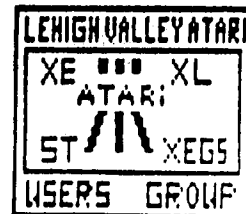




# L.V.A.U.G. NEWS



## MEMBER OF NEAR US

NOV-DEC-1996

ISSUE # 6

MERRY XMAS  
AND A  
HAPPY  
NEW YEAR



# Atari's Exponents

Matt Giwer, Annandale, VA

**MEETING NOTES  
OCTOBER 3, 1996**

Meeting called to order and opened in due form by President Art Paolini Jr.

Jon Mordosky our Vice-President reported that Atari is out of business as Atari for two months already and has one employee left to answer the phone and try and field questions. Jon has gone on the Internet recently and said there is lots of Atari hardware and software advertised for sale on it, also lots of free information for the downloading, lots of messages on E-mail for Atari B-bitters. At least 250 Atari sites are on the Internet.

Jon then demoed a hard drive with a 410 using a 130XE with expanded ram, it is so much faster than a floppy disk and it holds so much more information.

Art and Jon are going to try and get a phone line for next month's meeting and go on the Internet if it is possible to do so to show us the wonders and capabilities of the modern world of electronics.

Your editor remembers when he was a boy a long time ago, another kid with a "crystal set radio" was a genius and the envy of all us kids some of us who at the time didn't even have electric lights in our house. So in 75 years yours truly has seen a lot of different things take place. Unfortunately this is all the meeting notes for this time, but it certainly was a very interesting meeting and you and you should have been there, support your Atari computer club.

**Larry Tischbein  
Recording Secretary**

The exponential operator,  $\wedge$ , performs a very standard mathematical function, although if you are not familiar with mathematics you may not be aware of its potential. Also, there is another byte-saving use that I will save for the end.

The key to making full use of  $\wedge$  is to realize that in mathematical notation the square root of four is the same as four to the one-half power. In BASIC you can write either `SQR(4)` or `4^(1/2)`. So what good is that? Well, you might want to do a cube root, which would be `8^(1/3)`. Get the idea? Not believing that this works, you might have tried this by now and have noticed that the machine insists that `4^(1/2)` is not 2 but rather 1.998... something. It seems strange to accept a wrong answer from a very slow function.

To correct for this inaccuracy, we simply write the instruction `INT (4^(1/2)+0.01)`, and this will return the number 2. In return for this inaccuracy we get the ability to calculate very unusual powers and roots. The above could have been written `4^0.5` and the same answer returned. Also we could just as easily have written `4^0.4321` or `2^2.223` and have gotten an answer correct enough for many calculations. Also, those complex problems such as two to the five-thirds power `2^(5/3)` can be calculated with ease. So not only can we do the more common cube roots by using `^(1/3)`, but we can now also do an entire range of mathematical functions.

It is not only faster but more accurate to write `2*2` rather than `2^2`. If we are not doing mathematics, how do we make use of this? How about instead of writing a byte-consuming timing loop for a beep, we simply write `A = 1^1`? If the beep should last longer, then there is always `A = 1^1^1^1^1`, etc. It takes quite a while before this simple statement equals the number of bytes consumed by a timing loop. Thus the major drawback to more frequent use of  $\wedge$  can be turned to our advantage. ©

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**COMPUTE!**  
The Resource.

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# Atari Lister

LeRoy J. Baxter, Milwaukie, OR

*Debugging a long program listing can be tedious. Most of us have typed in a long program and then had to hunt for errors when it wouldn't RUN. This utility routine can make the job a little easier.*

Make a copy of this program and LIST it to tape or disk. When you need it, load it with the ENTER command (the line numbers shouldn't conflict). Then type GOTO 32700. A prompt will appear. Press RETURN, and the first set of six program lines will be LISTed to the screen, regardless of their line numbers, with spaces between the lines. Then with a touch of RETURN, it LISTs the next set of six lines.

Enter "EDIT," and the program goes to the Editing Subroutine. It asks for the line number of the offending line, then LISTs the line and prints

the command "CONT" below it. You can then edit the line using the screen editor keys.

When you press RETURN, the line will be entered into the program. You can enter or delete complete lines using standard techniques. Simply move the cursor up and enter your new line between the LISTed line and CONT. When you are done, enter "ERASE," and the utility program will erase itself.

```

32700 DIM A$(5),T=0
32705 Z=0: INPUT A$:ON (A$="EDIT")+ (A$
="ERASE")*2 GOTO 32730,32745
32710 ? CHR$(125):ADDR=PEEK(136)+PEEK
(137)*256:FOR X=0 TO T:ADDR=ADD
R+PEEK(ADDR+2)*(T>0):NEXT X
32715 LINENO=PEEK(ADDR)+PEEK(ADDR+1)*
256:Z=Z+1:IF LINENO>=32700 THEN
? " * END OF LISTING *":GOTO 32
710
32720 LIST LINENO:T=T+1:ADDR=ADDR+PEE
K(ADDR+2):IF Z<6 THEN 32715
32725 GOTO 32710
32730 ? "WHAT LINE #":INPUT X
32735 ? CHR$(125):POSITION 2,4:LIST X
: ? : ? : ? : ? "CONT":INPUT A$:POS
ITION 2,0:POKE 842,13:STOP
32740 POKE 842,12:T=T-6:GOTO 32705
32745 ? CHR$(125):POSITION 2,4:FOR X=
32700 TO 32750 STEP 5: ? X:NEXT
X: ? "POKE 842,12"
32750 POSITION 2,0:POKE 842,13:STOP C

```

January, 1983 COMPUTE! 191

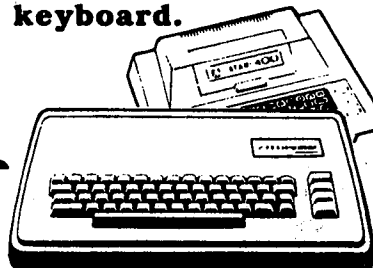
REMEMBER WHEN?



## Sit Back With SIDEWRITER



The Auxiliary Keyboard for the "Atari 400 or 800", which gives you the advantage of a Portable full stroke keyboard.



Whether you use the Sidewriter as a second point of entry or you just wish to sit back with your feet up, the Sidewriter goes where you go to give you the most from your Atari computer.

FOR  
INFORMATION  
CONTACT:

SCREEN **SONICS** INC.

14416 S. OUTER 40 RD. / CHESTERFIELD, MO. 63017  
(314) 434-0433

DEALER INQUIRIES INVITED

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Phone (215) 538-7356  
Fax (215) 538-7356

October 03, 1996



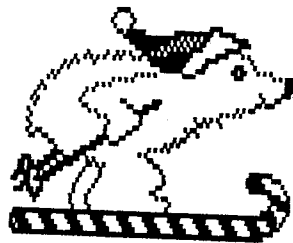
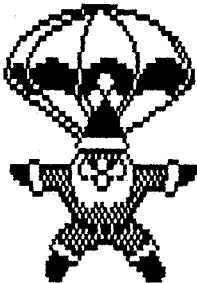
Need a special Christmas gift for that antique collector on your list? How about a copy of Warman's Glass, the encyclopedic listing of antique and collectible glassware by Larry T's daughter, Ellen. Special price for club members - \$18.00.

**OrderBlank**

I'd like to order \_\_\_\_\_ copies of Warman's Glass at \$18.00 each. Please inscribe them as follows: \_\_\_\_\_

No extra charge for inscriptions!

Mail order to Ellen Schroy, 135 S Main St, Quakertown, PA 18951-1119.



This utility program lets you control the speed and direction of LIST.

# Speed Limit For Your Atari

Mike Steinberg  
Brooklyn Park, MN

Speed is a virtue when you're running a program, but when you enter the command to LIST, and watch your work fly by...the virtue turns to vengeance! Having to enter line numbers and commas to create a section-by-section list is a real time waster...and what's the computer for if not to help you save time rather than waste it?

Line Pacer, will make listing and editing more effective and enjoyable, without the need of a printer, disk drive or assembler-editor. It's so simple to enter and use, you can have it up and running even if you've only read chapter one of the *Atari BASIC Manual*.

A few notes are helpful before you put Line Pacer to work. The program occupies lines zero through nine. This is necessary since most other programs begin on line ten or higher. This enables Line Pacer to co-exist with any program starting at line ten or higher.

Another handy feature is the ability to determine the speed at which your listing will progress. In order for Line Pacer to work, it must be recorded on tape (or disk) using the LIST rather than the SAVE command.

When you're ready to use Line Pacer, enter your main program first - making sure it starts at line ten or higher. Next, call up Line Pacer from the cassette or disk where you've stored it. Use the ENTER rather than the LOAD command.

Since Line Pacer is a program itself, when you hit RUN and return, Line Pacer will take over with its "read" mode. Once you've determined the number of lines, the SELECT button will control the forward movement and the OPTION button will allow you to backtrack.

The "edit" mode can be entered by pressing the BREAK key. Once you've made your edit, you can go back to Line Pacer by typing CONT and hitting the return key.

When you're done editing or reading and want to run your program, just type GOTO and the number of the first line of your actual program, hit RETURN, and you're off and running.

```

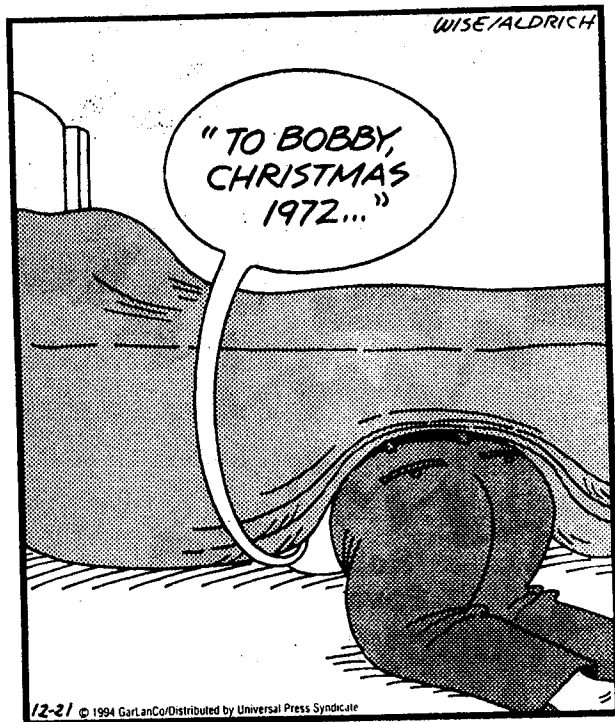
0 ? :? "{13 SPACES}LINE PACER
  (14 SPACES)":? :? "{4 SPACES}AN M.J.
  S.A. PROGRAM (C) 1981":? :?
1 PRINT " TO ADVANCE PRESS 'SELECT'";
  ? :? " TO BACKUP PRESS 'OPTION'":?
  :?
2 PRINT "PRESS BREAK FOR EDIT MODE":?
  :? "TYPE 'CONT' AND PRESS RETURN W
  HEN YOU HAVE FINISHED YOUR EDIT"
3 ? :? "HOW MANY LINES PER SELECT";:I
  NPUT LIN:? :?
4 FOR LST=9 TO 50000 STEP LIN
5 LIST LST+1,LST+LIN
6 IF PEEK(53279)=5 THEN GOTO 9
7 IF PEEK(53279)=3 THEN LST=LST-LIN:G
  OTO 5
8 GOTO 6
9 NEXT LST:GOTO 5:REM ** SHOULD BE CO
  DED ON TAPE OR DISK WITH 'LIST' AN
  D CALLED WITH 'ENTER'
  
```

## ► FARCUS



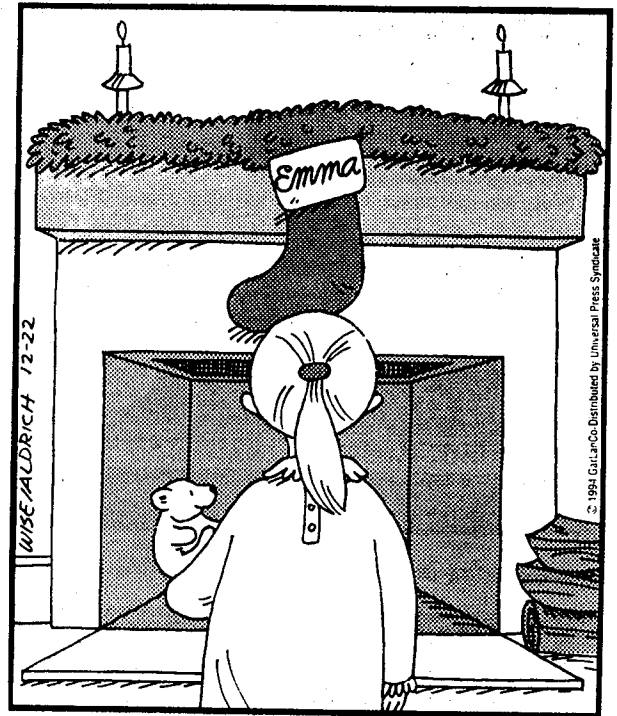
"Maybe it's your motherboard."

REAL LIFE ADVENTURES by Gary Wise and Lance Aldrich



The trick to hiding presents is remembering where you hid them.

REAL LIFE ADVENTURES by Gary Wise and Lance Aldrich

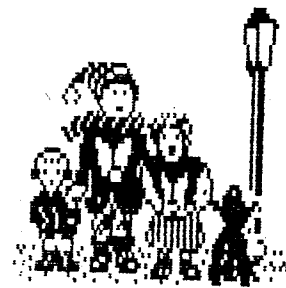


It's the time of year when you wish somebody in your family had really, really, really big feet.

REAL LIFE ADVENTURES by Gary Wise and Lance Aldrich



Holiday Breathalyzer test.



MERRY CHRISTMAS  
HAPPY NEW YEAR

POLITICALLY  
CORRECT  
SANTA

*Twas the night before Xmas and  
Santa's a wreck, how to live in a  
world that's  
politically correct!*

*His workers no longer would answer  
to "Elves," Vertically challenged  
they were calling themselves.*

*And labor conditions at the North  
Pole were alleged by the Union to  
stifle the soul.*

*Four reindeer had vanished, without  
much propriety, released to the  
wilds by the Humane Society.*

*And Equal Employment had made it  
quite  
clear, that Santa had better not use  
just reindeer.*

*So Dancer and Donner, Comet and  
Cupid were replaced with four pigs,  
and you know that looked stupid.*

*The runners had been removed from  
his sleigh, the ruts were termed  
dangerous by the EPA.*

*And people had started to call for  
the cops, when they heard sled  
noises on their rooftops.*

*Secondhand smoke from his pipe had  
his workers quite frightened, his  
furtrimmed red suit was called  
"unenlightened!."*

*And to show you the strangness of  
life's ebbs and flows, Rudolph was  
suing over unauthorized use of his  
nose! And had gone on Giraldo in  
front of the nation, demanding  
millions in overdue compensation.*

*So, halve of the reindeer were gone;  
and his wife who suddenly said*

*enough of this life, joined a self-  
help group, packed and left in a  
whiz, demanding, from now on, her  
title was Ms.!*

*And as for the gifts why he'd ne'er  
had a notion, that making a choice  
could cause such a commotion!*

*Nothing of leather, nothing of fur--  
which meant nothing for him, and  
nothing for her!*

*Nothing that might be construed to  
pollute; nothing to aim and nothing  
to shoot; nothing that clattered or  
made lots of noise; nothing for just  
girls or for just boys.*

*Nothing that claimed to be gender  
specific nothing that's warlike or  
nonpacific.*

*No candy or sweets, they were bad  
for the tooth, nothing that seemed  
to embellish a truth.*

*And fairytales, while not yet  
forbidden, were like Ken and Barbie  
better left hidden; for they raised  
the hackles of those psychological,  
who claimed the only GOOD was one,  
ecological.*

*No baseball, no football--someone  
could get hurt, besides playing  
sports exposed kids to dirt!*

*Dolls were said to be sexist and  
should be passe, and Nitendo would  
rot your brain away.*

*So Santa just stood there,  
dishevelled, perplexed, he just  
could not figure what to do next.*

*He tried to be merry, tried to be  
gay, but you've got to be careful  
with that word today!*

*His sack was quite empty, limp to  
the ground, nothing fully acceptable  
wa  
to be found.*



MERRY CHRISTMAS  
HAPPY NEW YEAR

Something special was needed--a gift that he might--give to all without angering the Left or the Right.

A gift that would satisfy with no indecision, each group of people, of every religion, every ethnicity, every hue, everyone, everywhere--even you!

So here is that gift, it's price beyond words: "May you and your loved ones enjoy "Peace on Earth."

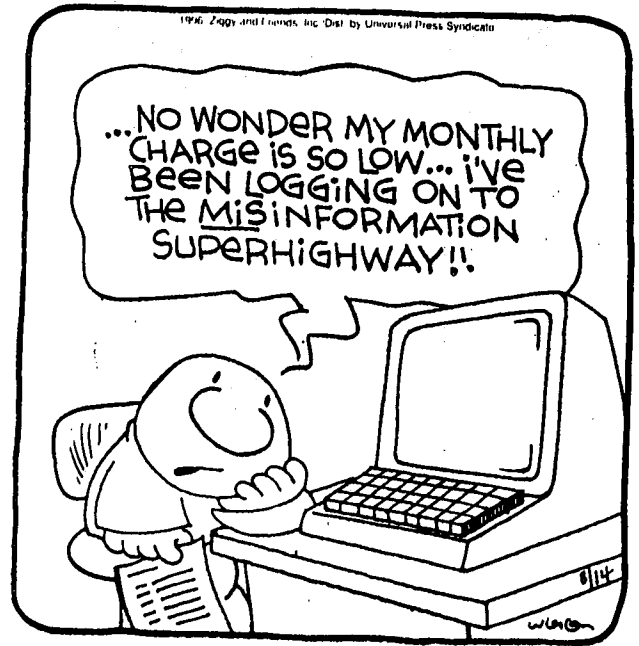
(Note: this poem is copyrighted by Harvey Ehrlich, 1992. It is free to distribute, without changes, as long as this notice remains intact. (Ed. it was copied from the late December issue of NUACE, A.P.) LVAUG editor copied it from Ol'Hacker's Newsletter of Jan-Feb. 1996.

**LEHIGH VALLEY  
INTERNET USERS  
GROUP**

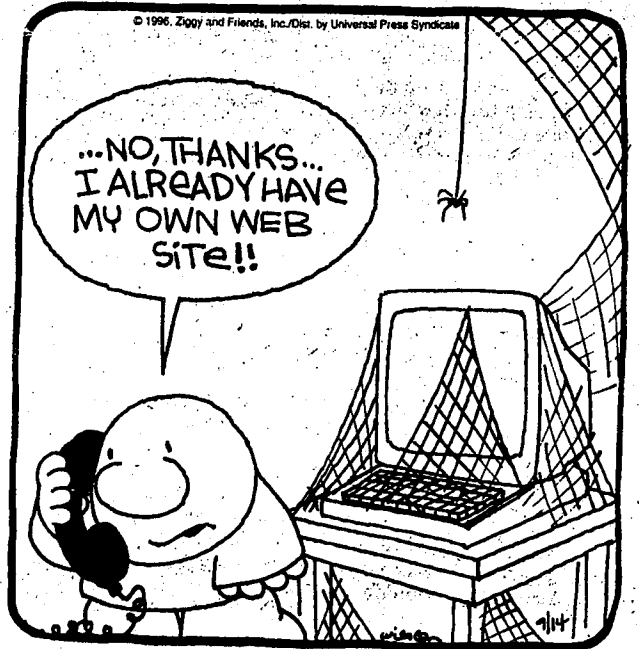
This friendly group of net users has already begun its series of fall meetings. They meet three times a month at 10.30 am the first Saturday of each month in the Whitehall Township Public Library, 3700 Mechanicsville Road and at 7 pm on the third Thursday of each month in the offices of ExecuTrain, off Route 100 and I-78, in the Iron Run Industrial Park. ExecuTrain's office are in the One Windsor Plaza building Suite 201.

They also meet electronically, on a special Internet Relay Chat (IRC) channel. More information on this group can be found at--  
<https://www.lviug.org> The group also posts notices of its meetings on several regional Usenet news-groups, including pa.lv.general

**ZIGGY**



**ZIGGY**



**SPEED BUMP**



**JANUARY**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 1   | 2   | 3   | 4   |
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| 12  | 13  | 14  | 15  | 16  | 17  | 18  |
| 19  | 20  | 21  | 22  | 23  | 24  | 25  |
| 26  | 27  | 28  | 29  | 30  | 31  |     |

**FEBRUARY**

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| 23  | 24  | 25  | 26  | 27  | 28  |     |

**MARCH**

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| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  |     |     |     |     |     |

**APRIL**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     | 1   | 2   | 3   | 4   | 5   |
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| 27  | 28  | 29  | 30  |     |     |     |

**MAY**

| SUN | MON | TUE | WED | THU | FRI | SAT |
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| 25  | 26  | 27  | 28  | 29  | 30  | 31  |

**JUNE**

| SUN | MON | TUE | WED | THU | FRI | SAT |
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**JULY**

| SUN | MON | TUE | WED | THU | FRI | SAT |
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| 27  | 28  | 29  | 30  | 31  |     |     |

**AUGUST**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
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| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  |     |     |     |     |     |

**SEPTEMBER**

| SUN | MON | TUE | WED | THU | FRI | SAT |
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| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  |     |     |     |

**OCTOBER**

| SUN | MON | TUE | WED | THU | FRI | SAT |
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|     |     |     |     |     |     | 1   |
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| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  |     |     |     |     |     |

**NOVEMBER**

| SUN | MON | TUE | WED | THU | FRI | SAT |
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| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  |     |     |     |     |     |     |

**DECEMBER**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
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| 6   | 7   | 8   | 9   | 10  | 11  | 12  |
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| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  | 31  |     |     |

LVAVG MEETING DATES

LEHIGH VALLEY ATARI  
USERS GROUP  
Post Office Box 796  
Whitehall PA 18052-0796



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LEHIGH VALLEY ATARI USERS GROUP  
Meets the first Thursday of every month at 7:30 P.M. at the  
Lincoln Technical Institute  
3151 Tilgham Street  
Allentown, PA 18105

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FIRST CLASS MAIL



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