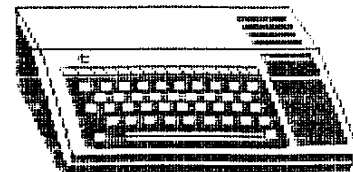




# K-TOWN 99'er

NEWSLETTER OF THE K-TOWN 99/4A USERS GROUP  
AND THE ATHENS COMPUTER CLUB

JANUARY 1993



THE K-TOWN 99'er IS A JOINT PUBLICATION OF THE K-TOWN 99/4A USERS GROUP AND THE ATHENS COMPUTER CLUB. EACH ARE NON PROFIT ORGANIZATIONS. ORGANIZED FOR THE SOLE PURPOSE OF GATHERING AND DISSEMINATING INFORMATION PERTINENT TO THE USE AND OPERATION OF THE TEXAS INSTRUMENTS' TI-99/4A HOME COMPUTER. WE ARE IN NO WAY AFFILIATED WITH TEXAS INSTRUMENTS OR ANY OTHER COMMERCIAL ORGANIZATION.

## COMMENT

The K-Town 99'er is published monthly for the benefit of the K-Town 99/4A Users Group membership specifically and the TI Community in general. The Articles in this newsletter to the best of our knowledge are factual but nevertheless the views expressed are the views of the author and

are not necessarily the views of the K-Town Users Group. Any article, unless stated otherwise, may be copied by other users groups and published in their newsletter providing credit is given to the author and the K-Town 99'er.

## K-TOWN JANUARY MEETING

### PLEASE NOTE

THE JANUARY MEETING WILL BE HELD AT THE HOME OF BILL SHERIDAN

We will meet at our usual time, the second Thursday of the month. The date is January 14th. The hour is 7:00 PM. The program will feature a demonstration of TELNET VIA DELPHI with Bill Sheridan in charge. This is our opportunity to again venture into the realms of TELECOMMUNICATIONS. We will also have a brief business meeting and Celebrate EM's 76th Birthday. No comments please!

## DUES / MEMBERSHIP

Membership in the K-Town 99/4A Users Group is open to any owner or user of the TI-99/4A Home Computer. Dues are TEN DOLLARS per year and subject to our fiscal year which begins April 1 and ends March 31 of each year. Dues are classified as family memberships. New memberships are prorated at

the rate of ONE dollar per month if less than a full year, except for the last five months of our fiscal year. There is a minimum fee of five dollars. Memberships are not prorated for current or former members. We welcome visitors.



# PRESIDENT'S FORUM

The program last month was interesting and valuable. The guided tour of the innards of TI-99/4a was fascinating for me since it was an exploration of territory that is strange and foreign, almost holy ground. Also my console is constantly being invaded by cracker crumbs and cigarette smoke and so the cleaning procedure is vital to its health. Our thanks go to Bob Buehler for making this available and to the Massachusetts UG that put on the show.

Having said that, and I meant every word, I must confess that the meeting will stand out as the time that we had stacks of Kitty's Christmas cookies. They were delectable, delightful, and just plain good!

This month we are in the happy situation of having available two good programs. We will do one and still be all set for February.

Bill Sheridan has invited us again to meet at his place this month and we have accepted. It is not hard to find - except for one or two of us - and the hospitality is great.

I will see you all on Thursday, January 14, at 7:00 at 1466 Hillvale Road. (SEE MAP INCLOSED WITH DEC.99'ER IF YOU NEED MORE INSTRUCTIONS.)

South Again this time, not North!

John H. Bull



## POTPOURRI BY BILL SHERIDAN



In the November issue of the GREAT LAKES COMPUTER GROUP, INC., I found an article called "TURBO SPEECH" by Stephen Shaw of Great Britain. I am not going to copy the article, but try to give you a condensed version. In the article he says that by using CALL INIT and CALL LOAD instead of CALL SAY, you can save 6 seconds. The CALL SAY routine holds everything up until it has finished speaking. But using the CALL LOAD, the computer gets on with the next chore while speaking. Thus the "dead time" is used. For comparison, he uses:

```
XXXX CALL SAY("#THAT IS INCORRECT#")
and to say the same thing
XX00 CALL INIT
xx10 S=-27648
XX20 CALL LOAD(S,70,"",S,65,"",S,72,"",S,70,"",S,64,"",S,80)
```

Address -27648 is the SPEECH WRITE address. We keep feeding it with bytes, and in due course the computer speaks. The bytes to feed to that address are found out as follows:

First, decide what you want to say from the standard vocabulary. Then look in the table (pg 422-427 in the Editor/Assembler Manual) for the address of that word or phrase. "THAT IS INCORRECT" is given as 6916. Reverse the four numbers and they become 6196. As we are dealing with decimals with our CALL LOAD, we add Decimal 64 to each digit in turn.

(6+64)=70; (1+64)=65; (9+64)=72; (6+64)=70

Indicate end of word by a 0. thus (0+64)=64

Finally, instruct the computer to speak by loading Hex 50, Decimal 80

Thus, now you can see where those numbers came from in the CALL LOAD command above. If the numbers contain Hex A-F, they have decimal value of:

A=10 B=11 C=12 D=13 E=14 F=15

Example:

For the word "or": Hex=4CDC reverse=CDC4 Decimal=76: 77: 78: 68  
(see line 1040 below)

I wrote the program below show how you may tell someone that they pressed a wrong key in an INPUT command statement.

```
800 INPUT "PLAY AGAIN? (Y/N)-> ":A$
910 CALL KEY(O,K,S)
815 IF S=0 THEN 910
820 IF A$="Y" THEN GOTO 900
830 IF A$="N" THEN GOTO 910 ELSE 1000
900 PRINT "YOU PRESSED 'Y'."
905 GOTO 800
910 PRINT "YOU PRESSED 'N'."
915 GOTO 800
1000 CALL INIT
1010 S=-27648
1016 CALL LOAD(S,70,"",S,65,"",S,72,"",S,70,"",S,64,"",S,80)
1020 CALL LOAD(S,79,"",S,64,"",S,64,"",S,71,"",S,64,"",S,80)
1030 CALL LOAD(S,77,"",S,74,"",S,72,"",S,66,"",S,64,"",S,80)
1040 CALL LOAD(S,60,"",S,70,"",S,70,"",S,65,"",S,64,"",S,80)
1050 CALL LOAD(S,66,"",S,75,"",S,76,"",S,71,"",S,64,"",S,80)
1060 CALL LOAD(S,76,"",S,77,"",S,76,"",S,68,"",S,64,"",S,80)
1065 CALL LOAD(S,70,"",S,71,"",S,72,"",S,65,"",S,64,"",S,80)
1070 CALL LOAD(S,70,"",S,72,"",S,71,"",S,68,"",S,64,"",S,80)
1075 PRINT "THAT IS INCORRECT. TRY AGAIN"
1080 PRINT "ENTER A 'Y' OR AN 'N'."
1085 PRINT
1090 GOTO 800
```

The above requires either X BASIC with 32k memory and Speech Synthesizer or Mini-memory with Speech Synthesizer.



## CHATTERBOX - XIII

BY BOB BUEHLER



Once is too much! Twice borders on the intolerable. So if I lose this third partial draft of CB-23, I might just cash in my chips and leave. Those two times I was going along well but it was getting late, past Mid-Night both times. So why not SF till tomorrow, then LF and continue. But, when 'tomorrow' came the diskette with Chatter Box-23 file was **EMPTY!** First time I didn't even have a print out. Second time, yes, so I'm beginning this third time from that. I've been trying to write about one of a dozen diskettes from Jim Peterson.

### JIM PETERSON'S CHOICES.

Like I told you in CB-21 (Nov), I sent for Jim's FREE six memory calculator program and some bucks extra for TIGER CLUB diskettes of his choice. The first to try and tell is *ROMSTEDT'S UTILITIES*, because that name stuck out in my mind like *REMBRANDT*. And it seemed like a good choice because it contained two labelers. I can always use a good labeler. One is named *DISCOVER*. It will catalog a disk and print file names and sizes on the front cover of a DSK envelop. Up to 127 files, which I think is a DSK maximum, but I can't find proof just now. I may find a use for this one, especially because I can make it work. The other labeler is *ELF*, meaning EASY LABEL FACTORY. It is full of versatility, I could use it

niceiy, but I can't make it work! Let's talk first about:

### DISCOVER

You might wonder how there would be enough room on a front diskette cover to print 127 file names, even using three columns. I wondered and then found out how. A line feed was used that made lines overlap so they could hardly be read! So, I set out to increase line spacing. Who needs to place 127 files on one DSK anyway? The search and change was my first fun with *ROMSTEDT'S UTILITIES DSK!*

I can't read the monitor well enough for this search and change so I printed all 820 LINES of X-Basic programming. Not soon found there it was in line 170, no where near LINE 670 where "PIO" was OPEN #3 or LINE 690

where printing actually began, and see the sneaky way it's done, however effective:

PRINT #3:PC\$item,item,item, etc.

So searching from the top for PC# I found in LINE 170 that there were six programming convenience equivalents. Example: S#CHR\$(27), meaning ESCAPE, and an easy way to achieve it for multiple programming uses. Then, with one eye tracing LINE 170 and the other eye seeking line feed code in the printer User Manual, I zeroed in.

There, the second equivalent in LINE 170 was:

PC#-CHR\$(15)&S#"SO"&S#"A"&CHR\$(5).

Here, S#"A"&CHR\$(5) was the command to line space 5/72". Changing 5 to 6 made improvement, then 7 got better, and finally 8 gave a readable print out.

That was my fun, the more so because I had studied PRINT CONTROLS and told you about them years ago in KINDER KORNER, and like I said at that time, I learned more from writing KINDER KORNER than anybody could have learned from reading it.

I didn't do so well with;

#### ELF, EASY LABEL FACTORY

For me it just wouldn't 'factor.' Almost, but not quite, and an almost label is no good. Too bad, too. It should be useful. It should make 3.5 X 15/16" labels with 5, 8, or 11 lines; or 4 X 23/16" labels with 8, 11, or 17 lines! What's more, each line of any label could be centered or not; with choice of Pica, Elite, Compressed, Expanded, Superscript, Subscript, Italics font; and Underlined, DELStrik, or Emphasized. Some of these can be combined, but a 'beep' sounds if you try any that can't be combined.

All this was so unbelievable that I could hardly wait to see results. I'm still waiting. In repeated attempts everything went great until I told how many copies I wanted. Then things went around in circles, asking again if I wanted to edit, to alter, or save to DSK, etc. Along the way I could see that the text I'd put into five lines was still in memory. Also after entering the desired number I could see the green light on GEMINI flickering, maybe twinkling as though it were **tying, and trying hard.**

By now I want ELF so bad that I printed out the 1600 LINES of X-BASIC, not with great expectation, yet with hope. At least I learned that BREAK POINT 940, which showed on the monitor when I stopped the program with FCTN 4 just after typing the desired number of copies, but before ENTER, sure enough was where N should be entered. There was no INPUT statement there, just ACCEPT AT. Now, again it's near Mid-Night so I'll SF the third time, hoping for better luck tomorrow as I check on ACCEPT AT in the X-Basic manual.

**Now it's tomorrow, in fact two tomorrows!--** Yes, ACCEPT AT is a way to enter stuff, and the manual offers a small program to illustrate. So that was no reason for ELF not printing labels.

Now I've traced the program print-out the best I can, but no dice! Maybe I can get John Bull to help, or Art Gibson, or anyone else who would like the challenge or the program. Any takers?

#### LOST AND NOT FOUND

This TIGER CLUB look-see began from my ordering Jim Peterson's 6-memory calculator. Now, wanting to try it some more toward possibly showing it at a K-Town meeting, THAT SUCKER IS LOST, DISAPPEARED, CAN'T BE FOUND! I've handled a bunch of diskettes since last using the calculator and have searched far and wide. Not found. By any chance did I loan it to someone in K-Town-99? If so please holler!

#### MANGLED METAPHORS

What finally broke the straw?  
Run up the flagpole and see if it sticks.  
You can't go out there cold turkey with egg on your face!

We took the thunder out of his sails.  
He sank to new heights.  
She hitched her star to his wagon.  
He's really rubbing it in our noses.  
I'm still green behind the ears.  
From an old Reader's Digest

#### RECIPES

With Thanksgiving past, and the left over turkey, good as it is, getting monotonous, a respite is needed. Well did you make that swell Fresh Cream of Tomato soup that I told you about way back in Chatter Box VI, and freeze several batches when tomatoes were abundant? We did, and it is just hit the spot this Sunday night! So now, while that frozen lump is thawing, let's try a good January recipe. Maybe there's a good, big, left-over ham bone, or a like amount of ham hocks in the store just waiting to go into:

#### SENATE BEAN SOUP

Now I wouldn't kid you; there are dozens of recipes for Senate Bean Soup, all authentic; guaranteed!! Maybe it depends on who is U.S. President. The one following came from *WOMENS DAY, NOVEMBER 1956*. Eisenhower was President then. Whose to argue with the Supreme Commander of the Allied Forces in Europe!! Yet, in due respect to other claimants, the following recipe is headed with lower case letters. But I hope the spoup is CAPITAL!

#### Senate Bean Soup

Whole ham bone with meat or like amount of ham hocks  
1 lb dried beans      3 Medium potatoes, mashed  
1 cup chopped onions    1 cup chopped celery  
2 garlic cloves, smashed

Soak beans overnight in water to cover, using a large top-of-stove kettle. Next morning add water to make 5 quarts, then add ham bone or hocks, and simmer for 2 hours. Add mashed potatoes, onion, celery, and garlic. Simmer 1 hour. Remove bone, cut off meat and return to soup. Season to taste (your taste, not Eisenhower's or even your favorite Senator, so I mean your's) with salt and pepoer. Makes 4 1/2 quarts.

BB, 12/16/92

#### LAST MINUTE STUFF

Well, I guess, but not necessarily in chrono order.

(1) Jim Petersons lost a memory calculator disk. I'd looked everywhere in all DSK files. No wonder it was lost. It had been tucked among CD's next to Chet Atkins. (2) ELF, Easy Label Factory I couldn't make work. I sent it to Art Gibson for help. He reported by t'phone that print commands were to blame, and he fixed 'em. Don't have it back yet. (3) I'd Underlined DISCOVERY on the Komstedt disk catalog and Art asked me why. So I told him how I'd cleverly correct line feed to make a catalog print out readable. Then Art revealed that I'd cleverly corrected

the wrong thing. Printing should have been in Superscript instead of Condensed. Then line feed would have been OK. (4) Senate Bean Soup: On Dec 17 I discovered some great ham hocks at Winn Dixie, all meat, no bone. They looked so good I bought twice what I needed, so then two, not one pounds of dried beans. Then I spent all waking hours making not one, but two batches of the soup. Ooooooh Sooooooooo Sooooooooo.

BB 12/19/92

## MINUTES OF DECEMBER 10, 1992

'twas another dark and stormy night. Big chance of ice and snow. Meeting in a different, unfamiliar place. Bill Sheridan's home. Mimosa Heights at Singleton turn off of Alcoa Highway. The kind of situation when I'm scared of my own driving! Lucky I am that EM Smith gave me a ride!

On arrival, there was Santa waiting on the porch. Dennis, newly moved to Sevmour, and John Bull were already there. Paul Blevin wisely chose to stay safely in far-off Rugby. Art Gibson had two cars disabled, I've since learned. Don't know about Joe Simmons. What are we going to do about those nice DOWATCH CALENDERS to which we have become accustomed? (Note: Joe must have given them out while you were in Wisconsin. I got mine; ems assistant to the editor.)

So we were five. Inside Bill's fine Christmas decorated home 'twas warm and snug. Coffee and cookies at the bar. Comfy chairs to watch the program and discuss items of TI importance. Who could ask for anything more?

The program was a Video tape demonstration mostly about cleaning a TI Console, the Beige model and the more familiar Silver-Black model. And did you know that the date of manufacture of your console is on the under side? I can't look just now but I plan to some day. The demo also recognized other cleaning materials including a Disk Drive head cleaner. (Don't remember where or when, I was told not to do this one 'till you're sure it's needed!)

The demo also showed how and where to substitute a resistor on the Mother Board to improve sharpness on the monitor. Later discussion was less than enthusiastic about this modification. Dennis Mackey was most knowledgeable about this, in fact he mentioned an alternative procedure, but don't count on me to explain!

Lastly the demo showed how to ventilate the power supply. This simply amounts to boring a pattern of holes

in the console cover to the right of the keyboard, at the area we often call the hand-warmer. Any design pattern. Your initials. Your choice. Of course you remove the cover from the console for this job! I wonder, though, about the risks of spills dropping through the holes directly on to the power supply circuit board! I'm going to keep my hand-warmer until further notice!

I may be partial 'cause I ordered the tape from M.U.N.C.H., but I think it was mighty well done. Clear and concise. Of particular note, use of cleaning solvents on the contacts was strongly discouraged because of possible residues. Erasers too, because of crumbs. Instead, strips of bond paper (the kind with a water mark) folded over a flat screwdriver blade, scrubbing dry until contacts are visibly cleaned.

This tape is available for loan to any K-Towner.

I had a chance to view Bill Sheridan's computer set-up. An entire room with lots of desk space and cabinet room for easy reach and run maneuvers!

We only made one wrong turn on the way home. Toward the airport instead of Knoxville, but back-tracked easily. EM thinks this happened because lights at 'The Pantry' a land-mark, were off in contrast to the lights on when going to Bill's.

We've been invited to hold our next K-Town meeting at Bill's. Lucky we are to have this fine spot the while we give EM Smith deserved respite.

Bob Buehler, Secy-Treas.

## LOST FILE

This is a tale of woe that I suspect a great many of us can sympathize with, maybe some can profit from, and there may even be someone out there who can help me with.

Keeping a roster of names, birthdays, addresses, and phone numbers for a large family of Bull relatives is my job. I have tailored an X/B program to create the data files on disk, edit them, and print them as needed. Over some time the roster has grown to about seventy entries

with eight fields in each. That is several hours of typing for both of my fingers.

The other night I typed in five or six new entries and got an error message that made no sense. Thinking to run down the error later, I tried to save what I had done to disk. The program PRINTs the data to disk by means of a subroutine at line 1300 that opens the disk file, PRINTs the data, and closes the file. Therefore, I typed RUN 1300. It ran but what I had neglected to remember was that the RUN command sets all variables to 0.

Now my data is still on the disk. The DSKU disk editor shows that it is all still there; but it might as well not be. Cataloging shows a file of zero length. I am going to have to type the whole thing all over again. Fortunately, I had printed out all the data up to those last five entries and so all is not lost. Several hours of typing lie ahead. Have you ever been there?

Lesson one: NEVER NEVER save an existing file to disk unless you are SURE that the data is in place in the program. The RUN command DOES clear all variables, particularly those arrays that hold your valuable data.

Lesson two: Really learn the details of how the file header on a disk works. Then, maybe, a little sector editing can recover the data if it has not been destroyed by further input to the disk.

You probably didn't really want to know about this but I had to get it off my chest.

John H. Bull



# STUMBLINGS

BY

JOE

SEMMONS

This past weekend and today I have been playing with Crowley's checkbook program, Multi-Plan and that Browse utility for TI-BASE. Since I have just completed playing with Browse and removed all the bugs that I am particularly interested in removing lets review it first.

If any of you have tried to utilize what I placed in our December newsletter, you will find that it just will not work as I presented it. As with most programs, one must enunciate properly and ENCASE will not substitute for ENDCASE!

Before I finally realized that a mis-spelling was my problem, I became acquainted with the command words MOVE, SCROLL, TOP, BOTTOM, IF, ENDIF and a fellow named Bill Gaskill. In the LA Topics newsletter he wrote four TI-Base Tutorials in 1988 and 1989 which gives one a good understanding of these commands from a different perspective than Faherty's (the author) and Martin Smoley's. So that you will have some benefit, I have copied them.

**MOVE-** The MOVE directive has a default value of 1.

This means that if you use only MOVE and not MOVE # where the pound sign is a value (a number) the file being USED will increment to the next record. If you type in MOVE 10, then the increment will go from the currently active record to the record 10 physical positions ahead. If a minus sign is placed in front of the number (MOVE -10) specified the increment is backwards in the file 10 records physically backwards in the file.

**SCROLL-** The directive (SCROLL 1,17) moves each line displayed on the screen upwards one line. If the directive is reversed (SCROLL 17,1), the scrolling would move downwards instead of upwards. This is a very neat tool in formatting your screen displayed output for data or information placed on the screen via the WRITE directive.

**TOP-** Makes the data file to go the first entry if it has not been sorted or to the least number or letter if it has been sorted.

**BOTTOM-** Is just the opposite of TOP as it will go to

the last record of the data base if it has not been sorted and to the highest number or letter if it has been sorted.

IF- Is familiar to us all; however if one does not and this conditional clause with a command line called ENDIF the program will not work.

To really see what is going on with the commands, load up TIBASE and one of your data files and then from the command line try out the above to see how powerful they can be.

Below is the revised listing of the BROWSE/C and INFSCR12/C commands files for those of you who are interested:

```
* BROWSE/C from LA/99ers 11/3/89
* USE XMASLST
SET HEADING OFF
SET TALK OFF
SET RECNUM OFF
DO INFSCR12
  SORT ON LN
TOP
LOCAL OK C 1
CLEAR
  WHILE .NOT. (EOF)
    DISPLAY 10 LN, FN, CT
    WRITE 1,2 "<Q>=QUIT <D>=F6BCK;
    <T>=FILE TOP"
    READSTRING 1,22 OK
    DDCASE
      CASE OK= "Q"
        CLEAR
        RETURN
        BREAK
      CASE OK= "B"
        MOVE -10
    CLEAR
    BREAK
    CASE OK= "T"
    TOP
    CLEAR
  BREAK
  ENDCASE
  CLEAR
  ENDWHILE
CLEAR
RETURN
* TYPE BY JNS 12/21/92

* INFSCR12/C TO BE USED WITH BROWSE
CLEAR
COLOR BLACK LIGHT-GREEN
WRITE 6,2 "<Q>=QUIT <B>=BACK 10;
  <T>=TOP"
WRITE 10,2 "<ENTER>=CONTINUE TO SCROLL"
WRITE 16,2 "To modify the items scroll;
ing requires one to modify the command;
  BROWSE/C and change the DISPLAYed;
  <Field NAMES>"
WAIT 10
```

```
COLOR BLACK DARK-YELLOW
WAIT 5
CLEAR
WRITE 9,5 " HERE WE GO AGAIN!"
WRITE 12,7 "A"
WRITE 13,9 "6"
WRITE 14,11 "A"
WRITE 15,13 "I"
WRITE 16,15 "N!"
WRITE 20,5 "WHY? MUST WE DO IT AGAIN??"
WAIT 2
COLOR WHITE DARK-GREEN
RETURN
```

I have also added BROWSE/C to my adaption of Martin Smolev's club roster program (TIBSYS/C). The specific files which will need to be modified are INFSCR4/C and SLCASE4/C to accomodate BROWSE.

Hopefully, by the time you read this article, I will have received the Horizon RAM disk which I ordered and paid for in advanced from Bud Mills back in May. He told me in June that he was getting a new board designed and manufactured and that it would be late August before he could ship the new kit to me. In September, he said it would be shipped soon. In November, after the Chicago Faire, he said he had a bug in the board and had to change two wire connections. He promised the board within two weeks. Now in December, he has said it would be shipped before Christmas. After all the nice comments everyone has given Bud, I keep wondering if I may have offended him in some way.

We keep wanting good material for our newsletters. If we could get permission to insert Chick De Marti's "Did you know that...?" articles we each would gain. He is good!

With Crowley's Checkbook program I am trying to change the program to keep track of my personal bills before I pay them and record the paying with his checkbook program. It continues to bomb! I will persever... With MultiPlan I have been playing with it to stimulate my creative financing. As I have often stated, MP is a fantastic cheat sheet to determine the end result of various financial schemes.

Emmanuel Methuselah: You have lived long and should know what the future will hold for those of us who are now to be led by the untried. Prior to WWII we had Roosevelt. Prior to the Korean Action we had Truman. Prior to Vietnam we had Kennedy and Johnson. Prior to run away inflation we had Carter. During Eisenhower's reign we had peace and prosperity. Reagan rebuilt our arm forces and starved off the RED Threat. Now, that we have the world in shape to rebuild, we are being led by the untried. Remember how England foundered after Churchill was deposed after he had won the war. EM you foretold that this was to be good for us. We shall see.

Enough stumblings, procrastinations, words of wisdom for this Tuesday the 22nd of December, 1992 at 11:30 P.M.... JNS.

K-TOWN 99/4A USERS GROUP

OFFICERS:

President - JOHN BULL	694-4750
V. President BILL SHERIDAN	970-3647
Sec/Treas - BOB BUEHLER	689-5326

COMMITTEE CHAIRS:

Equipment - E. M. Smith	687-8869
Publicity - John Bull	694-4750

NEWSLETTER EDITOR:

Bill Sheridan	970-3647
---------------	----------

Athens Computer Club  
 Rt. #2, Box 608  
 Etowah, Tennessee, 37331

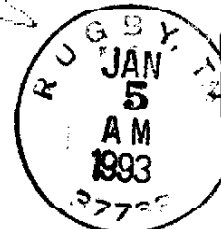
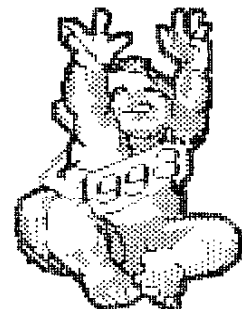
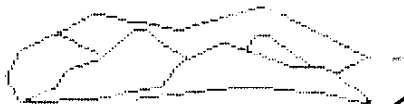
*1/3*

Officers:

President - Joe N. Simmons	263-2963
Sec/Treas -	
Librarian -	

RETURN TO:  
 K-TOWN 99/4A U.G.  
 3506 GARDEN DRIVE  
 KNOXVILLE, TN 37618

SMOKEY MOUNTAINS



DALLAS TI HOME COMPUTER CLUB

P.O. BOX 29863  
DALLAS, TX 75229

AND A HAPPY NEW YEAR!