



Classic 99

People
Helping
People

The Official Newsletter of the Hoosier Users Group

July -August 1998

The HUGger's Newsletter

Volume 17 Number 4



Officer's Corner

By Dan H.Eicher

Happy Summer Time!

Lima was a great fair, I think Tim Tesch summed it up when he said it was a great opportunity to see those friends we call TIFers!

Charles Good is once again to be thanked for helping draw us together in comradeship and giving us a forum to exchange hardware, software, and most importantly ideas!

For the Geneve users among us, the big news was probably that Tim Tesch has released version 6.0 of MDOS and upgraded CYA to go with it. MDOS 6.0 cleans up a few bugs and makes MDOS year 2000 compliant!

I did a demo consisting of the Plato educational system, including Control Data Console and The Tommy Tutor. I also showed to the public the first release of the TIFAQ! A copy was posted to the List server, Don O'Neil's FTP site and the Hugger BBS! Everyone was very enthusiastic about this document.

We also were given a good bit of hardware, software and manuals that used to belong to the recently disbanded Connie Users Group. A big thanks goes to John Parkins, who saved these TI items from the trash dumpster. The easy thing would have been just to pitch it, but John made the effort to get it back into the hands of those who would use it! I picked up several new pieces of hardware and several software packages at the fair! Tony Kneer gave the

Huggers what could be considered the Ultimate Kneer Compendium.

It consists of the following program disks, all by Tony.

WDS100 Disk Manager 7.31.94

Charapatch 1997 Loads your favorite Chara1 file into MDOS.

XB version 2.5 1997 For the TI with Gram Device.

XB version 2.6 1997 For the Geneve.

PGRam Reloader Version 1.0 1996

PGRam Utilities Version 2.3 1995

Scattergories 1994

Music Programs Volume 1 1992

Music Program Volume 2 1993!

I'll try to get the Personality Manager uploaded to the hardware section of BBS sometime soon!

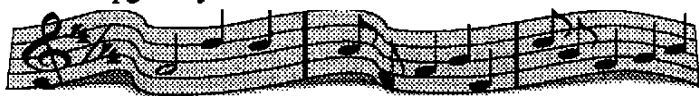
Also at the Lima Fair, Bruce Harrison released the long awaited feature of Midi Recording for MIDI Master. With this new feature you can sit down at a MIDI keyboard and play a song. the TI would be "recording" this music in MIDI format, for later playback. He is working on a program that will allow you to enter sheet music on the TI for playback through the MIDI interface.

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The length of your recording is only limited by the amount of memory that you might have on an AMS card! On page six of the newsletter, I have listed information I received from Bob Carmany on the part numbers and prices you would need to upgrade your SAMS card.



The Super AMS produced by the SW99ers can contain a practical maximum of 1 full meg. Richard Bell, Sys. Op. of the Lost Reef BBS (718.448.9402) is working to create an online support BBS for MIDI Master Users.

One interesting piece of hardware I got from Bob Carmany at the fair, which he got from Australia, is a very rare DIGIT RGB converter for the 99/4A (without 80-column card)! This little device allows a standard 99/4A to be hooked to the same Analog RGB monitors as the Geneve and 9938/58 equipped TIs. It should be noted that the type of RGB created by the TI with this device or 80-column equipped devices (along with Tandy Color Computers, many Atari's and Amiga's) is sometimes called Television RGB since the scan frequencies of these devices are closely attuned to that used by televisions. It is this type of RGB for which the Video Turtle is produced (and sold by TexComp 800.846.3474). I received one of these for my birthday. As soon as I get an Svideo equipped TV, I will demo the Video Turtle being driven by a Geneve.

Another piece of hardware I picked up for my TI system at the Lima fair (which I have installed in our TI demonstration computer) is a Horizon 4000 ramdisk. It has 1 meg of storage using just two 512Kx8 chips! Not sure what the total capacity of this ramdisk is but I still have plenty of empty sockets! The batteries that came with this unit were a little "suspect" as to their age and condition. It has always been my policy, that before using a ramdisk, I clean the battery contacts, purchase new batteries and charge them for at least forty eight hours (in a charger, not in-circuit). Well, when I went to Radio Shack (RS) to pick up new batteries, I found RS had a new type of rechargeable battery Nickel Metal Hydride (NiMH), these have been available for Cell Phones for sometime.

My investigation has turned up that these batteries seem in all ways superior to Nickel Cadmium (NiCad). Their two main claims to fame seem to be a higher voltage output, for a longer duration (not really that critical in ramdisk usage) and they do not have the dreaded MEMORY EFFECT (very significant in ramdisk usage). In some of the literature I saw, references were made to special chargers for these type of batteries. I used my old battery charger with these new batteries for 48 hours, tested them with a Volt/Ohm meter, in-circuit, and they showed fully charged. They have been working know in my Horizon 4000 now for over a month, with no glitches!

For reference, I have included the RS part number and the different batteries that are applicable to Horizon ramdisk.

Part #	Current	Size	What
23-525	1200 maH	AA	NiMH
23-527	550 maH	AAA	"
23-125A	*	AA	NiCad
23-127	250 maH	AAA	"
23-149	850 maH	AA	High Capacity NiCad

(No part number for Hi-Cap AAA is listed!)

* Listed as 45MA - 14 Hours..

In other news, Michael Becker of the SNUG Users Group in Germany is looking at making another run of their 80-column board. Bob Carmany has also been in touch with Yamaha, where he has found they have 9958's in stock at \$19.99. If you ever want to have an 80-column card on your TI, I would encourage you to purchase a couple of these chips. New boards can always be produced/rcpaired. But with out this chip, which is the heart of any TI 80-column video system, you'd be out of luck!

In other news, I am getting much closer to accumulating a care package to be sent up to Carl and Mary Rose Clark who live in Alaska!

Also, Bill Gaskill dug up an interesting piece of history, the Product Support Review Newsletter, created by TI and sent to their product support people. A copy has been included

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in this issue of the newsletter. Six of these issues are available in PC Paper Port format. If you are interested in seeing them, please call or e-mail me.

As discussed in the last issue of the newsletter, the June meeting (remember, third Sunday, June 21st!) will be at Bill Lucid's place! Please call or e-mail me if you need directions.

At the July meeting, (to be held at the Eicher homestead) the spot light will be on sound! The two programs I am going to review are Sound F/X by Barry Boone (available from RamCharged Computers 440.243.1244) and The DigiPort sound system (available from WHT 408.934.0352 or sales@whitech.com). Sound F/X is a software only package for the TI and Geneve, whereas the DigiPort is a hardware/software combination that works off a parallel port.

The August meeting will be "at the movies". I will show some rare footage of advertisement and infomercials produced for TI, starring Bill Cosby! Popcorn and beer/soft drinks will be provided.

One of the things I have been working on is cleaning up our mailing list. I have pruned out many members who haven't renewed in quite a while. If I have wrongly set your renewal date, let me know and I will make it good as quickly as possible.

In order to help keep you informed of your renewal date, a high lighter has been purchased. The two newsletters before you are due to renew I will highlight the renewal date. So please look at your mailing label!

As far as exchange newsletters go, I have updated our mailing list to only include active newsletter exchangers. I have sent out a letter to those who we had exchanged with in the past to see if they are still producing a newsletter and if they are, asking to be re-added into their mailing list.

We are now exchanging newsletters with the very active United Kingdom Users Group!!


Dan



Understanding I/O Subsystems: A Book Review by Dan Eicher

By W. David Schwaderer and Andrew W. Wilson, Jr.
Published by Adaptec Press. ISBN0965191109

From the dust jacket:

"Contemporary I/O subsystem performance comprises today's performance battle ground. Simply stated, bad I/O kills systems every time. So, it's increasingly important to understand I/O subsystem performance to maximize system performance.

This book provides readers with a unique systems perspective by documenting popular PC system evolution from it origins to present design. Detailed and systems performance discussions cover mother board design, BIO considerations, system expansion buses, disk controllers, hard disk design, hard disk interfaces, parallel SCSI, emerging serial SCSI approaches including IEEE1394, SSA, and Fibre Channel.

No single work has ever condensed I/O subsystem essentials into such a readable, compact reference. From performance specialists to end users alike, *Understanding I/O Subsystems* is a survival guide that provides crucial insights for understanding I/O system components and identifying bottlenecks."

The authors (both Electrical Engineers) have worked for many years for Adaptec, (the name in SCSI!). The book has many great illustrations and all technical terms are explained in such fashion that almost any one can understand the main concept.

One of the things I really miss now a days is the ability to purchase a computer book which will teach me principals of computers. By principals, I mean things that once learned are of continued value.

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In today's Microsoft driven world in which product life cycles down to less than a year, what usually happens is books are written based upon a pre-release of software. The book is published, you buy it and use it for seven or a eight months, then a new "and improved" replacement comes along, making most everything you have just learned obsolete! O'yes, now you will have to go out and purchase a new book on how to use this new upgraded version!

Great for making companies dollars. But it really makes one feel like "keeping" up is futile proposition at best. The classic methodology is that you learn the principals and can apply them over a life time. In the 70's and 80's there were many general books written on hardware design and software development. You could purchase one of these fine books and they would be of value to you for many years, no mater what computer system you were working on. I have about a half dozen of these classic books. Well, I have found another one in *Understanding I/O Subsystems*. The two main contenders in today's mass storage market are IDE (Integrated Drive Electronics) and SCSI (Small Computer Systems Interface). Both of these interfaces, plus many more, are considered.

The first interface for the TI was the Western Digital Personality card by MyArc. It uses a standard WD controller card to control the hard drive, and the MyArc personality card to interface the WD controller card to the TI! The TI now has SCSI thanks to Western Horizon Technology. SCSI is in all ways better than IDE (except cost, in some circumstances). The TI almost had a ESDI controller. There was a company called ESD. Shane Truffles was the president/owner. He actually produced a couple of prototype controllers and Chris Pratt worked on a DSR for it. I believe because of financial difficulties none of these boards were ever produced.

The first few chapters give a technical over view of how PC's came about controlling hard drives and integrating them into the hardware and software. While these

chapters concentrate pretty heavily on PC architecture, there is still much of value for those using other systems.

Some of the Chapters are:

Hard Disk, Other Rotating Storage, SCSI Primer, IDE, EIDE and ATAPI Device Interfaces, Serial SCSI Protocols, Performance Assist Considerations (Caching) and RAID Systems.

In the Hard Disk Section alone, some of the topics discussed are Magnetic recording, illustrations are provided to show you exactly how bit changes on the hard drive are brought about; a component overview, talking about the packaging, the head, the spindle, the motor . . . Sector Format, Bad Sector Management, Density: Areal, Bit, Track. Performance: Seek, Latency, Transfer Rates and other performance issues.

As you can see from just the partial overview of one section, this book ISN'T filled with fluff! If you are unsure as to whether or not this book is for you, you might try getting it from your local library. If they don't have it, ask them if they can get a copy for you through interlibrary loan! I will also bring my copy to the meeting!

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PANASONIC KX-P2135 PRINTER for the TI

By Jerry Novak of PUNN

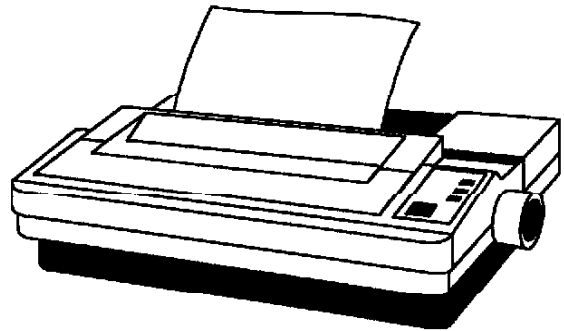
Article originally published in the PUNN Newsletter

Revised 4/12/98

With things like Microsoft Word and soft fonts from the "dark side", seems like yet another good reason to move on to PC's right? Well maybe not necessarily! I'm in love with my TI computer and not about to part with it even though I am DOS and Windows '95 literate. Paging through Computer Shopper awhile back I stumbled onto a Tri-State Computer advertisement for printers, specifically a Panasonic KX-P2135 dot matrix printer for \$100 (*with factory rebate). I did a bit of research and found out it's a 24 pin color printer, Proprinter and Epson compatible, so I figured I couldn't go wrong and ordered one.

When it arrived, I was a bit disappointed, because the Panasonic folk built the package to cater to PC/Windows users, supplying Windows and DOS setup disks, and a manual that told little more than how to use both disks and the controls on the user panel. Also, it has only a parallel port, no serial one. However on the DOS disk, is a text file that contains all of the necessary printer codes plus a complete description of the printer's graphics modes - Now we're in business! I downloaded a copy of it to an IBM formatted disk on a friend's computer, I took it home, transferred it to a TI disk via PC Transfer and printed it.

I found that the printer has two emulation modes, IBM Proprinter X24E and Epson LW-860, both of which will work with the likes of TI Writer, Artist and PagePro. The Proprinter side is O.K. with color, the 6 resident fonts in letter quality mode and its other features, but it's the Epson side that really shines! Besides draft and the same 6 LQ fonts in letter quality, it has italics, emphasized, double strike, outline, shadow, double high and double wide highlights, all of which can be in another color in outline, shadow or both if one so desires. It can super/subscript print, set and use vertical



and horizontal tabs. It can underline, over score and strike through text in one pass with solid or broken, single or double lines, this of course in addition to the standard IBM character line box set capabilities, Print quality is of course 24 pin excellent with a decent ribbon.

As if all this isn't enough, the printer will extend TI Writer's 80 column (pica) limit with its own on board "word processor" mode. There are printer codes that will let one center, right align or right justify text, in 40, 48, 60, 68, 80, 96, 120, 137, 160 column, text. In 40, 48, 60, 68, 80, 96, 120, 137 and 160 column proportional, or proportional compressed modes, It can also micro justify by user selected amounts.

Graphics capabilities far exceed the TI's with 8 pin 60, 120, 240, 80 (CRT1), 90 (CRT 2) dpi and 24 pin 60, 120, 90 (CRT 3) and 180 and 360 dpi settings, However, I'm sure some enterprising individual will find a way to use the higher than 60 dpi settings.

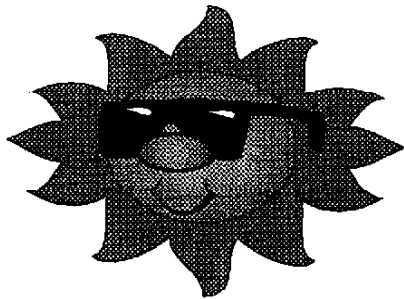
As an option, for an extra 50 bucks (spendy I know, but worth it) I bought the 32k Buffer memory chip, which allows extra document buffer room, and /or downloading of an extra couple of fonts, one for draft and one for letter quality. All of the previously mentioned highlights will work with this font as well. I didn't purchase the other option, a fifty leaf cut sheet feeder, as the 2135 comes with fifteen sheet feeder as well as a back side tractor feed.

Summing it up, I feel that anyone with a bit of programming skills or proficient in using TL codes should

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be able to do far more with this printer than writers of TI-Writer, Artist, or PagePro ever envisioned for our TI's. This printer has still other features, more than I care to mention here, making it A+ valuable addition to any TI or Geneve system, even with the lack of a conventional manual!

[Editor Note: Panasonic printers can cause problems with Myarc RS232 cards. I have seen a fix for this problem and can give you a copy at the next Users Group meeting if you are interested. Tri-States phone number is 800.433.5199. They currently list a refurbished model of this printer for 139 dollars.]



Information from Bob Carmany

Bob Sez: Regarding upgrading your AMS's memory:

The theoretical maximum for SAMS is 16 megs but the practical maximum is 1 meg. Both of the 128K chips are replaced by 512K chips and the jumpers are moved to the appropriate position. the part # is: HM628512LP70 AT \$19.99 FROM JDR MICRODEVICES (800)5385000.

And Regarding Yamaha:

The Yamaha number is:(800)5437457 and they had 20 9958 chips in stock. When you call Yamaha about the chips, ask about the availability of "V9938" chips. You will be transferred to a tech rep who can tell you about 9938's and 9958's. If you get an answering machine, don't despair they DO return your call.

I hope this helps.

Bob

[Editors Note: Remember to try and get a Data Manual out of them!]



**MARK
THIS
DATE**

Tentative HOOSIER USERS GROUP

Meeting Schedule

June 21, 1998 Sep. 20, 1998
July 9, 1998 Oct. 18, 1998
Aug. 16, 1998 Nov. 15, 1998
Dec. 20, 1998

Mark your calendars!!

Hoosier User Group meeting place TO BE ANNOUNCED prior to meeting. Meetings start at 2:00pm.

HUG supports the following computers:
TI 99/4A and Myarc 9640 Geneve

**Have a safe and happy
Forth of July!!!**



PRODUCT SUPPORT REVIEW

VOL. 2, NO.10

OCTOBER 1983

Reduced Prices

Prices have been reduced for 38 selected TI-99/4A software programs. Printed here are the new suggested retail prices (SRPs) of the affected programs.

Title	New SRP
Early Learning Fun	\$24.95
Beginning Grammar	24.95
Video Chess	39.95
Physical Fitness	24.95
Statistics	24.95
Early Reading	39.95
Reading Fun	39.95
Reading On	39.95
Reading Roundup	39.95
Reading Rally	39.95
Scholastic Spelling Levels 3, 4, 5, 6	30.05 ea.
Reading Flight	39.95
Alligator Mix	24.95
Alien Addition	24.95
Demolition Division	24.95
Dragon Mix	24.95
Minus Mission	24.95
Meteor Multiplication	24.95
Household Budget Management	24.95
Pers. Rec. Keeping	39.95
Tax Invest. Rec. Keep.	39.95
Pers. Report Gen.	24.95
Editor/Assembler	39.95
Home Fnc. Decisions	24.95
Football	24.95
Video Games I	24.95
Indoor Soccer	24.95
The Attack	24.95
Tunnels of Doom (cassette & diskette)	39.95 ea.
Tombstone City: 21st Century	24.95
TI Invaders	24.95
Car Wars	24.95
Alpiner	24.95
Munchman	24.95

Prime Selling Season Approaches

The holiday season is just around the corner, and already the typical consumer has turned his or her thoughts toward gift buying.

For manufacturers and retailers in the consumer business, this season is unmatched as the opportunity to dramatically increase sales.

It is not different in the home computer industry. In fact, if current indicators are correct, this year, a home computer will be one of the most popular items on many consumer's shopping lists.

With the Christmas season at hand, your opportunities to sell the TI-99/4A will increase.

This is the time to polish your demonstration techniques and to concentrate your efforts on capturing sales. Take advantage of this season to improve your selling ability to help Texas Instruments boost sales to a record high.

Although many consumers are interested in computers, you'll find that there remains a fine line between desire and the actual purchase.

All consumers seek to justify their purchase decision. In some cases, you will need to prompt the customer along.

Provide your customers with reasons to buy. You can demonstrate uses and answer questions in a way which no advertisement can. The impact you make by direct contact is extraordinary.

To help you make the most of your selling opportunities, remember to keep the following items in mind when demonstrating the TI-99/4A.

1) Customers don't know it all. In fact, they may know very little. They look to you for information.

Put yourself in your customer's shoes. Be inviting. Use an easy and open

(continued on back)

Rules For Returns

Every month a needless amount of time and expense is spent trying to track products sent to TI for repair. Much of the wasted effort could be eliminated if only customers would follow the correct return procedures.

As a PSR, you can help TI cut costs and reduce time consuming information hunts by passing the following information along to consumers:

Consumers needing service for a computer console, color monitor, or any other TI Home Computer accessory should send the item(s) by insured mail to:

**Texas Instruments
Attn: Repair Center
2303 N. University
Lubbock, Texas 79415**

A description of the problem as well as a return address including name, address, city, state, and zip code, should accompany each item.

If the returned computer is in warranty, it will be repaired or replaced under the terms of the Limited Warranty Agreement. Out-of-warranty units will be repaired or replaced with reconditioned units at TI's option. Service rates in effect at the time of return will be charged.

Customers may call the toll-free TI CARES line for more information about the return procedures or for advance information concerning our flat-rate service charges.

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PLATO Courseware Update

The following availability dates will keep you up-to-date on TI's popular PLATO** education software.

Each package includes a number of different programs from which to choose. To use PLATO courseware, your customers will need: a console and monitor (or television and adapter), the Disk Drive Memory System, and a PLATO Interpreter cartridge.

*A registered trademark of Control Data Corporation, U.S.A. Copyright © 1982 Control Data Corporation. All rights reserved. PLATO courseware is manufactured under license by Texas Instruments Incorporated.

Title	# of program packages	Expected availability
PLATO Interpreter Cartridge	1	August
BASIC Skills Curriculum (for grades 3-8)		
Reading	28	October, November
Grammar	17	December
Math	19	November
	total: 64	
High School Skills Curriculum (for grades 9-12)		
Math	8	September
Reading	9	October
Social Studies	10	December
Writing	8	November
Science	9	December
	total: 44	

New Game Software Great Gift Idea

Three new programs are scheduled to be added to the list of popular TI entertainment software. The three programs are **Slymoids**, **Return to Pirate's Isle**, and **Microsurgeon™**. All are expected to be available by November, just in time for Christmas.

In **Slymoids**, the player is a sharp-shooting cowboy who must battle hordes of alien slymoids. A slymoid scanner and laser fireball weapon must be skillfully used to locate and destroy the strange life forms. Special sound effects warn the player of approaching creatures. Players may choose from five levels of difficulty. The program has been developed and manufactured by Texas Instruments. **Slymoids** will be available at a suggested retail price of \$39.95.

Return to Pirate's Isle is a new intriguing adventure game from Scott Adams where logic and ingenuity are the keys to success. Players are challenged to find hidden treasures in the midst of a

treacherous environment. Multi-screen graphics portray different scenes as players attempt to reach the treasures. This program will be available at a suggested retail price of \$39.95. A storage system, either a Disk Memory System or a TI Program Recorder, is recommended for players who want to save a game in progress.

Microsurgeon puts players into the gloves of operating surgeons who must work against time to save patients in critical need of treatment. Sophisticated, multi-screen graphics enhance play as users probe through arteries, veins, and the lymphatic system in search of deadly bacteria, tumors, cholesterol, tapeworms, and other life-threatening diseases. **Microsurgeon** will be available at a suggested retail price of \$39.95.

*Microsurgeon is a trademark of Imagic, Inc. This program was developed by Imagic and manufactured by Texas Instruments.

TI LOGO II Now Available

TI LOGO II, an updated version of the original **TI LOGO** production release, is now available. This program incorporates all the features of **TI LOGO**, plus the additional enhancements of music, enlarged sprites, and additional commands.

In addition, **TI LOGO II** offers double the user memory of **TI LOGO I**, and operates with any RS-232 compatible printer.

TI LOGO II has music capabilities of up to three simultaneous tones which can be played across a five-octave range. Music also can be played in rounds.

The program is available at a suggested retail price of \$99.95. A **TI LOGO II** program cartridge, user's manual, and a complex cassette and diskette containing pre-programmed and interactive demonstrations of turtle graphics and sprite procedures are included in every package.

A Memory Expansion Card, used in conjunction with the Peripheral Expansion System, is required to operate **TI LOGO II**. A storage system, either a Disk Memory System or a TI Program Recorder, is recommended for storing procedures.

An RS-232 Interface Card and a compatible printer are required for printing procedures. Graphics cannot be printed from either **TI LOGO** or **TI LOGO II**.

Selling Opportunity

(continued from front)

manner as you introduce customers to the TI-99/4A. Take a personal interest in your customers' needs and demonstrate how our computer can help them meet those needs.

2) Point out the superior qualities of our Home Computer.

Our Home Computer is easy-to-use. Furthermore, it is a multi-function machine which can be used by every member of the family. (Demonstrate the software!). In addition, our TI-99/4A is expandable. We have the peripherals and accessories to provide our users with a powerful system at a practical price.

3) No other manufacturer can offer its consumers the wide variety of software that TI offers.

No doubt about it, we have all others beat. Any computer's attraction quickly wears off without software. Proudly point out that owners of a TI 99/4A do not need to worry about lack of software. There currently are more than 2000 applications available for the TI Home Computer.

4) TI offers its customers exceptional product support, both before and after the sale.

A customer who walks away from a sales counter with a TI 99/4A under his/her arm will never feel alone. TICAC, users groups, and the TI CARES hotline, are only a dial away for most customers.

5) Stress TI's advantages over the competition. Pay particular attention to the competitive information enclosed with this October PSR mailing.

PRODUCT SUPPORT REVIEW

is published monthly for Product Support Representatives. Send story suggestions or inquiries to:

TI
P.O. Box 10508, MS 5882
Lubbock, Texas 79408,
Attn: PSR Editor

Irma Estrada, Editor

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LIMA PC99 TIPS

by Roger Price H.U.G.

Was at the Lima, Ohio M.U.G. meet on May 16. I listened to some of the seminars and found some interesting information. One of the things I found out was that the proper way to start PC99 is to set up a short cut. This also enables saving of all screen graphics using ctrl+prt Sc (print screen) key. With a color printer you can print out such things as the Ti-artist front start screen with the futuristic city landscape.

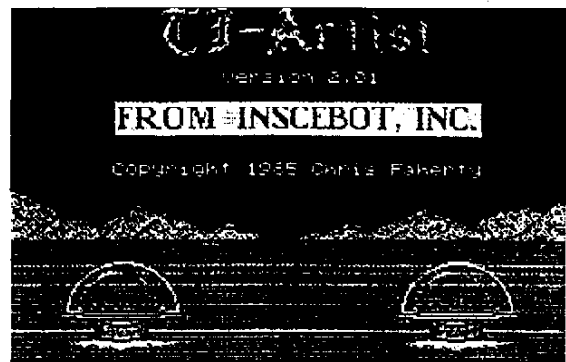
I believe that this will also make it possible to load and save on my Superdisk drive that does not have a Dos driver on my parallel port. I obtained 12 Infocom text adventure games that are now shareware. In the March issue of Computer Shopper there is an Article about the Infocom games Zork being made Copyrighted shareware. I presume the rest of the early games are also considered shareware also.

It was interesting to be able to see and meet the people that we have read about for so many years in Micropendium.

One of the things I have tried is to download via PC Transfer a file with a TI header. This is mentioned in the directions of PC99. The only thing I seem to be able to do is to download text files and I have an optional file to use from McFlix to download Apple Mac pictures that works well. The version I have is v1.0. Also, there is a disk of Utilities for PC Transfer that may have the file I need on it, if anyone has it.

An interesting tidbit. The ti-writer fctn O removes or displays the line numbers on the left of the screen when using the standard console. With PC99 use the ALT O key instead. Using the function key with PC99 gives a slash.

I hope to see you all at the June meet at Bills.



HUGGER S&T BBS

Hoosier Users Group, Indianapolis, IN
300/1200/2400/4800/9600 8N1
317-782-9942

Co-sysop: William M. Lucid
email: lucid@indy.net

Disclaimer

This newsletter is brought to you through the efforts of officers and members of the Hoosier Users Group. Every member is encouraged to submit articles.

If you have an article you would like to share, or a request for an article, mail it to:

Dan Eicher
2720 Palo Verde Court
Indianapolis, IN 46227

Opinions expressed are those of the author and not necessarily those of the Hoosier Users Group.





Hoosier Users Group
Dan H. Eicher
 2720 Palo Verde Court
 Indianapolis, IN 46227

Forwarding and Address
Correction Requested

Next meeting
June 21st!!

Hoosier Users Group S&T BBS
300/1200/2400/4800/9600 Baud 8N1
317-782-9942 24 Hours Daily

 Name:

 Address:

 City, State, Zip

 E-mail: _____

Cut on Line

Hoosier Users Group
 Dan H. Eicher
 2720 Palo Verde Court
 Indianapolis, IN 46227

completed application to:

New memberships and renewals are \$20.00/year. Make check or money order payable to Hoosier Users Group. Send

Below you will find an application for membership in the Hoosier Users Group. Active membership entitles you to the
 Newsletter, up and down loading rights on the HUGbbs, attendance and voting rights at regular club meetings, access to the
 HUGger Library of Programs, special club activities and special guest speakers for one year.

APPLICATION FOR MEMBERSHIP