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Leaving S&T BBS Softmail
by William M. Lucid

I would like to remind users of the Hoosier User's Group BBS, how to use the Softmail feature of the Email message base. First, I suggest you leave a message. Something to the effect you are enclosing a file. DO NOT SAVE the message now. As soon as your finished with the message do an "F" for file. You will be prompted to choose the file protocol of choice. Then start your transfer from your terminal program. When the transfer is finished, you will be returned to your message. If there is anything you want to continue in the message, do a "C" to continue. If you have nothing else to say in the message, do a "S" to save! If you DO NOT SAVE the message, the file you transferred WILL NOT GET SAVED. Anyone having questions regarding bbs operation please call 317-291-3995 before 10:00 pm or leave email to user number 1 on the HUG TI 99/4A BBS.

HUG OFFICERS (Area code 317)

President	Ricky Bottoms	392-2312
Vice Pres	Bryant Pedigo	255-7381
Secretary	Greg Larson	783-4575
Tresurer	Greg Larson	783-4575
Librarian	Byrant Pedigo	255-7381

MONTHLY MEETING LOCATION
WHITE HOUSE NEXT TO THE
ST. ANN'S SCHOOL
2839 S. McCLURE
INDIANAPOLIS, IN
AT 2:00 P.M.
JULY 17 1994

ATTENTION ATTENTION ATTENTION ATTENTION ATTENTION ATTENTION ATTENTION ATTENTION
 T THIS IS IT, A FOLLOW UP REMENDER!! THE MONTH OF JULY IS T
 E HERE.. PLEASE RENEW BY SENDING YOUR CHECK FOR \$22.00 TO E
 N HOOSIER USER GROUP GREG LARSON, SECRETARY, TREASURER N
 T 1604 HERITAGE LANE #3A T
 I INDIANAPOLIS, INDIANA 46227 I
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The Lima User Group's - Multi-User Group Conference May 13-14 1994.

by John Van Weelie Toronto 9T9 U.G. - News Disk Editor

Well it was a last minute decision to make the journey to Lima, Ohio to attend the 1994 Multi-User Group Conference.

I would like to extend my congratulations to Charles Good and the Lima User Group and the Ohio State University for hosting the Conference again. It was a hit. It seem that attendance was down from previous years but then the number of TI members in User Groups is down also.

This year I managed to to copy the Lima User Group Software Library most of it on the Friday Night. And Charlie was gracious enough to let the sets go to the hotel so they can be copied. It finished the copying and sorting in my room.

I was up early and and the University at 7 am to return the set of disks and continue meeting other TI users. The Kawartha Users Group from Peterborough had a table and we selling use TI equipment. They also used my TI system which consists of the TI and a CorComp mini expansion system and 2 floppies so they could copy the Lima Software Library as the line up for three copy systems was long at times.

This year I got to enough the conference more and talk to more users. I attended 3 seminars this year. I attended Bud Mills Seminar on equipment sold by Bud. He was still offering the Horizon Randisks, Pgram cards and other items. Bud states he has sold about 12 plus SCSI hard drive cards but the DSR for the cards is still not finished. He state that there have been a couple of set backs and I was not going to make a prediction that it would be ready "like next week" as he said this has created trouble in the past. But Mike Maksimik is very close to finishing it. It is hard for Mike to complete it as he has

been working 2 jobs and trying to complete the projects on his slate.

Later in the afternoon Mike arrived at the show and was at ST Software's Table which was along side of Ceure Electronics Table. Mike was demonstrating the SCSI drive in formatting it, making directories and subdirectories and backing the hard drive up to another hard drive. So hopefully soon the SCSI will have its long awaited DSR and be fully function and allow those earlier purchasers and future TI users to get them running the SCSI hard drives.

A note on the SCSI card BuD stated that beside having the DSR on the card they have included a ram chip to allow for enhanced drivers for future SCSI devices - i.e. CD-ROM, etc. Also that the SCSI card will be compatible with SCSI-1 standard devices as well as the SCSI-2 standard devices. Also that that the SCSI card will be able to connect 7 devices. Another device that Bud was selling was a keyboard card that clipped on the 9900 CPU inside the console. It was a little larger than my TIM 80 column card. Bud stated that both can co-exist inside the console. But there was a problem with the SOB board but it was not needed with the keyboard card as it allowed for new system groms also.

I attended 2 seminars by Jim Krych (pronounced Krich). The first seminar was about Asgard Expanded Memory System - emphasis on system. Asgard Peripherals stated that this would be their last TI project. With that Asgard has released the information to the public domain. Jim explained that it took three years of hard work by a group of 2 teams. A hardware team and a software team. From this project everyone learn a lot. Asgard will be shortly announcing the release of the package to the community which will consist of the schematics, the coding for the 3 programmable chips and the theory of operation for a 1 meg pseudo ram expanded memory card. This will allow the hardware hackers and any one else the ability to build there own cards. The latest version of the macro assembler, loader and linker are

available on most bbs's and networks.

The reason for the release of everything but the engineers notes was that Asgard Peripherals recognized very quickly that they were not able to recoup cost if they brought this hardware project to a marketable product. This was way they decided to release it to public domain so those who wish can make use of the information and built their own on proto cards. Jim demoed a proto built pseudo ram card. He stated that one of the team members who were a late addition developed the pseudo ram card in two months and was not a person who owned a TI. Who was a self taught computer techie who works for a major board company routing boards for Dell and Gateway as well as changing the BIOS's for those companies at the controller code level. Apparently with a logic analyzer, a 9900 CPU technical book, Peripheral Expansion Data book and Bunyard Book this gentleman was able to develop the pseudo ram design in 2 months.

Jim explained the benefits of the cost differences between static ram, d-ram and pseudo-ram in terms of cost of the memory, board design and circuit requirements.

The second seminar by Jim Krych was the future of the TI community. Jim stated that the TI community has to decide what it wants and decide how they wish to accomplish it. There are three ways to keep the TI community going - firstly was the design and building of a new computer with new 9900 compatible processor which is the hardware way - this is very costly and not that viable.

Secondly was a pseudo design which was to design a system based on another processor and using several CPU to do the work. Jim's example was that one could allow one CPU draw boxes, another to draw circles, another to do processing, etc. His idea was to let many CPU's to share the work and this way no matter how slow the processor - speed can be achieved by the use of work sharing. He stated that someone could take several slow 68000 CPU and with this idea built a MacIntosh similar to

the new ones and probably just as fast. This idea is a viable idea but again the community has to make up its mind on direction.

Thirdly was purely software emulation on another machine which can be done and has had several different authors putting together emulators for the IBM 386 and above computers. Each have had varying results and setbacks. Again the speed of the emulator is tied to the fact one processor is doing the whole work load. With the pseudo design this can achieve great speed increases by CPU work sharing.

I spent some time talking to Jim and I enjoyed his ideas and the TI community has to tap the ideas of people like Jim. The community has to work together and put aside their differences. One person can't do everything.

Here is a list of speakers scheduled to give seminars at the May 14 Lima MUG Conference. Seminars will run from 9AM-5PM. * Mike Wright - PC99 emulator for the IBM 386+ clone

* Don Walden - products of CECURE ELECTRONICS

* Tim Tesh - T\$ Software

* James Schroeder - (topic unknown, he is author of REDISKIT)

* Barry Traver - converting TI XB programs to IBM GW-BASIC and QBASIC.

* Charles Good - Funnelweb v 5.01 40 and 80 column editors, maybe also v5.02

* Bruce Harrison - showing off his numerous public domain offerings

* Ron Markus of Rancharged Computers - various ASGARD software products and the prostick joystick. Ron is "official" Asgard Software rep at the show.

* Jim Krych - two seminars, one about Asgard Peripherals stuff and one called "The literal TI" whatever that means.

* Ken Gilliland - Notung Software

* Mickey Cendrowski (I hope I spelled this correctly) - MS EXPRESS software

* Beery Miller - 9640 News and other Geneve related stuff

* Bud Mills - Horizon Ramdisks, SCSI card, and other BMS hardware

* User Group officers meeting, The MUG "Conference".

Thats 15 1 hour time blocks of seminars, and maybe more to come. This means it will require THREE 6HR VIDEO TAPES to get the whole video record. Either leave 3 tapes and \$3.75 postage and handling OR \$15 which pays for the tapes at the Lima table in order to get a set of video tapes of the Conference, hopefully complete with sound this year.

Others vendors or User Groups with tables were: - RDB Computing - Ricky Bottoms Media Ware - Mark Wacholtz L.L. Conner Enterprise - Larry Conner Competition Computer

Pittsburgh User Group West Penn User Group Will County IL User Group Mid South User Group Cin-Day User Group Great Lakes User Group Cleveland User Group Lima User Group Kawartha User Group

This year there was lots of used hardware and software besides the new wares by the vendors. There was some IBM assorted hardware but not a lot. A couple of complete Geneve Systems with hard floppy controllers and hard drives were for sale. Competition Computer had CD-ROMs for the IBM for sale - single speed where \$99.00 and double speed was \$149.00 and at the end of the day the single speed was \$75.00 and double speed I think was \$130.00. These were propriortory format (card) - not sure of the model.

Another note - I was stopped numerous times and asked if the rumour was true - is it true that Gary Bowser is here. Well I got the feeling that if Gary Bowser had have showed up in Lima, there were several individuals wanting to have an intense conversation with him. Many angry campers looking for Mr. Bowser. Charlie stated to me that he was not

welcome as a vendor but if he showed up as a member of the general public he was welcome. But considering the climate created by others he would not have been welcome for long.

MS EXPRESS and TM Direct Marketing - Going/Gone
By John Van Weelie

Toronto 9T9 User Group
June 1994.

Well events are taking place and the number of vendors are decreasing the TI community.

Firstly MS Express which was a small software company is being dissolved due to differences between the majors - Mickey (Schmidt) Cendrowski and Mike Sealy. So MS Express was closing up shop. The software is not going to be public domain or shareware. Some will be marketed by Ken Gilliland's company Notung Software, 7647 McGroarty Street, Tunjunga, CA 91042. Authors of software distributed by MS Express have been contacted and hopefull most of the software will still be available from other vendors.

TM Direct Marketing is in the process of having a closing SALE. TM Direct Marketing has decided to close up shop due to the fact that the major hardware manufacturers have closed some time ago or have stopped producing hardware. They have cited the Myarc closed, Asgard Peripherals no longer producing hardware, Cor Comp(Diversified Technologies) no longer producing hardware. And with the lack of major software publishers and hardware manufacturers, has made it hard to do business since most of the their inventory is stock from the closeout days of TI in 1983.

TM Direct Marketing is have a closing sale which is progress. They can be contacted by calling them at 1-800-336-9966.

That's it on the news front.

BIG DISASTER IN THE TI COMMUNITY!

By John Van Weelie

Toronto ST9 User Group
June 1994.

Well I have been informed by Gary Bowser that there has been one major event in the TI community. This major event was the PLUG being pulled on the Shareware Version of the TI EMULATOR by Ed Schwartz from Texas.

Apparently the author of the TI EMULATOR has been informed by Texas Instruments about the issue of Copyright infringement and that ended the Emulator. Since this Emulator was written in Assembly it was very fast and have few bugs. I worked on older machines (IBM)'s with EGA display. Older machines being an 80286 and higher. It was never verified if it would have worked on an XT with EGA display. This Emulator created a lot of talk in the Community.

Well since the plug was forced to be pulled, all copies of the Emulator and associated files were purged from the major online services - Genie and Delphi.

It is now illegal to have a copy on any bbs or in your possession. I had seen it running once and I thought that this product would have had a good deal of vitality to th community.

I understand that the plug was pulled because the Author of the Commercial Version of PC99 written by Mike Wright apparently has an exclusive right to the production and distribution of a PC TI Emulator with a royalty agreement to pay Texas Instruments a fee for every module sold with the Emulator and probably a royalty for every copy of the Emulator Sold.

I have found that probably not too many copies to PC99 will be sold as the Emulator PC99 requires a 80486/dx 66 mhz IBM clone to run. Apparently from what I have heard Mr Wright feels that this is the starter system in the Clone world. It might be, if someone is

purchasing from scratch and willing to spend \$1,500 plus for the system.

Many TI owners who have a clone as well, don't own a 486 dx 66 system but are more likely to own XT's, 286 or 386 machines. For instance I have 3 Ibm clones which consist of 1 Amstrad XT laptop - floppy based, 1 XT desktop which I have 2 hard drives, 360k and 1.44 meg floppy and a Colorado 250 Meg tape back up and 14,400 baud data/fax modem. My XT desktop is parallel networked with my NEC 386/dx16 VGA laptop machine which has a 420 Meg hard drive in it. So if they think they are going to sell me an Emulator - lots of luck since it will be a long will before I can afford to purchase a 486 system and even though the prices are falling below \$1000 Canadian for a 486 SX/DX 33 system, the user still has to purchase sound card and CD-ROM since most new future software will be released on CD-ROM.

I think the PC99 is being targeted to a smaller number of potential users than even the Geneve 9640. Simply because most TI users have not yet experienced the fact that programs in the IBM world are in the hundreds of dollars. And then there are many IBM users who would probably look at someone with a TI Emulator that requires an 486DX/66 to run on to get the speed of the TI console presently as probably crazy. The only IBM world types who would buy it would be those who have owned TI's and appreciate the little black and silver or beige orphans.

So in my opinion we have been hit with another black day in TI-89/4A history. So I would recommend that those who had the opportunity to obtain the shareware version to treat it like gold since it is now history and considered illegal.

Apparently the networks are quiet since the only conversation piece - TI Shareware Emulator which created a lot of traffic has been deemed to be copyright material by the Goliath. Since the TI Emulator plug was pulled now users have nothing much to talk about.

I think that if Mr Wright and crew have the exclusive rights on an PC based Emulator that he and his team might consult the Author of the shareware version and develop a version that will allow users with systems less than the 486/dx66 to purchase a commercial version that would run on 286 and 386 machines. I think that the possibility of 2 commercial versions - a version for lower end machines and the version for the soup up bells and whistles system.

Also the talents of all authors could be put together to produce a much better product and much more marketable product. But this will probably be asking for too much as I have found that most authors in the TI world don't want to share information because they feel they have no control. Well more than likely greed will prevail to the demise of the community.

Well I have said a lot on this subject. But the Shareware Emulator is dead and probably buried just like TI would have liked to done to the 99/4A.

Cheers.

**TINKERS BENCH NO.3
MONITOR CABLE**
BY Frank Frankenberger

Today's project will be to make a standard composite monitor cable using your old Video Modulator. There is no reason to hang onto it unless you need to go back to the old TV/Computer arrangement. If so then you will need to pick up a 5 pin din plug and some jacketed cable. I will discuss this as a separate project within the next couple months. A set of 4 RCA phone Jacks from Radio Shack was only \$1.99 so this is a very inexpensive project. You may also want to have a package of their Shrink tubing also as this will really dress up the end product. I use Radio Shack parts and refer to them by part number as this is the most common electronics dealer around for most of us.

LIST OF MATERIAL

- 1 Set of RCA Phono Plugs
(Radio Shack 274-319)
- 1 Package Heat Shrink Tubing (Optional)
(Radio Shack 278-1627)

To start, cut the video modulator cable so that it is the length that you want, (three feet should be plenty). I have seen this cable length vary from as short as three feet to as long as six feet. Strip back about six to eight inches of the insulation and you will find there are four wires. The shielded clear video cable, plus a yellow, black, and red wire. Remove the clear outer jacket from the video wire down to the area where you stripped the black outer insulation. The red wire is no longer required so cut it off at the "Y", however save it for the next step. Strip away the shielding from around the video cable and save enough sticking out (about 1/2 inch) to attach the red wire to.

If you are using the heat shrink tubing now is the time to slip a piece about 2 inches long over the cable so that you can cover the "Y" later. Solder the red wire to the shielded wire so that we now have the set of four wires. The yellow and black are the audio group and the clear and red are the video group. If you are using the heat shrink tubing cut two pieces as long as these wires are and cover both wires in each group.

The two RCA plugs used for the Audio and Video jacks should be different colors. I used Red for the Video jack and Black for the Audio jack, however any way you can use to tell the two apart is acceptable. Now is the time to be very neat and careful, as a sloppy job could be disastrous to your success.

After slipping the plastic grip covers over the wire sets then solder the red wire to the outer (longer) connection and the Video (clear wire) to the short connector (male plug of RCA plug). For the Audio plug solder the black ground wire to the outer (longer) connection and the yellow audio wire to the short (male plug) connector.

After the soldering is complete you should test your cable to make sure everything is correct. The diagram below is the 5 pin din connector and the two plugs. Test with a continuity tester to make sure that everything is correct.

(CONTINUED ON PAGE 9)

**Monthly meeting location
White house next to
St. Ann's School
2839 S. McClure
Indianapolis, IN**

**Meeting starts at 2:00 pm
July 17, 1994**

Tue, 21 Jun 1994 18:54:55

comp.sys.ti

From: Internet

Lines 123

TI-99 related technical documents

> responses

cohen@GOMEZ.phys.virginia.edu

Dept. of Physics, University of Virginia

Here is an updated list of TI-99/4A technical documents. Last chance for anybody who is interested to add/comment etc.

This is NOT a list of documents for sale, but exchange of data which is beneficial and useful is always welcome.

Technical books, manuals and articles (TI-99/4A)

TI99/4A Intern, by Heiner Martin ;also available on diskettes.

The Innmost Secrets of the TI 99/4A, by Randy Holcomb (A Computer Shopper book)

Orphan Survival Handbook, by Ron Albright

Terminal Emulator II protocole Manual (Texas Instruments).

Bunyard Hardware Manual for the Texas Instruments 99/4A Home Computer by Michael L. Bunyard, PE

Interface Standard & Design Guide for TI 99/4A Peripherals by Tony Lewis, PE

Dual Video Display Processor - Video Display Products Application Report (Texas Instruments); for TMS 9918/9918A/9928/9928A/9929/9929A.

TMS 9918A VDP Data Manual (Texas Instruments); a thick manual with much data, schematics, assembly programming examples.

High-Resolution Sprite-Oriented Color Graphics, by Steve Ciarcia (Byte, August 1982, p.57); for TMS9918A, TI LOGO, sprites.

SAMS Computerfacts- Texas Instruments 99/4A

TI-99/4 Console Technical Data Manual (Texas Instruments).

TI-99/4A Console Technical Data Manual (Texas Instruments).

TI-99/4A Console and Peripheral Expansion System Technical Data (Texas Instruments).

Peripheral Expansion System Theory of Operations and Technical Training Manual (Texas instruments); available on diskettes.

Chicago Users Group Hardware Manual (Chicago TI-99/4A Users' Group).

9900 Family Systems Design (Texas Instruments); covers hardware and software- includes:

TMS9900/SBP9900A/TMS9980A/TMS9981/TMS9985/TMS9940 : pp. 8-2 to 8-29.

TMS9901JL,NL Programmable Systems Interface : pp. 8-138 to 8-157.

TMS9901-40JL,NL Programmable Systems Interface : pp. 8-158 to 8-159.

TMS9902JL,NL Async. Communications Controller : pp. 8-160 to 8-193.

TIM9904 Four-Phase Clock Generator/Driver : pp. 8-249 to 8-262.

Texas Instruments Mcroprocessor Series- 9900 Reference Data (Texas Instruments).

Texas Instruments Microprocessor Series- TIBUG Monitor TM990/302 Reference Data (Texas Instruments).

Texas Instruments Microprocessor Series- Power BASIC Reference Data (Texas Instruments).

Texas Instruments Microprocessor Series- TMS9900 Microprocessor (Texas Instruments).

Texas Instruments Microprocessor Series- TMS9901 Programmable System Interface Data Manual (Texas Instruments).

Texas Instruments Microprocessor Series- TMS9902A Asynchronous Communications Controller Data Manual (Texas Instruments).

Texas Instruments Application Report- Minimum System Design TMS9900 16-bit Microprocessor (Texas Instruments)

Texas Instruments Application Report- TMS9900 System Development Manual (Texas Instruments).

Texas Instruments TM990 Microcomputer Handbook (Texas Instruments).

Fundamentals of Microcomputer Design- System Hardware and Software; Microcomputer series, by Don L. Cannon (Texas Instruments, 1982); much TM990 and 9900 family of microprocessors information.

TMS 50C40A (single chip speech system, 5/1/85)

TMS 5110A (voice synthesis processor (May 1982))

TMS 5220C (Voice Synthesizer processor (1984))

TMS 50C50 (Speech processor, 5/2/85, Preliminary- TI internal)

TMS 9909 Floppy Disk controller (9900 series. April 1981)

99/4x Disk Controller Approaches- Approach to a double density disk controller design for the 99/4A by Richard Tarrant (TI Internal, Corporate Engineering

Center Dallas, Rev. A- 11 Jan 82). This document contains a detailed comparison of three controller chips: 1791, 765, 9909.

Hex-Bus DISK DRIVE/CONTROLLER/DISK MANAGER III CARTRIDGE, for TI-99/4A, TI-99/8. This is the only manual I am aware of for the disk manager 3 cartridge (which exists! I do not have it, but L.L. Conner sold one to a user/collector in Orlando, FL), and the hex bus disk system. 99/4A and 99/8 discussed. No tech details: this is a USER'S GUIDE, intended for the end user as TI always thought of them (i.e., dumb).

Hex-Bus floppy disk system- product specifications. Includes technical information, dated 16 APR 83.

Product specification for the Hex-Bus Interface Peripheral (23 MAR 83)

Hex-Bus floppy disk system software specifications

IPB (Intelligent Peripheral Bus) structure, timing, and protocol specifications ver. 3.5 4/8/83. Very thick, 6 chapters, all-technical.

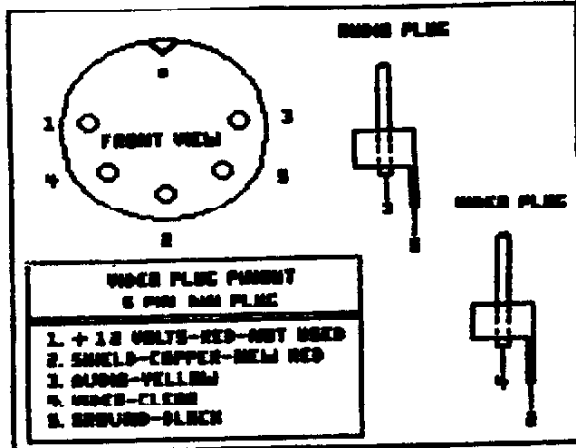
TI-99/4B (note: B! B!! B!!! not not not not not A!!!!) Computer system

product specifications

TI RS-232 card mod from primary (RS232/1, RS232/2, PIO/1) to secondary (RS232/3, RS232/4, PIO/2) ; RS-232 test adapter plug.

One thing I do not have- interested in obtaining-
Product 359 Basic Interpreter Design Specification, Rev. 3, June 30, 1980
Texas Instruments - 112 pages.

(CONTINUED FROM PAGE 6)



This newsletter is brought to you by the efforts of the officers and members of the Hoosier User's Group.

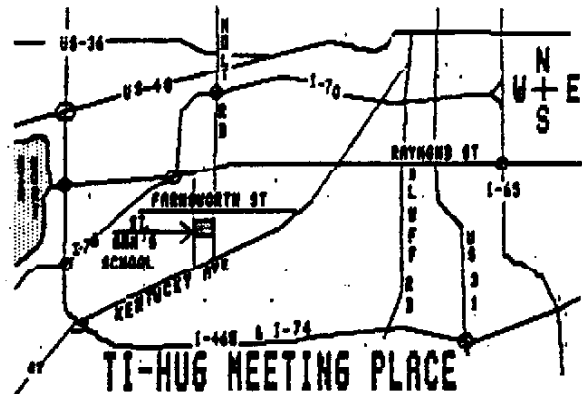
OPINIONS EXPRESSED HEREIN ARE THE AUTHORS'S, AND DO NOT NECESSARILY REFLECT THOSE OF THE PUBLISHERS.

MEMBERS ARE ENCOURAGED TO SUBMIT ARTICLES FOR PUBLICATION....PLEASE!

REMEMBER
This is your user group too!

When the cable test shows that everything is correct the cable is ready for final assembly and to be put into use. Screw the grip (covers onto the plugs and you are ready to go. If you are using the heat shrink tubing now is the time to heat it and shrink it. Heat the two audio and video wire groups and then slip the larger piece up to the "Y" section and heat it. I just hold them over the stove (very carefully not to burn my fingers) and the heat from the gas stove burner is plenty to shrink the tubing. A hair blow drier might not be hot enough, but you can give it a try.

This makes a very inexpensive monitor cable and helps you to get rid of the video modulator that has been laying around collecting dust. Next month we will make a Modem cable. Good luck and happy tinkering.



Chicago fair sets Nov. 12 date

A definite date of Nov. 12 has been set for the combined fair of the Chicago and Milwaukee TI users groups, according to Don Walden, president of the Chicago Users Group.

Scheduled site is the Holiday Inn in Gurnee, Illinois, Walden says. A definite name has not been selected for the fair, he says. Previously, the Chicago and Milwaukee groups held back-to-back fairs — one Saturday, the other Sunday — on the same weekend at different locations.

For further information, contact Walden at Cecure Electronics, P.O. Box 132, Muskego, WI 53150 or (414) 679-4343.

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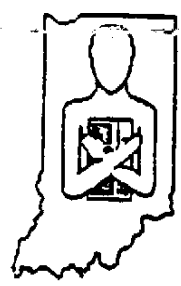
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 Renewals: \$22.00
 New membership: _____

Please print
 Cut on line

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

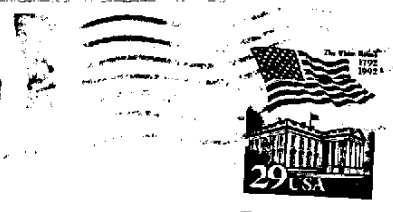
Make check or money order payable to Hoosier Users Group. Send completed application to:
HOOSIER USERS GROUP
 P.O. Box 2222
 Indianapolis, IN 46206-2222

APPLICATION FOR MEMBERSHIP



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TIME DATED
July 17 1994
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May 1994
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 Dan H. Eicher
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 Indianapolis, IN 46227

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300/1200/2400/4800/9600 Baud 8N1
317-782-9942 24 Hours Daily