

ISSUE #64 DECEMBER 1990

FOR THE RECORD
by Ed Bittner



Each article over the past five years has had its particular twist. Indeed, this one does also ! In addition each of our activities at the West Penn 99'ers is centered around the TI 99/4A, as is this one !! Our club after 5+ years is active and healthy, witness for example the election results below which has given us a complete change in officers from those earlier years..stagnation -certainly NO - willingness to become active and participate certainly YES !!!! We are alive and vibrantly so !!!!

The November meeting of the West Penn 99'ers was opened by Mickey Schmitt at 7:09 PM. with the President's special thanks going to Judy, Ralph, Mike and Chris who are co-editors/producers/reproducers and distributors of the Newsletter beginning in 1991. We wish them good luck. Officers reports were brief with Scott Coleman providing much electronic Bric-a Brac at the Right Price- free !! Many of the TI 99/4A West Penn 99'ers loved it.

Gary T. gave a BB update hoping that the HFDC will be installed by the end of November. Mickey , Norm, and Joe talked briefly on the Chicago show and the upcoming Festwest'91 (LA) , Feb 16,17th ; the DC show in April and the Ljma show on May 18, 1991.

Reflecting over the past five years, I've enjoyed writing "For The Record" and cheap shots, and innuendos (not suppositories); riddles, rhymes, and license for the month, I will miss dearly. (Not deadlines, however). It's good to move on and FRANKLY, ZIC has demonstrated his exceptional ability (I have, even though I'm sure he wouldn't use it, I'd order him a spellchecker, however).

With a now completed transfer of leadership from our original set of officers we will continue to promote the use of the TI 99/4A with excitement and vigor. Its great to be part of this community - The West Penn 99'ers.

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|------------------------|--------------------------|----------------------|
| in finality submitted, | V. President J Willforth | Rec Sec. - Frank Zic |
| Ed (Scoops) Bittner | Librarian Bob Sadusky | Cor Sec.- Mike Sealy |
| | Treasurer Lynn Gardner | Pres. Mickey Schmitt |

PS: Licence plate of the month : 4AGR8TIME

WEST PENN 99'ERS CLUB INFORMATION

NEXT MEETING DATE: DECEMBER 18, 1990
MEETING LOCATION: ST. STEPHEN'S BYZANTINE CATHOLIC CHURCH
JUST OFF ROUTE 30 BETHEL ROAD, NORWIN
TIME OF MEETING: 7:00 P.M.

LIST OF WEST PENN OFFICERS FOR 1990

PRESIDENT: MICKEY 335-0163
VICE PRESIDENT: SCOTT 523-3754
TREASURER: LYNN 835-4304
RECORDING SEC: ED 864-4924
CORRESPONDING SEC: GENE 829-0469
LIBRARIAN: BOB 863-5672
NEWSLETTER EDITOR: JOHN 527-6656

GENERAL ITINERARY OF THE CLUB'S MEETING

6:45 P.M. DOORS OPEN
7:00 P.M. GENERAL MEETING
7:45 P.M. DEMOS AND NEW INFO
8:45 P.M. HARDWARE & PRINTERS
8:45 P.M. INTRO TO ASSEMBLY
11:00 P.M. DOORS CLOSE

MEETING HIGHLIGHTS FOR THIS MONTH

LATEST T.I. NEWS AND SOFTWARE DISCOUNTS
LATEST NEWS CONCERNING OUR NEWSLETTER
UPDATE ON THE NEW HFDC CARD FROM ESD
BACKSTEINE, A GAME DEMO BY NORMAN ROKKE
"FORTRAN FOR THE TI-99/4A" BY AL BEARD
"CHRISTMAS PRESENTS" FROM SANTA TO ALL!

RENEW YOUR MEMBERSHIP DUES!

\$15.00 PER YEAR FOR INDIVIDUAL / FAMILY
\$10.00 PER YEAR FOR JUST THE NEWSLETTER

ON MYARC.....

I've seen a splash or two in the newsletters I receive stating that there was a message on the phone system that the phone line to MYARC (in Alabama) was disconnected. After reading this, I called the phone number printed in the December MICROpendium ad for MYARC on page 9. An answering machine responded with a message telling me to call back between certain A.M. hours, E.S.T.. I didn't have the chance to try again, but did learn two things.

FIRST: The phone line (205) 854-5843 isn't disconnected.
SECONDLY: Somebody is still paying for those advertisements in the MICROpendium.

I'm not sure what to make of all the bad things reported against MYARC. I know many of you have been having problems getting items that were ordered, or items sent in for repair returned and working. You would hope at least to be able to communicate with a company that still advertises and has announced that their Streamer Tape Back-up Support is available to you NOW!

I'm sure you don't need my cautioning you to be careful in at least where you send your money for a MYARC product. If a controller made by MYARC is completely inoperable, and you or a good friend cannot attempt to repair it, then assuming that you can get a Return Material Authorization number, what do you have to lose by sending it in for repairs?

WHAT HAPPENED TO TRITON? (from HOOSIER U.G.)

Triton has decided to get out of the T.I. business. The remainder of their inventory has been sold to former owner and co-founder - Terry Miller. Terry has a strong commitment to the TI community and deserves our support. 1-800-336-9966, TM DIRECT PRODUCT MARKETING, 379 Beach Road, Burlington, CA 94010.

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* This is an article I was going to write but A.L. BEARD of 9T9'ers by way of the Kentuckiana 99/4A Computer society. JFW

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W-AGE/99 \* NEW-AGE/  
99 \* NEW-AGE/99 \* N  
EW-AGE/99 \* NEW-AGE  
/99 \* NEW-AGE/99 \*  
~~~~~

* by JACK SUGHRUE, Box 459, East Douglas, MA 01516 *

1 1

THE LADY FROM LOWER BURRELL

Mickey Schmitt, president of the West Penn 99ers, is a young lady with extraordinarily varied T.I. interests and talents. She is an ardent fairgoer, ranging along the eastern seaboard inland to Lima, Ohio, and north to Canada, visiting with her hundreds of TI friends and fans and oftentimes representing groups or companies who couldn't attend.

Mickey is an author, programmer, tutor, collector, and adventure aficionado whose great sense of humor shows through almost all her activities. For example, in a very clever adventure she wrote for the TI Adventure Module (OLIVER'S TWIST - cassette or disk, Asgard, \$7.95), she requires the player to PUT BACK treasures in order to win the game. Her latest Asgard adventure, RATTLESNAKE BEND, is like John Wayne playing Viva Zapata. Wild, hilarious stuff. But hidden beneath the jocularly is a mean adventure guaranteed to please, pardner.

Adventuring seems to be in Mickey's blood. She is THE expert in the field. If there is an adventure for the TI she hasn't uncovered and played, it was probably written this morning.

A few years ago we had a chance to talk for awhile at one of the computer fairs, and she felt there was a real need to compile a listing of all the various adventures available for the TI so that users could have some kind of idea what is out there. I agreed but felt the task was formidable. Mickey didn't, fortunately for the TI community. She began collecting, sorting, doing, evaluating, and compiling every available adventure for the TI.

The result of this massive undertaking is THE ADVENTURE REFERENCE GUIDE, a 62-page, 8x11" commercially printed, easy to read book that not only gives a complete alphabetical listing of over 200 adventures but breaks them down into different sections by language (XB, E/A, etc.) and type (INFOCOM, Educational, Role-playing, etc.). There are astute reviews of selected adventures and sections on sources, utilities, and adventuring history. There is also a checklist for solving and comments. This is an indispensable guide for any adventuring T.I. (from Asgard, Box 10306, Rockville, MD 20848; \$9.95 / \$2 S&H). [Last I heard, Mickey was continuing to test new and new-found adventures for updating this magnum opus.

If you own Scott Adams' ADVENTURE MODULE or the disk loader interpreter of this module available from user groups, I'd highly recommend investing in Mickey's two games.

Life is strange. At least the life that goes on inside my head. When I sat down to write this article I was planning a review of Mickey's newest book on cassette systems. But I pulled out THE ADVENTURE REFERENCE GUIDE from the Mickey Schmitt section of my TI library by mistake and couldn't resist rereading it. Then I couldn't resist playing SORCERER (an INFOCOM game reviewed in the book by Mickey which I had started but never finished). Then I couldn't resist eating lunch, still thinking of the spells and magic items I needed to get out of the SORCERER.) Finally, I put all that stuff behind (more from frustration than feeling the noble urge to return to task) and got back to doing

this review. But I couldn't resist writing about this woman's profound adventuring influence first. Now, the "real" topic of this review: GETTING THE MOST OUT OF YOUR CASSETTE SYSTEM.

GETTING is based on the series of articles by the same name that appears in newsletters throughout the world. This entirely rewritten work is a professionally published, 8x11", 52-page, loose-leaf package, containing all the original (though updated and revised) articles that first appeared in her group newsletter.

Not only is this book handy for what it does, but Mickey has provided a way for user groups to make a few kopeks on it. She is offering this project for \$9.95 plus \$2.50 S&H to any individual or user group. User groups need only purchase a single copy. She grants the rights for the group to reproduce it entirely for members of the group free or as a fundraiser, providing no copies are given or sold to persons outside the group. Neat idea. Hope it catches on. The packages must be ordered directly from the author: Mickey Schmitt, 196 Broadway Avenue, Lower Burrell, PA 15068.

Now, what does GETTING get you?

First, a chance to rethink your group membership and future growth, because the cassette is still a powerful tool for a beginner or basic user. This book might just show your group new ways to attract new (or old) members into the fold.

Second, it opens one's eyes to lots of possibilities of cassetting previously unexplored. One of my TIs at school is cassetted, for example, and this book proved to be an immense help in ways I never dreamed of. More on this later.

Finally, this book made a multi-system user of me. I really only need one disk drive system to do all the tasks I do, but many times the system is tied up with heavy-duty printing or converting graphics or any number of long-time chores. Rather than sit and wait or go watch TV or clean my wallaby's teeth, I just move over to my OTHER TI SYSTEM! That's right. I have set my other console (\$3 at a yard sale) onto a TV with a tape recorder hookup. Many nights I now just use the SILENT tape recorder system for some utility or recreational use. And I'm finding more and more uses, including lots of cartridge (MINIMEM, LOGO, etc.) activities I had forgotten were so exceptional, even with tape. I have a sidecar 32K, though many people are putting the chip right in or making that chip part of a Zenoboard package. Anyway, with 32K and Will McGovern's CASSTRANS I can load ASSEMBLY games and utilities into my computer from tape. I can AUTOMATICALLY!!! locate and RUN programs from my tape recorder with Joseph Bartle's CS1*FINDEX. I have my cassette boxes labeled and a catalog on each tape, thanks to Mickey's LABEL and CATALOG programs. All this stuff, by the way, is in the book in short, easy to type in, clever programs. (Will's program is Fairware and in all group libraries.) No more being restricted to BASIC and XB files. Now I can play FREDDY from my tape recorder. No more searching for programs. I don't even need a tape recorder with a counter on it anymore. Now, like the Timex/Sinclair user, I can automatically run a program anywhere on a C-60 tape after locating it in the FAST FORWARD speed mode! In short, tape recorders have come of age. They can be powerful and fast and reasonably efficient and orderly.

Mickey's book is extremely non-technical. She explains everything about computer taping from the VERY beginnings to the state of the art. And it really might get you into that SECOND system.

(If you use NEW-AGE/99 please put me on your exchange list.)

TALES OF A POWER SUPPLY

By AL Beard, 9T9 Newsletter

Ever noticed your PEB gets really hot? Wished for a hard drive mounted in the PEB but know your PEB power supply can't handle it? Tired of your GENEVE and HDPC cards slowly turning brown around the power regulators?

I've been worried about it for quite some time... Tony Lewis advised me a while ago that the PEB power supply wasn't really designed for all these new drives and cards being mounted in them. After losing a power supply (and sending \$50.00 to TI to get a new one) I decided that the way to go was to replace the power supply with a new "switching" type supply.

TI designed the power supply around the technology of the time. The power supply is a "linear" supply. That means that your PEB has inside, a huge power transformer, with simple regulating circuits that provide the power to the bus in the TI computer.

A switching supply avoids the huge transformer and heat problems by switching the power on and off very quickly (this has caused some interesting problems in offices that contain large amounts of PC based equipment). Switching supplies are very cheap due to their wide applicability to PCs.

One mistake (in terms that it has caused untold grief for board designers of the PEB) is that the TI linear power supply is underpowered and generates too high a voltage for the cards on the

bus of the PEB.

This is what the TI PEB manual says the voltages going to the PEB bus should be out of the power supply:

Brown - +16v
Yellow - -16v
Green - + 8v
Black - Ground

Per the TI design, the cards you plug into the PEB must drop these voltages to something they can tolerate with their circuits:

+16v drops to +12v
-16v drops to -12v
+ 8v drops to + 5v

This isn't too bad, but the actual voltages I measured coming out of the TI supply were even higher than listed (I measured +20v instead of +16v, etc.). The drop in voltage means the cards must get rid of the excess energy somehow and that means HEAT!

Also, the power going to the floppy drive(s) is not adequate for two full height drives, or even one 5 1/4" hard drive. I wanted to mount a 5 1/4" drive along side a 1/2 height floppy drive for a complete self-contained machine.

A NEW SUPPLY

Browsing at the Trenton Computer Fair (in pouring rain) I found a Highland brand new power supply for \$50. Not a bargain, but I didn't want to trust this project to a used supply or one without a guarantee. The supply I picked up came mounted in a metal case ready to drop into an IBM AT compatible. Because it was mounted in a metal case, it came with a few extra goodies, like a

new power connector for the back of the PEB and a low voltage (and quieter) fan.

The supply I picked up is a 200 watt supply, which I decided would have enough for my PEB with full complement of cards.

I started this project on a Sunday evening by opening up my PEB (I have a spare so I wasn't too worried about destroying this PEB) and removing the following from the left hand power section of the PEB:

- a. Power Transformer (remove four nuts)
- b. Terminal strip (remove two nuts)
- c. Power connector (remove two screws)
- d. Power Supply (remove two screws and unsolder wires to PEB bus)
- e. Fan (remove four nuts)

I kept the wiring to the front power switch and to the fuse (new model PEBs seem to have removed the fuse on the rear of the PEB). I carefully cut the two wires from the front power switch and soldered the 120 VAC power connections to the power plug which goes to the new power supply.

Working on the new power supply, I unscrewed the low voltage fan and mounted it on the back of the PEB after first cleaning everything in the PEB (amazing how dirty it gets after six years!) using the four nuts which held the previous fan. I unsoldered the 110/220 VAC switch on the power supply and soldered the wires together (to force 110VAC) and taped the wires to prevent a short.

(continued on next page)

Deciding how to mount the new power supply took much of my time. I finally decided to use the plastic verticle mounting unit from the old TI PEB power supply, and drill a couple of holes and mount the new supply board to it. The new power supply then mounted vertically in the same manner as the old supply.

Fortunately, the new power supply came with several disk drive connectors (four to be exact). I removed one of the disk drive cables (cut it off).

The power supply also comes with connectors which are intended to plug into an IBM PC compatible motherboard. I also cut these off and removed all the wires except for the wires which had the following voltages:

- + 12V
- 12V
- + 5V
- ground

I then soldered these wires to the bus in the same place as:

- + 12V went to BROWN
- 12V went to YELLOW
- + 5V went to GREEN
- Ground went to BLACK

(Warning: If you decide to try this yourself, try and make sure that the cables going to the drive connectors are long enough to run behind the cards in the PEB. Mine were a bit short but were still usable.)

Next came the hard drive. I just mounted the hard drive and the floppy drive side by side in the PEB and ran the cables out of the box before putting the whole thing back together.

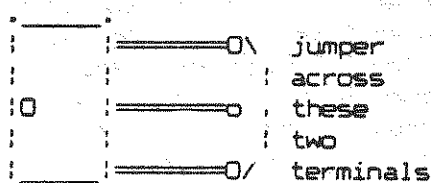
CARD MODIFICATIONS

Here is the nasty part of the power supply changeout, every card that you plug into the PEB will require a modification and the card with the modification cannot be plugged into as standard PEB without blowing out the card. Time for a nice BIG caution sticker on the card.

The modification is quite simple, and is because the cards no longer need to do their own power regulation. The power on the bus (+ 12V, - 12V, and + 5V) will have the right voltages for the cards to run. The modification involves jumpering out all the voltage regulators each board.

One way to do this is to remove all power regulators and then jumper across the contacts. I chose a simpler way which lets me remove the modification in the future if I so desire. (remember, also, at this point I wasn't quite sure this was all going to work!).

The voltage regulators have three prongs connected to a square body, and are usually located near the bottom of the card (usually one or two right next to the LED which sticks out the front):



The middle connection is ground, and should be left alone. I made up small jumpers for the outer two connections, and soldered all of them on the PC-side of the board.

RESULTS

I modified the GENEVE card, held my breath, and turned on the power. Relief followed as the normal GENEVE Swan Screen appeared. I then modified my HFDC card and plugged in the hard drive. The system booted normally (so far so good). Next I modified my TI disk controller (it was a bit hard to get the case apart) and plugged in the floppy drive. The floppy checked out fine. The last card I modified was a Myarc RS232, everything was OK.

I have several more cards to modify and try, including Ron Walters fabulous MEMEX 2-megabyte memory expansion card and a speech synthesizer card (somewhat useless in the GENEVE until the next MDOS release). I'm going to check with Ron on the memory expansion card.

SUMMARY:

Was it worth the trouble? Total project time was three evenings of about six hours total. My PEB runs cool and quiet and my cards are no longer turning brown. I have the peace of mind of a totally integrated computer within the PEB with a hard drive!

It was worth the trouble for me, and gave me a little respite from a long haul in programming.

Of course, I wouldn't try this yourself, unless you have a pretty good knowledge of computer hardware and power supplies. In any case you are on your own.

A.L. Beard

From the TI ORPHAN NEWS (BUG NEWS 12-90)

by Frank W. Alystock

"I have just received a new catalog from KB COMPUTER CONCEPTS and anyone interested in new games or if you liked the format of WHEEL OF FORTUNE you should see the version that is offered by them. The program SPINNER can be played by 1 to 3 people. The game comes with 120 phrases on disk, enough for 40 games. The program allows you to make up your own phrases. They will also accept your disks and will reimburse you at \$1.75 per disk. The game sells for only \$6.00. You might write to: KB COMPUTER CONCEPTS, % BERGMAN, 634 Parks Tower, 3001 West Bancroft St., Toledo, OH 43606"

From the CEDAR VALLEY 99'ER NEWSLETTER

(12-90) by Bob Wahlstrom
HAM RADIO AND THE TI-CW PROGRAM.....

"This is an answer to the questions Gary Bishop had in the November NEWSLETTER about the program that I purchased from AC5D COMPUTER PROGRAMS, Sam H. Moore, Sr., P.O. Box 368, Stigler OK. 74462. The version that I ordered was for use with the Mini-Memory. Another version is available for use with the memory expansion, disk drive and editor/assembler. At the same time I ordered it, the Mini-Memory and cassette version was the only one available.

"The way the program gets your transmitter keyed for CW is to use the earphone output jack on the T.V., or connect across the speaker. This signal then switches a relay which then keys the ham rig. This lets you see your transmission on the screen as well as hear the code transmission. I added a one transistor amplifier circuit before the relays and this seemed to make things work better.

"At the time I purchased this program I got in on a half price offer which got the price down to \$10.50 plus postage and handling. The program will work OK but you will need to be receiving a fairly strong signal with a minimum of interference.

RAVE 99 Co. after many delays expects to begin shipping their new PE/2 Professional Expansion system. The new unit has a system expansion bus for 32-bit

cards. The TI-99/4A and Geneve can use the "B" version of the PE/2, and the GENEVE alone occupies the "A" version.

The "A" version (Geneve only) supports up to 3- 5 1/4" half-height hard/floppy drives plus 2- 3 1/2" hard/floppy drives at a cost of \$309. plus s/h.

The "B" version (Geneve and 4A) can be installed in the same box. Supports 3- 5 1/4" half-height hard/floppy drives and 1- 3 1/2" hard/floppy drive. The CPU is selected by a front panel switch. The cost for the "B" unit is \$369. plus S/H.

Both CPU's can be running at the same time with the only limitation being that the peripheral cards can be used by only one CPU at a time. Where no disk access or printing is required (as in playing a memory resident game) you can have one system printing out reports from disk files while you are playing with the other system.

The TI and GENEVE on the PE/2 together require a composite monitor unless the TI is equipped with an RGB adapter such as the AVPC card or Mechatronics 80-col. card.

If you don't currently have a GENEVE, the PE/2 requires the purchase of a PC-keyboard at additional cost.

Delivery time for the PE/2 is 6-8 wks. and for more information contact RAVE at 203 871-7843, 112 Rambling Road, Vernon, CT 06066

MIDI Master interface.....

The MIDI interface designed by Mike Maksimik of the Chicago TI U.G. made it's debut. It supports 16 channels at the same time! The MIDI Master interface consists of a special cable, MIDI Master software and your RS/232 card and an electronic keyboard or other device with a MIDI port. The music can be written using a word processor or the keyboard can generate the score real-time. Even PC music files can be imported for use with the MIDI Master interface and saved to disk.

MIDI Master is available on cartridge for the TI or disk for the GENEVE. Both require a disk system and an RS232 port. The price is \$44.95 and Asgard says that a cassette version will be available in the future.

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For more information contact:
ASGARD SOFTWARE 703 255-3085
P.O. Box 10306, Rockville, MD. 20849

DataBioTics (order directly)
P.O. Box 1194 (for TI)
Palos Verdes Estates, CA 90274

SOME ADDRESSES AND PHONE NUMBERS for you
who can never seem to find them when you
need them.

BUD MILLS SERVICES, 166 Dartmouth Dr.
Toledo, OH 43614 419 385-5946
TI-COMM BBS 300/7/E 419 385-7484

HARRY T. BRASHEAR, 2753 Main Street,
Newfane, NY 14108

OPA (Gary Bowser), 432 Jarvis Street,
Suite 502, Toronto, Ontario, Canada
M4Y-2H3 416 960-0925

JP SOFTWARE, 1014 Pine Street, Menlo
Park, CA 94025 415 328-0885

T&J SOFTWARE, 515 Alma Real Dr.,
Pacific Palisades, CA 90272

NOTUNG SOFTWARE, 7647 McGroarty St.,
Tujunga, CA 91042 816 951-2718

TEXAMENTS, 53 Center Street,
Patchogue, NY 11772 516 475-3480 or
BBS 516 475-6463

COMPRODINE SOFTWARE, 1949 Evergreen
Ave., Fullerton, CA 92635
714 990-4577

L.L. CONNER ENTERPRISES, 1521 Ferry
Street, Lafayette, IN 47904
317 742-8146 (voice)
317 423-4879 (FAX)

9640 NEWS, P.O. Box 75-2465
Memphis, TN 38115

GREAT LAKES SOFTWARE, 804 E. Grand
River Av., Howell, MI 48843

BILL G. CHAVANNE (TI TAX)
4549 English Ave.
Ft. Meade, MD 20755 301 672-1980

COMPUTER BUYERS GUIDE
% Douglas Kilarski
P.O. Box 55886
Birmingham, AL 35255 800 366-0676

MICROpendium (\$25. 12 issues)
P.O. Box 1343, Round Rock, TX 78680

IDT (CorComp), 2211 E. Winston Rd.,
Suite G, Anaheim, CA 92806
714 635-1815 (be sure to call first
to get RMA for repair or availability
of product)

TIGERCUB SOFTWARE, 156 Collingwood Av
Columbus, OH 43213

ESD (Electronic Systems Development)
P.O. Box 23805, Washington D.C.
20026-380 301 322-6150
(New HFDC card)

MS EXPRESS SOFTWARE, P.O. Box 498,
Richmond, OH 43944

It's time to say good-bye as the news
letter editor of the West Penn 99'er. It
has been over five years including the
start-up newsletters. Most of it has
been fun, and I certainly have received
much from writing sixty-four consecutive
newsletters, with a minimum of 10 pages
each (gray hair). I've met or talked to
a whole lot of (interesting should cover
it) people. I've been called at every
hour of the day, night, wee morn time
(and have phone bills that my three
daughters may never match to prove it).
I've failed more times than I've suc-
ceeded (but I'll never tell exactly how
many). Through it all my first TI is
still running! There aren't many PC's,
Atari's, Commodore's, that could have
taken what I gave "and still keep tick-
ing"! I plan to use the extra 28 to 40
hours a month that the whole effort has
taken to learn more about what's goin'
on here at home. You'll still be hearing
from me.

PLEASE start sending articles to the
new NEWSLETTER EDITOR, Chris Pratt,
5613 Hawthorne St., Cheverly, MD 20785
(301) 322-6150

**GALACTIC EMPERORS
BY ERIC KEPES**

Would you like to challenge a few of your friends to match wits against you on your TI-99/4A computer? Then let MS Express Software introduce you to Galactic Emperors.

Galactic Emperors is a multi-player, strategic simulation program which can be played by two, three, or four players, each of whom is trying to defeat his opponents by gaining control of all the planets that are in the galaxy.

Just how many planets are there in these galaxies? Well, that can be any number between four and 50 planets, depending upon how many planets you and your opponents agree to have in any given game.

Played on a computer-generated playing grid, this game is guaranteed to be different every time, and with other random events occurring during game play, you never run the risk of playing the same game twice.

This program is ideal for those who love to mentally challenge their opponents...and just in case the pressure gets a little too hot...a save game option is available, so that you can continue play at a later time.

So, what are you and your friends waiting for? Order Galactic Emperors today, and find out for yourself just who is the best of the best!

Galactic Emperors requires a TI-99/4A console, a color monitor or color TV screen, a disk drive system (minimum configuration of 1 SS/SD drive), 32K memory expansion, and the Extended BASIC Module.

MS EXPRESS SOFTWARE

P.O. BOX 498, RICHMOND, OHIO 43944

GALACTIC EMPERORS	___ x \$9.95				
NAME:	SUBTOTAL				
ADDRESS:	OHIO TAX				
CITY:	\$1/ITEM S&H				
STATE AND ZIP:	GRAND TOTAL				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">WE ACCEPT MASTERCARD</td> <td style="width: 30%;">OR VISA</td> <td style="width: 40%;"></td> </tr> </table>			WE ACCEPT MASTERCARD	OR VISA	
WE ACCEPT MASTERCARD	OR VISA				
CARD NUMBER: <input type="text"/>	EXPIRATION: <input type="text"/>	<input type="text"/>			
MASTERCARD ORDERS PLEASE ENTER THE 4 DIGIT NUMBER OVER YOUR NAME: <input type="text"/>					
SIGNATURE OF CARD OWNER: <input type="text"/>					

VERY IMPORTANT INFORMATION FOR MEMBERS..

Please note that something has happened and YOU must make a change in YOUR way of doing things. Since January, marks a NEW and hopefully brighter year with the WEST PENN 99'ers, I hope we can ALL get off to an efficient start.

DO NOT SEND ARTICLES TO John Willforth since I will have to forward them (I never thought I'd be saying that).

DO SEND THEM TO Chris Pratt at 5613 Hawthorne Street, Cheverly, MD. 20785. Chris is the new Newsletter Editor!

DO NOT SEND DUES TO John Willforth, but rather send them to the TREASURER.

DO SEND DUES TO Lynn Gardner, 642 Lois Drive, Pittsburgh, PA 15236 (TREASURER) (\$10. associate, \$15. Full or Family for the period of one year Jan. 1, 1991 to Dec. 31, 1991.)

IF YOU HAVE ANY QUESTIONS ABOUT DUES please call or write to Lynn.

IF YOU HAVE ANY QUESTIONS ABOUT THE NEWSLETTER (not receiving, wrong address etc.) contact: Ralph Vasco or Judi Muir at: One Virginia Drive, Donora, PA 15033 or phone (412) 379-8762.

VERY IMPORTANT INFORMATION FOR U.G.s.

This is absolutely the first time that the WEST PENN 99'ERS has changed our address. I know how inconvenient it is to be changing/correcting addresses on perhaps 150+ U.G.'s and complimentary concerns as well as updating/correcting the membership databases.

Please do it this one time for us. And do it today. We don't want to miss a one of your newsletters. The CORRESPONDING SECRETARY will now receive and disburse the information from the various newsletters received. Please remove the name and address of myself: John F. Willforth and add the name: Michael Sealy, RR# 1 Box 184, Toronto, OH 43964. His phone number is (614) 282-5627

IMPORTANT FOR USER GROUPS WHO DO NOT EXCHANGE WITH WEST PENN 99'ERS.....

You will have to communicate with the corresponding secretary, Mike Sealy to continue receiving newsletters as gratis since the group may now keep a different and hopefully more accurate database than I. Thank You All. J.F.W.

WEST PENN 99'ERS

% MICHAEL SEALY
R.R. #1 BOX 184
TORONTO, OH
43964

ISSUE NUMBER 64
DECEMBER-1990



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