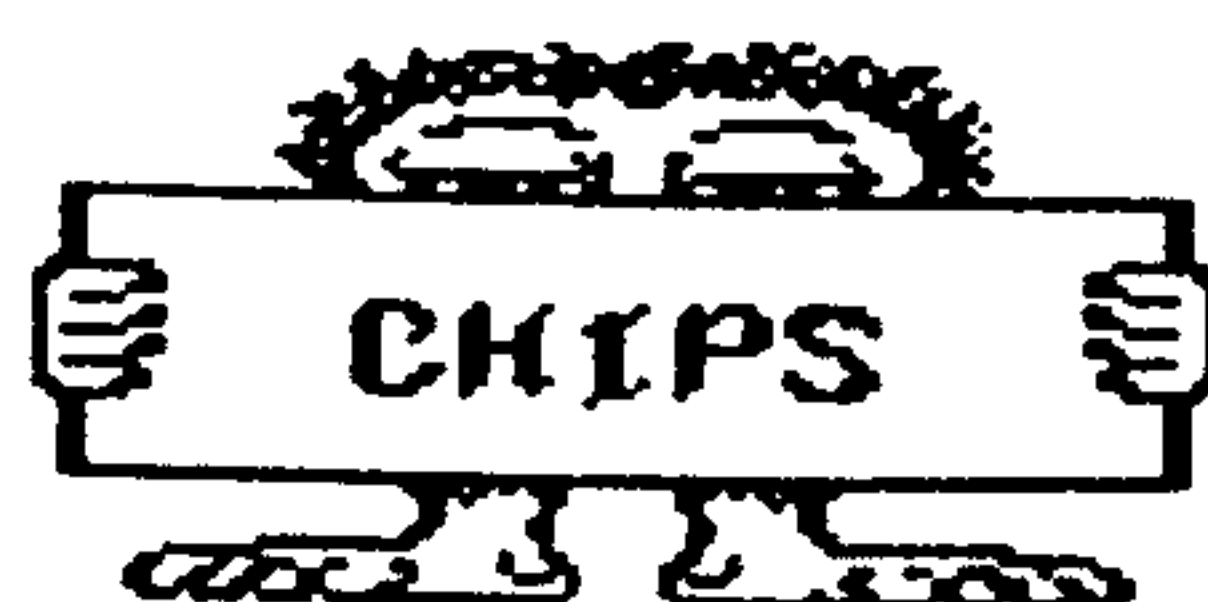
2:00 - 3:00 Room 101, Beery Miller "Software for the Geneve from 9640 News".

2:30 - 3:00 Room 150, Jim Peterson "A Programmable Calculator".

3:00 - 4:00 Room 101, Karl Rowstedt "A new character editor".

4:00 - 5:00 Room 150, Lee Bendick "Demo of the TI-99/8 and peripherals".

5:00 - 6:00 Room 101, Barry Traver "Porting MS-DOS text files and software to the 99/4A".

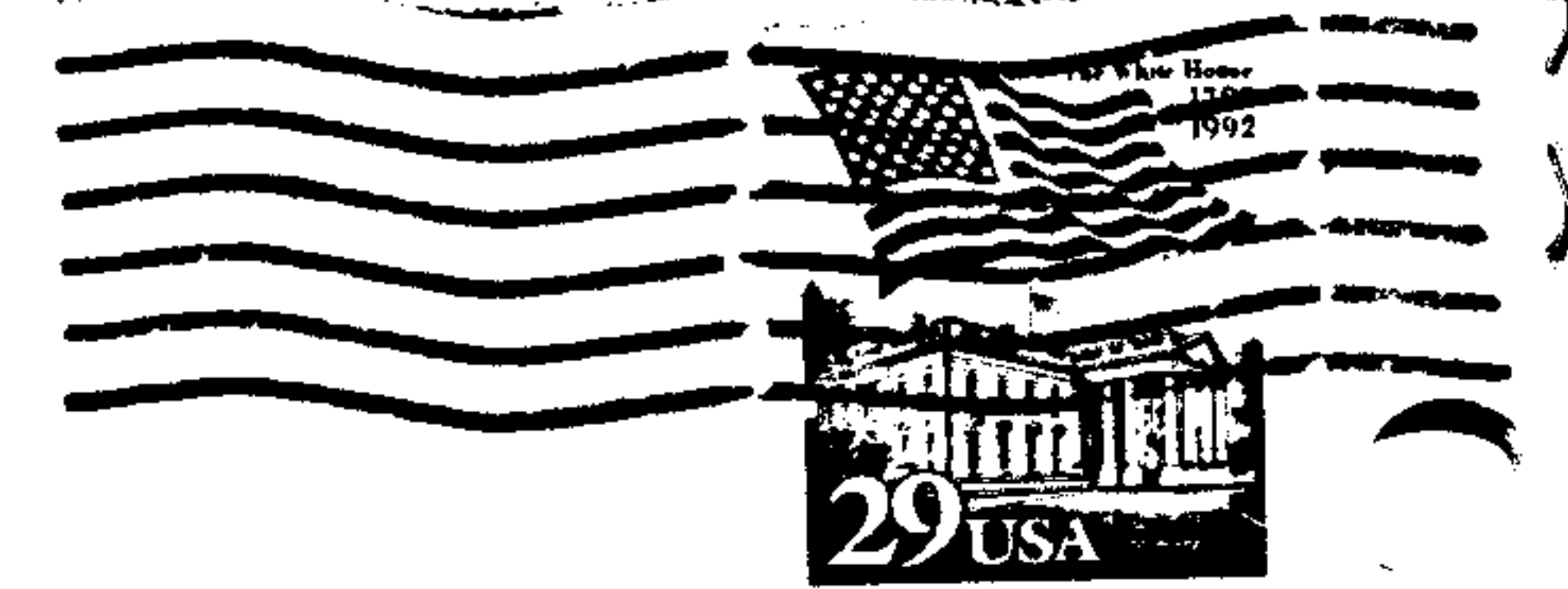


## TI-CHIPS WELCOMES NEW MEMBER!

**Timothy Bodenmiller**

From Berea Ohio. He has had his computer for five years. Welcome aboard!

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!

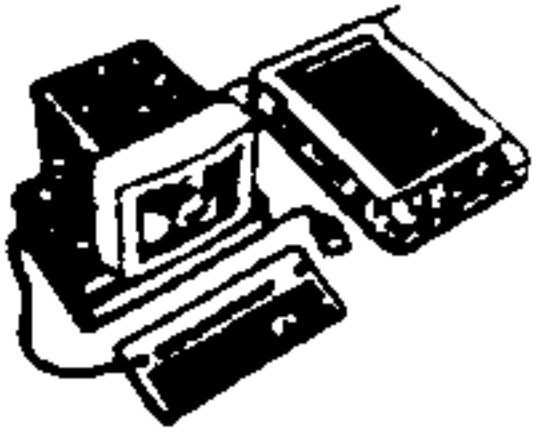
FIRST CLASS

FIRST CLASS

FIRST CLASS

FIRST CLASS

Ron Markus



**RAMCHARGED COMPUTERS**  
"Your TI 99 / 4A and GENEVE Specialist"

P.O. Box 81532  
Cleveland, Ohio 44181

(216) 243-1244  
800-669-1214

**FOR  
SALE:**

Complete System,  
With manuals.

Chester Howes  
Manchester, Tenn.  
1-615-728-9564

Sorry, that's all the  
info I received.

Selling Some Gear?  
NEWSLETTER TIME!!  
Give me all details.

**Editor note:**

We are very lucky to have a dedicated man like Ron in the Cleveland area. He is a fully paid-up member of both groups, and drags all that equipment to both club's without complaint. If you are very observant, you will notice that he is not doing enough business to justify all the work he and Ada are doing. Save money on mail! Buy from Ron! Let's keep him around.

(Page 10)