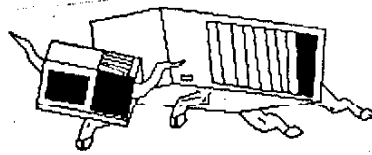


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President
Joe Slutz
5129 South Bonham
Amarillo, Tx 79101
359-7148

The Amarillo 99/4A Users Group.
P.O. Box 8421
Amarillo, Tx 79114

Vice President
Steve Eggers
5715 W. 50th
Amarillo, Tx 79109
353-6867

Users of the TI-99/4A and the Geneve 9640
Computer Systems.

Secretary / Treasurer
Samuel R.M. Burton
1323 Callahan
Amarillo, Tx 79101
352-4778

Editor

(Please Help!)

Technical Editor
Fred Dennis
1615 Lawson
Amarillo, Tx 79106
355-3868

Librarian
Jere Lawrence
8821 Columbia
Amarillo, Tx 79110
352-7353

JANUARY 1988 NEWSLETTER
VOL 8 NUM 1

JANUARY								FEBRUARY							
S	M	T	W	T	F	S		S	M	T	W	T	F	S	
1	2	3	4	5	6	7					1	2	3	4	
8	9	10	11	12	13	14		5	6	7	8	9	10	11	
15	16	17	18	19	20	21		12	13	14	15	16	17	18	
22	23	24	25	26	27	28		19	20	21	22	23	24	25	
29	30	31						26	27	28					

This newsletter is the official publication of the AMARILLO 99/4A USERS GROUP, a non-profit organization serving member/users of the Texas Instruments 99/4A HOME COMPUTER and compatibles.



* * * TEXAS INSTRUMENTS * * *

Do you have their number?

TI CARES : 1-806-842-2737
TI MANUALS : 806-741-2265
TECHNICAL ASS'T : 806-741-2663

AMARILLO 99/4A USERS GROUP
P.O. BOX 8421 AMARILLO, TEXAS 79114-8421

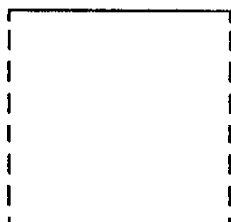
The Amarillo 99/4A Users Group (AUG) releases its newsletter 12 times annually in Amarillo, Texas. Material contained within this newsletter has been freely compiled from various sources (cited when ever possible). While every attempt has been made to provide high quality factual and interesting articles, the AUG and its editorial staff cannot accept responsibility for errors in advertising or text appearing in this newsletter.

The Amarillo 99/4A Users Group (AUG) is not affiliated with Texas Instruments and has no type of relationship with them, either implied or otherwise. We are an independent non profit organization. Views expressed in this newsletter do not necessarily reflect the views of the AUG.

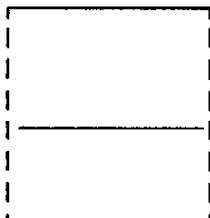
All correspondence should be mailed to:

Amarillo 99/4A Users Group
P.O. Box 8421
Amarillo, Tx 79114-8421

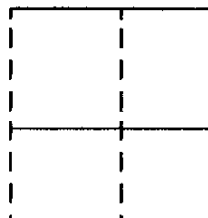
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For best results, each ad must be on white photocopyable media. The AUG is not held liable for any damages exceeding the cost of advertising.

Keep other TI99'ers in touch with your work by contributing articles, programs, tips, and helpful hints. If you want the TI community to grow and prosper your help is needed. The staff and officers of the AUG appreciate all the help you have given in the past. We welcome articles, tutorials and application stories. Length should be 400-500 words. We prefer delivery by mail or on 5 1/4 inch diskettes in TI-WRITER format. Original computer art work (TI-ARTIST, MACFLIX, or MAX-RLE files) are welcome! Please include a short biography and author's telephone number.

AMARILLO 99/4A USERS GROUP
P.O. BOX 8421 AMARILLO, TEXAS 79114-8421

From The President: Joe Slutz

I have considered getting a hard drive for my TI. The only problem is getting a controller. The hard drives seem to be readily available at the remarkable price of \$70. I could have ordered one but he (a fellow I was talking to about ordering the drive) said I would have a hard time finding the controller... he was right. I have not heard from him or have I seen hard drive controllers advertized anywhere. I'm still looking. The reason I decided to upgrade is because of the way the IBM machines themselves have become orphans. Think about it, since the introduction of PS/2 they have virtually forgotten MS-DOS based software. After all, the software available for that operating system is vast and now IBM isn't making it anymore... too bad. Now, with such good software coming out for our machine, I can do everything I need on the TI99/4A. It's Great!

Well, see you at the January meeting.

The Prez

=====

SECRETARY/EDITOR/TREASURER- SAMUEL BURTON

Well hello there gang!

Can somebody please take some of these titles and responsibilities off my back!?! I sure wish we could find some energetic new blood for the offices above. This January meeting is a great time to switch during elections (see list of candidates). I am now a family man and need more time to get used to it. Anyway, if you haven't noticed the newsletters have been getting harder and harder to complete on time. I have changed the format a little bit to make this issue a little easier to get to the presses. Do you think I can improve it in any way? Let me know at the next meeting.

Say the group has a working BBS now...PC-DATALINK. I am enclosing a list of several other known TI BBS's to call for programs and current info. If you find out any newsworthy stuff let me know and we can share it with the rest of the group.

Have you noticed the record number of TI users in the group? I am very happy to get to know all you new members!!!! You are the next wave of TI users making the machine a popular alternative to overpriced (and overrated) MS-DOS programs. The TI just keeps on a coming with updated programming languages and exciting new software. We are very fortunate to have hackers, electrical/hardware , and teachers in our group. Together we make the Amarillo UG a great place to start off learning about computers and programming! See you all at the next meeting.

AMARILLO 99/4A USERS GROUP
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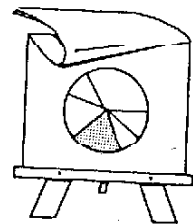
MINUTES: The December meeting meeting was called to order at 7:20 PM by Joe Slutz. Old business discussed was the need for a new newsletter editor. New Business is the election of officers. The January meeting will elect the new officers. The program for the evening included a demonstration of the MBX expansion system for the TI99/4A. Sam Burton showed the group how to hookup and use the speech recognition capabilities of the MBX to speak commands to the games. The disk of the month was a disk full of Christmas music and graphics in xbasic. Those who brought media were given copies. The meeting broke into a question and answer session and was closed at 8:55 PM.

Attending were: Joe Slutz, Carl Bourn, Walt Eddie, Frank Aleman, J.D. Stephens, Steve Eggers, Jake Fortenberry, Jere Lawrence, Larry Tyler, Charles Harris, Larry Nimmo, Fred Dennis, Terry Brown, Sisters Marie and Clare, Samuel Burton, Ron Sanders. A hearty welcome to Visitor J.D. Stephens - operator of PC-DATALINK. Special thanks to Frank Aleman and Larry Nimmo for renewing their memberships!!!

TREASURER'S REPORT : The club is financially sound with \$383.26 in the account. Back issues of the newsletter are not considered in this report.

FOR December 1 - January 1

CASH ON HAND, BEGIN	\$323.26	
CASH RECEIPTS	\$ 24.00	
CASH AVAILABLE	\$347.26	
CASH DISBURSED	\$ 47.00	(stamps)
CASH ON HAND, END	\$300.26	



SUBMITTED: SAM BURTON, TREASURER

NOMINATIONS COMMITTEE REPORT: The following people are being considered to serve as group officers for 1989.

President- Joe Slutz and Fred Dennis

Secretary- Carl Bourn and Sam Burton
Treasurer

Vice President- Ron Sanders, Sam Burton, and Steve Eggers

Editor- No takers as yet...how about you?

AMARILLO 99/4A USERS GROUP
P.O. BOX 8421 AMARILLO, TEXAS 79114-8421

Bits and Bytes by Burton

A local store called TARGET is offering a desk caddy for \$3.00. So you may ask... what do I do with a desk caddy? Well store diskettes of course! It happens to be just the right width for two diskettes side by side.

Wico adaptor are still available from Tenex for \$5.00.

Power supplies and TI console keyboards are available as surplus from Radio Shack (=\$5.00).

PC-DATALINK has lots of TI software available for download...sign now and get the latest software for the TI99/4a and GENEVE 9640. Call our BBS at 806-855-7918, tell them sam sent you!

Have you taken advantage of the group newsletter morgue at the Amarillo main library? Well take a look sometime to see what has been going on in years past. Another current source of TI information is MICROpendium magazine and the TI FORUM in Computer Shopper magazine.

ROUMOR MILL: There is a software program that emulates the MS-dos operating system for the GENEVE. It was supposedly demoed by a West German group at the TI-Fair in Los Angeles. Not enough information yet but that would be great news for all you GENEVE owners.

The International Geneve Users Group (IGUG) will be releasing its first newsletter in January 1989. The newsletter will be patterned after the defunct Oklahoma International 99/4A Users Group Newsletter before the newsletter became the Enthusiast 99 Magazine. All Geneve Users that have written to the Amarillo Users Group to show support for the new and separate group will be receiving copies of the newsletter latee this month. The IGUG requests submission of PD and shareware software for the 9040 in order to establish a solid software base that utilizes the powers of the GENEVE computer, an extensive collection of artwork and graphics have already been collected. Please let the word get out that we are now available as a GENEVE resource and support group. Membership to the IGUG is tentatively set at \$20.00 annually.

Recently received two calls about the TI topics:
A Mr. Zale Chambers from Huston who called about our users group. To his delight I was able to direct him to the Huston Users Group (HUG) and got him in touch with a group in his own town. An important lesson is to be gained here, all you users groups need to advertise in Computer Shopper in order to let people in your community know your available. Another good way to get free exposure is the local paper calendar of current events and cable TV. Try it, your membership can grow in '89!

The second call was from Mr. Glen Sia in Florida. He asks "...have you used or know about Master Paint 99? Its a great drawing package by Amerisoft." If you have an answer for him call 407-857-9070. Thanks!

AMARILLO 99/4A USERS GROUP
P.O. BOX 8421 AMARILLO, TEXAS 79114-8421

An Incomplete list of TI BBS numbers:

- BULLETIN BOARD SYSTEMS FOR TI -

CITY/STATE	SYSOP	A/C Phone #	Hours	TYPE OF PROGRAM
Toms River NJ	Jeanete Shader	201 929 8161 -	24 hours	A home-brew BBS prog with a nice touch !
Orlando FL	Brian Delany	305 831-5990 -	24 hours	TIBBS
Hazel Pk MI	Thom Thibodeau	313 544-0714 -		TIBBS
Detroit MI	Computer corner	313 544-7788 -	24 hours	TIBBS
Clauson MI	Craig Barton	313 751-1119 -		TIBBS
Taylor, MI	Jeff Thrush	313 292-6147 -		TIBBS
St Louis MO	Ron Courtois	314 878-4289 -		TIBBS
Wichita KS	Jerry McClusky	*316 681-3167 -		TIBBS
Lake Chas LA	Bayou TIBBS	318 474-6144 -		TIBBS
Atlanta #1	Ralph Fowler	*404 425-5254 -		TIBBS
Marietta, GA	Mreta TIBBS	404 955-2731 -		TIBBS
Atl GA	Ham Radio TIBBS	*404 363-1640 -	24 hours	TIBBS
		10 meg hard disk		
Tampa FL	Mike Carroll	813 677-0718 -	24 hours	TIBBS
Sheldon, IL	Wayne Durgess	815 428-3532 -		TIBBS
Pasadena CA		818 578-0678 -	Nights only	
SMDartmouth	Terry Atkinson	902 434-3121 -		
Nova Scotia				
Daytona FL	Dave Taylor	904 255-0326 -	24 hours	TICOMM
Savanna GA.	David Smith	912 354-0508 -		TIBBS
Middletwn NY		914 343-5076 -	Weekends	TIBBS
Sacramento Ca	SAC TIBBS	*916 927-3012 -	24 hours	TIBBS
Durham NC	Bull City TIBBS	919 383-8707 -		TIBBS
	Orphan Board	817-261-7466	300/1200	8N1
	Flug TEXTLINK	214-263-7648	300/1200	8N1
	99er Connection	214-233-1750	300/1200	8N1
	TINET BBS	817-581-1421	300/1200	7E1
	BASE NET II	615-837-8352	300/1200/2400	

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	BASE NETII	615-837-8352	300/1200/2400	

----- NEW RELEASES

J. PETER HODDIE HAS RELEASED TWO NEW PROGRAMS. THE FIRST HE CALLS MACFLIX. THIS PROGRAM ALLOWS ONE TO VIEW MACPAINT IMAGES ON THEIR TI-99/4A OR THE MYARC 9640. THE MACINTOSH MACPAINT PROGRAM CAN CREATE IMAGES IN FULL 8 BY 10 INCH FORMAT. THIS NEW PROGRAM WILL GIVE YOU THE POWER TO VIEW, PRINT, AND SAVE THE IMAGE IN DV80 FORMAT. INCLUDED IS THE ABILITY TO INVERT THE IMAGE. WHEN VIEWED BY THE 9640, HI-RES GRAPHICS ARE USED AND THE 9640 CAN DISPLAY MORE THAN A STANDARD MAC SCREEN. IT CAN SAVE IMAGES IN MY-ART FORMAT TOO! HE HAS RELEASED THE PROGRAM THROUGH GENIAL SOFTWARE AT P.O. BOX 183, GRAFTON, MA 01519. THE PRICE IS \$15.

THE SECOND PROGRAM HE CALLS THE JPH ASSEMBLER HACK AND IT IS AN ASSEMBLY LANGUAGE PROGRAMMERS TOOL. IT RUNS ON THE 9640 AND THE 4A WITH A SUPERCART. IT IS A NEW ASSEMBLER! IT CONTAINS FEATURES TO PRINT OUT ASSEMBLER ERRORS AND THE ABILITY TO PAUSE THE OUTPUT BEFORE IT SCROLLS AWAY. SINCE I HAVE NEVER RUN THE TI ASSEMBLER MYSELF, I HAVE TO LEAVE THE OPINION OF ITS WORTH TO THOSE THAT HAVE. HE HAS RELEASED THIS PROGRAM AS FAIRWARE AND HAS UPLOADED IT TO DELPHI AND GENIE. IF YOU DO NOT HAVE ACCESS TO THESE INFORMATION SERVICES, SEND HIM A SELF ADDRESSED, POSTAGE PAID DISK MAILER, AND IN HIS WORDS "IF YOU ARE FEELING GENEROUS THE \$10 FAIRWARE PAYMENT", AND HE WILL SEND IT TO YOU. YOU CAN WRITE HIM AT 12 PAUL REVERE ROAD, LEXINGTON, MA 02173.

ARTICLE COPIED IN ITS ENTIRETY FROM "THE PUG PERIPHERAL" THE MONTHLY NEWSLETTER OF THE PITTSBURGH USERS GROUP SEPTEMBER 1988 ISSUE, BY FRANK ALEMAN OF THE AMARILLO USERS GROUP.

MULTIPLAN by Audrey Bucher Part 10 -----

This month's column will be a short one with a few hints and tips.

If you have a MP data disk with more than eighteen files on it, you may have wondered how to catalog the disk as the screen will only show the first eighteen files when you use the arrow for a directory. From the NEW JUG NORTH comes the following instructions. When the eighteen files are displayed on the screen, place the cell pointer on the last filename and press REDO (function 8). The screen will redraw and display TRANSFER LOAD filename; where filename is the last filename of the previous directory displayed. The message line will now display "Enter a filename (arrow for directory)"

Press Function down arrow to display additional filenames beginning with the last filename on the previous display. Attempting to access (T)ransfer, (L)oad without any files on the disk or without a disk in the drive will cause the computer to lock up. To cancel the show directory command, press CTRL C.

Multiplan files are not necessary to test this function of the show directory command. Use any disk containing at least twenty or more files.

Another tip comes from Roanoke Valley. Once you start scrolling you can release the Function or Control key and just keep the arrow depressed. (The function and arrow keys scroll one cell at a time and the Control and arrow keys cause the cell pointer to scroll four cells at a time.) Scrolling did not work on the original MP disk. It is necessary to have the updates for this.

Next month we'll talk about Indexing. I have just learned to use this and have found it useful in keeping track of the golf scores that I wrote last month. We'll look at some of the other uses for this.

If anyone has any other uses for MP, please let us know. Always looking for new ideas.

copied in its entirety from "THE PUG PERIPHERAL" SEPTEMBER 1988 by FRANK ALEMAN.

EAST COAST COMPUTER SHOW - OUR 4TH YEAR

T.I.C.O.F.F.'89

Roselle Park High School

(EXIT 137 - GARDEN STATE PARKWAY)

Saturday, March 18, 1989

9:00 - 4:00

ALL PROCEEDS GO TO STUDENT SCHOLARSHIPS!

Admission: \$5.00

PRE-PAID ADMISSIONS GET A FREE DISK OF IBM-TI SOFTWARE - SEND CHECK & SASE TO TICOFF
185 W. WEBSTER AVE., ROSELLE PARK, NJ 07204

Huge Indoor Vendors' Area

Workshops - Fairware

Hardware and Software

I.B.M. - MS/DOS Compatibles - T.I.-99/4A
Winner - N.J.A.S.C. TOP 10 PROJECTS AWARD
Info: (201) 241-4550 / BBS: (201) 241-8902

T.I.C.O.F.F. USERS GROUP PARTICIPATION

**C/O Jay S. Leber
36 Fox Place
New York 11801**

(516) 796-8359

Dear User Group,

On Saturday, March 18th, 1989, we will be holding the Fourth Annual T.I.C.O.F.F. (TI Computer Owners Fun Fest) at Roselle Park High School, in Roselle Park, New Jersey. Walk in admission will be \$5.00. Tickets purchased in advance (by mail) will entitle the buyer to a coupon good for your choice of any disk in either the TI or IBM Public Domain libraries. These will be available at the fair, and will only be mailed if you cannot attend.

This year again T.I.C.O.F.F. will be both a TI and an IBM fair. There will be vendors of both operating systems attending. We would like to know if you are interested in User Group participation by sponsoring a table for your group. The cost of a User Group table will be \$25.00. This includes two badges, table and chairs, a pre-printed Banner with your group's name on it, and mention in our list of participating TI User Groups. Electricity will be supplied but you must bring your own equipment. If this is not possible please contact me about sharing equipment with another group.

You might want to use your time during the course of the day for program demos, videos, games, graphics displays, etc. Our only restriction is that your group cannot sell software or hardware that competes with any of the Vendors at the fair. You will receive a list in advance of all Vendors and Fairware currently scheduled to be there, soon. This is a good time for your group to sell memberships, Newsletters, Newsletter subscriptions, and Member written software.

We are contacting User Groups early to ensure support from fellow 99'ers. If your group cannot sponsor a table, you can still be a T.I.C.O.F.F. supporter by buying a booster for \$5.00. Your group will be acknowledged in our "Day Of Event" flyer as well as our T.I.C.O.F.F. Bulletin Board. For those with modems you may call the T.I.C.O.F.F. BBS at (201) 241-8902.

TIPS FROM THE TIGERCUB

#52

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

Distributed by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. May be reprinted by non-profit users groups, with credit to Tigercub Software.

Over 120 original programs in Basic and Extended Basic, available on cassette or disk, NOW REDUCED TO JUST \$1.00 EACH!, plus \$1.50 per order for cassette or disk and PP&M. Minimum order of \$10.00. Cassette programs will not be available after my present stock of blanks is exhausted. The Handy Dandy series, and Color Programming Tutor, are no longer available on cassette. Descriptive catalogs, while they last, \$1.00 which is deductible from your first order.

Tigercub Full Disk Collections, reduced to \$3 postpaid. Each of these contains either 5 or 6 of my regular catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - they are a free bonus!

TIGERCUB'S BEST, PROGRAMMING TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION GAMES, REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCABULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPE AND DISPLAYS

NUTS & BOLTS DISKS

These are full disks of 100 or more utility subprograms in MERGE format, which you can merge into your own programs and use, almost like having another hundred CALLS available in Extended Basic. Each is accompanied by printed documentation giving an example of the use of each.

NUTS & BOLTS (No. 1) has 100 subprograms, a tutorial on using them, and 3 pp. documentation. NUTS & BOLTS No. 2 has 108 subprograms, 10 pp of documentation. NUTS & BOLTS #3 has 140 subprograms and 11 pp. of documentation. NOW JUST \$15 EACH, POSTPAID.

TIPS FROM THE TIGERCUB

These are full disks which contain the programs and routines from the Tips from the Tigercub newsletters, in ready to run program format, plus text files of tips and instructions.

TIPS (Vol. 1) contains 60 original programs and files from Tips newsletters No. 1 through No. 14. TIPS VOL. 2 contains over 60 programs and files from Nos. 15 thru 24. TIPS VOL. 3 has another 62 from Nos. 25 through 32. TIPS VOL. 4 has 48 more from issues No. 33 through 41. NOW JUST \$10 EACH, POSTPAID.

* NOW READY *
* TIPS FROM TIGERCUB VOL. 5 *
* Another 49 programs and *
* files from issues No. 42 *
* through 50. Also \$10 ppd *

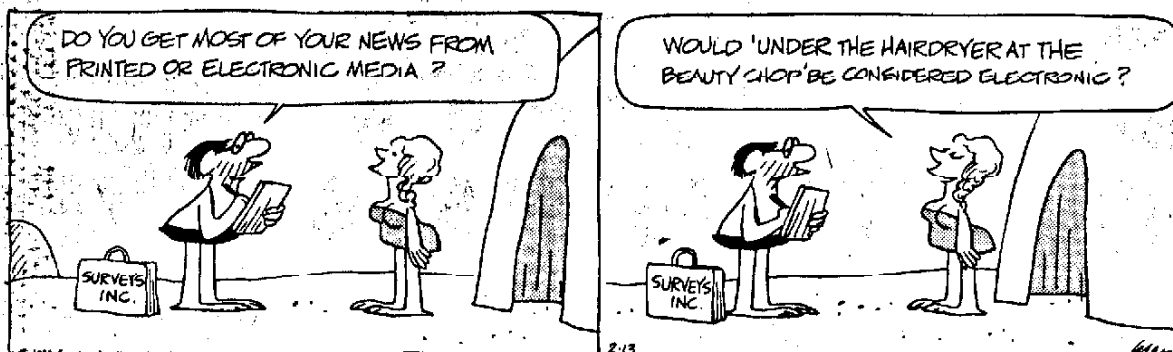
TIGERCUB CARE DISKS #1, #2, #3 and #4. Full disks of text files (printer required). No. 1 contains the Tips newsletters #42 thru #45, etc. Nos. 2 and 3 have articles mostly on Extended Basic programming. No. 4 contains Tips newsletters Nos. 46-52. These were prepared for user group newsletter editors but are available to anyone else for \$5 each. postpaid.

This one should come in handy for bowling league captains and Little League coaches.

```

100 DIM M(29,29),T$(30)
110 GOTO 130
120 N:Q#;J;I;X;P#;S#;K
130 !@P-
140 DISPLAY AT(13,7)ERASE ALL
:"LEAGUE SCHEDULER":;:"by the Burwells adapt ed by Tigercub"
150 DISPLAY AT(8,1):" This program sets up a "schedule for up to 30 teams,"so that each plays each:"other one e and only once."
160 DISPLAY AT(12,1):" If an odd number of teams:"are s cheduled, each gets one:"by e."
170 DISPLAY AT(16,1):"Number of teams?" :: ACCEPT AT(16, 18)VALIDATE(DIGIT):N :: IF N >30 THEN DISPLAY AT(18,1):"L IMIT OF 30!" :: GOTO 170
180 DISPLAY AT(18,1)ERASE AL L:"Schedule teams by name? Y " :: ACCEPT AT(18,25)SIZE(-1 )VALIDATE("YN"):Q# :: IF Q#="N" THEN 200
190 FOR J=1 TO N :: DISPLAY AT(20,1):"Team no.":J;"name? " :: ACCEPT AT(22,1):T$(J):: NEXT J :: GOTO 210
200 FOR J=1 TO N :: T$(J)="T eam No. "&STR$(J):; NEXT J
210 IF N/2<>INT(N/2)THEN N=N +1 :: T$(N)="bye"
220 DISPLAY AT(23,1):"Bchedu le by day, week, month:"or what?" :: ACCEPT AT(24,10):S # :: FOR J=1 TO N-1 :: M(1,J )=J+1
230 NEXT J :: FOR J=1 TO N-1 STEP 2 :: GOSUB 260
240 NEXT J :: FOR J=2 TO N-2 STEP 2 :: GOSUB 330
250 NEXT J :: GOSUB 390 :: S TOP
260 FOR I=1 TO N-2 :: IF M(1 ,J)-N THEN 290
270 M(I+1,J)=M(I,J)+1 :: GOT O 290
280 M(I+1,J)=M(I,J):: GOTO 3 00
290 NEXT I
300 X=I+1 :: FOR I=X TO N-2 :: M(I+1,J)=M(I,J)-1
310 NEXT I
320 RETURN
330 FOR I=1 TO N-2 :: IF M(1 ,J)=2 THEN 350
340 M(I+1,J)=M(I,J)-1 :: GOT
    
```

B.C.



```

350 M(I+1,J)=M(I,J):: GOTO 3
70
360 NEXT I
370 X=I+1 :: FOR I=X TO N-2
:: M(I+1,J)=M(I,J)+1
380 NEXT I :: RETURN
390 DISPLAY AT(12,1)ERASE AL
L:"Output to - 2":;" (1) Sc
reen":;" (2) Printer" :: ACCE
PT AT(12,13)SIZE(-1)VALIDATE
("12"):K :: IF K=1 THEN 440
400 DISPLAY AT(18,1):"Printe
r? P10" :: ACCEPT AT(18,10)S
IZE(-18):P# :: OPEN #1:P# ::
PRINT #1:"LEAGUE SCHEDULE":
:: FOR I=1 TO N-1 :: PRIN
T #1:S#;" #";I :: PRINT #1:T
*(1);" vs ";T*(M(I,1))
410 FOR J=2 TO N-2 STEP 2 ::
PRINT #1:T*(M(I,J));" vs ";
T*(M(I,J+1))
420 NEXT J :: PRINT #1:"" ::
430 NEXT I :: RETURN
440 FOR I=1 TO N-1 :: PRINT
TAB(7);"LEAGUE SCHEDULE":
:: PRINT "WEEK #";I :: PR
INT T*(1);" vs ";T*(M(I,1)):
: FOR J=2 TO N-2 STEP 2 :: P
RINT T*(M(I,J));" vs ";T*(M
(I,J+1))
450 NEXT J :: PRINT "" ::
PRINT "PRESS ANY KEY FOR NE
XT WEEK"
460 CALL KEY(O,K,S):: IF S=0
THEN 440
470 CALL CLEAR
480 NEXT I :: RETURN :: END

```

Some folks seem to think that the subprograms on my Nuts & Bolts disks are just flashy screen displays. Not so! This one will be on the next diskfull, if I ever get it full, which is most unlikely.

ACCEPT AT with a negative size is useful to accept a default string from the screen, but the length of the string is limited to 28 characters; and if you want something other than the default, you must be sure to delete any extra characters. CALL DEFAULT(R,C,M#,R#), where R and C are the row and column to accept at, M# is the default string which can be up to 254 characters long, and R# is the string accepted, will display the default string, accept it if Enter is pressed, or accept any other string without having to blank out the extra characters. Just don't type too fast!

```

100 M#="TESTING" :: CALL CLE
AR
110 CALL DEFAULT(12,1,M#,R#)
:: DISPLAY AT(24,1):R# :: GO
TO 110
1000 SUB DEFAULT(R,C,M#,R#)
:: R#="" :: X=ASC(M#)
10001 DISPLAY AT(R,C):M#
10002 CALL HCHAR(R,C+2,ASC(S
EG*(M#,1,1))):: CALL HCHAR(R
,C+2,30)
10003 CALL KEY(O,K,S):: IF S
=0 THEN 10002 ELSE IF K=13 T
HEN R#*M# :: SUBEXIT ELSE DI
SPLAY AT(R,C):CHR*(K):: ACCE
PT AT(R,C+1):R# :: R#*CHR*(K
)&R#
10004 SUBEND

```

CALL DEFAULT(R,C,N,RN), with N as the default value and RN as the value accepted, will do the same for numeric input, and will reject any non-numeric input. Errors due to fast typing can be prevented by omitting the DISPLAY AT(R,C):CHR*(K) in line 1002.

```

100 N=176435.BY7 :: CALL CLE
AR
110 CALL DEFAULTN(12,1,N,RN)
:: DISPLAY AT(24,1):RN :: GO
TO 9999
10000 SUB DEFAULTN(R,C,N,RN)
:: DISPLAY AT(R,C):N :: N#*S
EG*(STR*(N),1,1)
10001 CALL HCHAR(R,C+2,ASC(N
#)):: CALL HCHAR(R,C+2,30)
10002 CALL KEY(O,K,S):: IF S
=0 THEN 10001 ELSE IF K=13 T
HEN RN=N :: SUBEXIT ELSE DIS
PLAY AT(R,C):CHR*(K):: ACCEP
T AT(R,C+1):R# :: R#*CHR*(K
)&R#
10003 ON ERROR 10004 :: RN=V
AL(R#):: GOTO 10000
10004 CALL SOUND(200,110,5,-
4,5):: DISPLAY AT(R,C):N ::
ON ERROR STOP :: RETURN 1000
2
10005 SUBEND

```

Ed Machonis discovered an easy way to count the words in a TI-Writer file, using TI-Writer itself. Just put in a line before line 0001, with .LM 0;RM 1;FI;PL nnn with nnn being the sector length of the file multiplied by 40. Save it, go into the Formatter and print it to disk under a different filename. Return to Editor, load the result-

ing file, page through it with FCTN 4 counting any blank lines, subtract the number of blanks from the last line number, and that's it! The Formatter takes about one minute to count 1000 words. If the resulting file is very large, you may have to load it in two sections.

```

100 M#="POS WILL FIND THE FI
RST OCCURRENCE OF A SUBSTRIN
G WITHIN A STRING BUT I OFTE
N NEED TO FIND THE LAST OCCU
RRENCE SO I WROTE THIS SUBPR
OGRAM"
105 INPUT "SUBSTRING?":L#
110 CALL LAST(M#,L#,P):: IF
P=0 THEN PRINT "NOT FOUND" :
: GOTO 105 ELSE PRINT CCG*(M
#,P,255):: GOTO 105
120 SUB LAST(M#,L#,P):: X=1
130 Y=POS(M#,L#,X):: IF Y=0
THEN P=0 :: SUBEXIT ELSE Z=Y
140 X=Y+1 :: Y=POS(M#,L#,X)::
: IF Y=0 THEN P=Z :: SUBEXIT
ELSE Z=Y :: GOTO 140
150 SUBEND

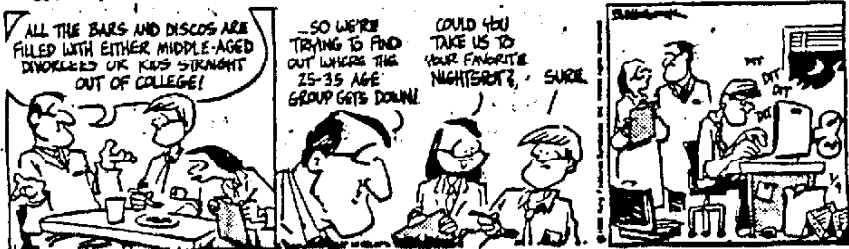
```

Here's a new way to make music. The algorithm in 110 sets up a 3-octave chromatic scale - note the N(1)-F, I have erroneously omitted it when I previously published that algorithm.

To change the key of the music you have programmed, just change the value of F. Lines 190-220 contain the part of the music that is repeated within the melody. A is the subscript of the melody note, B is the subscript number of the chord. These must be above 13, as the frequency is divided by 2 in the subroutine.

Each beat of the music has a ANSUB, to 230 to play a bass accompaniment with the first note of each bar, to 260 for the other notes of the bar. The chord note is divided by different values to play the three notes of the chord in succession, and multiplied by 3.75 in the 3rd voice to produce a bass note two octaves lower in the -4 noise. The melody note is multiplied by 1.01 in the second voice to give a richer tone.

ON THE FAST TRACK



```

100 DISPLAY AT(12,3)ERASE AL
L:"THE MAORI FAREWELL SONG"
! programmed by
  Jim Peterson
110 F=110 :: DIM N(36):: FOR
J=1 TO 36 :: N(J)=INT(F*1.0
59463094^(J-1)):: NEXT J ::
N(1)=F :: T=-999
120 GOSUB 190 :: A=30 :: B=2
3 :: GOSUB 230 :: GOSUB 260
:: GOSUB 260 :: A=32 :: B=28
:: GOSUB 230 :: GOSUB 260 ::
1 GOSUB 260 :: A=28
130 GOSUB 230 :: GOSUB 260 ::
1 GOSUB 260 :: A=30 :: B=23
:: GOSUB 230 :: GOSUB 260 ::
A=28 :: GOSUB 260 :: A=27 ::
1 GOSUB 230 :: GOSUB 260
140 A=28 :: GOSUB 260 :: A=3
0 :: GOSUB 230 :: GOSUB 260
:: GOSUB 260 :: GOSUB 230 ::
GOSUB 260 :: GOSUB 260 :: B
NSUB 190
150 A=30 :: B=23 :: GOSUB 23
0 :: GOSUB 260 :: GOSUB 260
:: A=32 :: B=16 :: GOSUB 230
:: GOSUB 260 :: A=28 :: ANS
UB 260
160 A=33 :: B=23 :: GOSUB 23
0 :: GOSUB 260 :: A=32 :: GO
SUB 260 :: A=25 :: B=13 :: G
OSUB 230 :: GOSUB 260 :: BOS
UB 260
170 A=27 :: B=23 :: GOSUB 23
0 :: GOSUB 260 :: GOSUB 260
:: A=28 :: B=14 :: GOSUB 230
:: GOSUB 260 :: GOSUB 260
180 B=28 :: GOSUB 230 :: BOS
UB 260 :: GOSUB 260 :: B=16
:: GOSUB 230 :: GOSUB 260 ::
GOSUB 260 :: GOTO 120
190 A=32 :: B=28 :: GOSUB 23
0 :: GOSUB 260 :: GOSUB 260
:: A=28 :: B=16 :: GOSUB 230
:: GOSUB 260 :: A=30 :: BOS
UB 260
200 A=32 :: B=28 :: GOSUB 23
0 :: GOSUB 260 :: GOSUB 260
:: B=16 :: GOSUB 230 :: GOSU
B 260 :: GOSUB 260 :: B=28 ::
1 GOSUB 230 :: GOSUB 260
210 A=30 :: GOSUB 260 :: A=3
3 :: B=23 :: GOSUB 230 :: GO
SUB 260 :: A=27 :: GOSUB 260
:: A=28 :: B=16 :: GOSUB 23
0 :: GOSUB 260 :: GOSUB 260
220 B=28 :: GOSUB 230 :: BOS
UB 260 :: GOSUB 260 :: B=16
:: GOSUB 230 :: GOSUB 260 ::
GOSUB 260 :: RETURN

```

```

230 CALL SOUND(T,N(A),5,N(B)
/1.585,9,N(B)*3.75,30,-4,9)::
1 GOSUB 290
240 CALL SOUND(T,N(A),5,N(B)
/1.334,9,N(B)*3.75,30,-4,9)::
1 GOSUB 290
250 CALL SOUND(T,N(A),5,N(B)
/2,9,N(B)*3.75,30,-4,9):: GO
SUB 290 :: RETURN
260 CALL SOUND(1,N(A),5,N(A)
*1.01,5,N(B)/1.585,9):: GOSU
B 290
270 CALL SOUND(T,N(A),5,N(A)
*1.01,5,N(B)/1.334,9):: GOSU
B 290
280 CALL SOUND(T,N(A),5,N(A)
*1.01,5,N(B)/2,9)
290 FOR D=1 TO 20 :: NEXT D
:: RETURN

```

MEMORY FULL.....
Jim Peterson

Amarillo group seeks Geneve 9640 users

The Amarillo 99/4A Users Group is trying to form a strong Geneve 9640 support group, according to Samuel R. M. Burton, the groups secretary and editor. He says the group has two Geneve users in Amarillo and three others correspond with the group, which would like to get in touch with others. Burton says the group is willing to provide starter packs for new groups of 12 or more "fledglings." For further information, write the Amarillo 99/4A Users Group, P.O. Box 8421, Amarillo, TX 79114.

USERS GROUPS

The latest in Word Processors.

In our role as industry watchdog we are always on the lookout for new solutions to old problems. One intriguing example that was brought to our attention is illustrated below. It's the latest in word processors, and does away with old fashioned keyboards and keyboards. The makers claim it is truly portable, solar powered, biodegradable, pocket-sized and completely safe.

It is permitted on aircraft and in explosive environments. It is allowed in most security areas. No harmful radiation is known to emanate from it and it does not interfere with TVs or radios, or indeed with any other form of electronic or heavy wire equipment.

However, it does require a bit of skill to use, although we are assured that anyone can master the operating principles. For more information contact your local news agent.

Labels in the diagram include: editing cursor - character delete module, power supply, user interface, character generator - graphics cursor, input from style and spelling software module, paper burst, output module, output interface, and output module - graphics table.

*** AUTO LOAD PROGRAM: by Rod Cook

Here's a program that I've run across from several sources and I think it is quite ingenious as to how it accomplishes its task. Unfortunately, I don't know who the author is so that proper credit can be given. But to whoever you are, nice job.

This program requires the complete expanded system with Extended BASIC except for RS232 card. You are first asked which disk drive to access. Then the program reads the directory of the selected disk and builds a load menu for any file that is in a program format. You then select the program you desire by entering the corresponding number. The program then constructs a RUN "DSK.." statement in memory then does the statement.

Following is the listing for the program. I've tried merging this program with other programs and have had problems.

```
10 CALL SCREEN(5)
20 FOR I=1 TO 8 :: CALL COLOR(I,16,5):: NEXT I
100 OPTION BASE 1
110 DIM PG$(20)
120 IMAGE ##
130 CALL CLEAR
140 DISPLAY AT(12,6)ERASE ALL:"DISK? (1-3): 1"
150 ACCEPT AT(12,19)SIZE(-1)VALIDATE("123"):D$
160 OPEN #1:"DSK"&D$&".",INPUT,RELATIVE,INTERNAL
170 INPUT #1:N$,A,A,A
180 DISPLAY AT(1,8)ERASE ALL:"DSK"&D$&" - "&N$
190 I=0
200 FOR X=1 TO 20
210 I=I+1
220 IF I>127 THEN 32767
230 INPUT #1:P$,A,B,B
240 IF LEN(P$)=0 THEN 300
250 IF ABS(A)<>5 THEN 230
260 DISPLAY AT(X+2,10):USING 120:X
270 DISPLAY AT(X+2,14):P$
280 PG$(I)=P$
290 NEXT X
300 DISPLAY AT(X+2,10):USING 120:X
310 DISPLAY AT(X+2,14):"TERMINATE"
320 DISPLAY AT(X+3,14):"CHOICE? 1"
330 ACCEPT AT(X+3,22)SIZE( 2)VALIDATE(DIGIT):K
340 IF K=X THEN END
350 IF K<1 OR K>20 THEN 320
360 IF LEN(PG$(K))=0 THEN 320
370 CLOSE #1
380 CALL CLEAR
390 REM RUN STATEMENT MODIFIER
400 CALL INIT :: FOR Y=1 TO 16 ::
S$=SEG$("DSK"&D$&". "&PG$(K)&RPT$(CHR$(0),10),Y
,1):: CALL LOAD(Y-41,ASC(S$)):NEXT Y
410 CALL LOAD(-41,5+LEN(PG$(K)))
420 RUN "DSK1.ABCDEFGHIJ"
```

Lines 10-130: initializes the program

Lines 140 and 150: asks and gets disk drive number

Lines 160-180: opens file #1, reads and displays disk name

Lines 190-290: sets up loop to read directory, quit loop if find a file of length 0, skip non program files, display the file names that are OK and build array PG\$.

Lines 300-330: display ending of load menu and accept your choice.

Lines 340-380: check if input OK, close file #1 and prepare for next screen.

Lines 390-410: Builds the new RUN statement.

Line 420: loads the requested program.

THE PHILADELPHIA AREA TI-99/4A USERS' GROUP (Dec '88)

MACFLIX
Pm Northcoast 99ers
Cleveland, Ohio
By Deanna Sheridan

We thought we had "arrived" when Travis Watford developed the MAXRLE and we could view and download the many digitized RLE pictures available on CompuServe, GENie, etc. The new MAXFLIX written by J. Peter Hoddie and distributed by Genial Computerware gives us another powerful graphics viewing program, this time for MacPaint pictures.

These are usually full-page pictures and even on my MSDOS machine with 80-columns, I am unable to see the entire picture at one time. I have downloaded lots of these pictures, but was unable to find any real use for them, except to print out. I have been unable to find, at least on public bulletin boards, any utilities to transfer them into other graphics programs where they could be used for clip art.

MACFLIX for the TI lets you view them, print them and clip them. Just as on my Leading Edge, it is impossible to see the entire screen at one time, and you must scroll across and up and down. The best way to get an idea of what it looks like is to make a printout. The program supports Epsoms & compatibles and Prowriter printers. You can print in your choice of 3 densities, but are warned that option 1 will cut off part of the picture, and option 3 will make it look elongated. So, with option 2, print out and see what you have.

You can save the portion of screen in view to disk in TI-Artist format. I found a disk of Christmas characters which I did just that and retrieved 8 clips for a Christmas disk. There seems to be a wide variety of pictures available and we will no doubt soon have a special section in our library just for MacPaint pictures (who would have ever thought?). Most of the ones I have are drawings rather than digitized pictures like the RLE's. Thus those which are "clippable" are much clearer and of general use than the RLE's.

The docs state that if you have a CosComp or Myarc disk controller and PC Transfer, you can take IBM disks with MacPaint pictures and transfer them for the TI. I don't have the right disk controller or PC Transfer, but I do have a cable between my TI and my Leading Edge. I fired up both machines with a Terminal Emulator program in each. I sent some Macpaint pictures over via Inodem, which results in a DIS/FIX 128 format. I held my breath, fired up MACFLIX and tried loading one of the files. There it was, just the same as on my other machine. Suddenly I found myself with 3 disks of MAC pictures for

my lowly TI. I will download some more from the local bulletin board to which I subscribe and we should soon have a good start on a MAC library for the club.

This program is written in assembly and only \$10.00 plus \$1.00 SH from Genial Computerware, P.O. Box 183, Grafton, MA 01519. Note: I sent a personal check because I was in no hurry to get the program and it took six weeks. If you want faster delivery, I would suggest a bank check or money order.

When I first wrote the above, I had not explored all the possibilities this program offers for us TIers. Did you ever think there would be a day when you could utilize the various graphics for PrintMaster, Printshop, Newsroom, etc. on your TI? I have even discovered that I can reverse the procedure and use my TI graphics on those MSDos programs.

I found an MSDOS program called "ICONVERT". This converts Printmaster, Printshop, Newsroom, Macprint, RLE's and many more from any of the above to any of the above. I have several libraries of PrintMaster graphics and decided to give it a whirl. ICONVERT will take a set of PrintMaster graphics which usually are 120 individual graphics and automatically convert the first 50 of them to MacPaint format. I can convert the remaining by choosing the graphics individually. Thus, it takes 3 files of MacPaint to use up one set of PrintMaster graphics. You can send them over just as described above. They are saved on a sheet which can be "clipped" out to TI-Artist. I have 26 of these files already and am just getting started.

Since this works so well, I wondered if I could send some of my TI graphics over to the Leading Edge for use with Printmaster (the only program I have). I took some TI-Artist files in program format. Loaded them into MAXRLE and resaved them in DF/128 format. I used the same method as above to send them over to the LE. I was able to view them with one of the RLE viewers I have for that machine. With ICONVERT I can put them in PrintMaster format and use my TI graphics over there.

People who have gotten rid of their TI's when they got MSDOS machines are going to be sorrrry.

AMARILLO 99/4A USERS GROUP
P.O. BOX 8421 AMARILLO, TEXAS 79114-8421

SWAP AND SELL

SYSTEM: CONSOLE, PE BOX, 32K, SPEECH SYNTHESIZER, XBASIC, GEMINI
PRINTER AND CARTRIDGES...MAKE OFFER FOR ENTIRE LOT CALL GARY VESELICA
AT 517-529-4400 TELL HIM YOU SAW IT IN THE AMARILLO NEWSLETTER!

MODEM: 300 BAUD SIGNALMAN MARK III...MAKE AN OFFER CALL SAM AT 352-
4778 AFTER 6 pm.

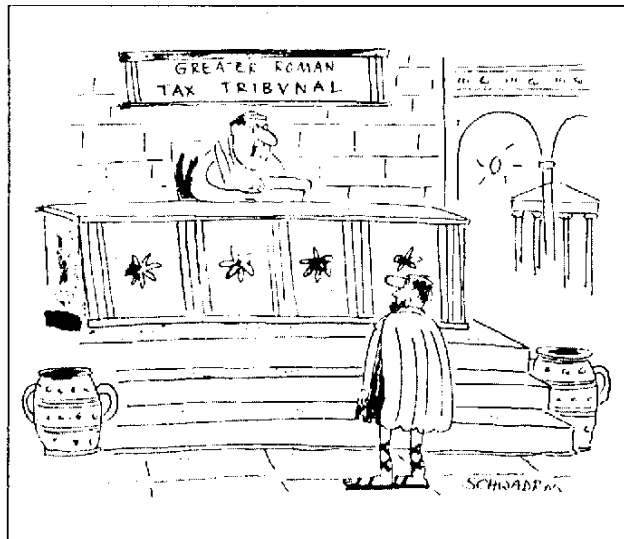
System:CONSOLE, PE BOX, 32K, and Software...Make offer,No DEALERS
PLEASE! CALL Maurice Villano 814-238-0396.

WANTED: TI EQUIPMENT FOR LOCAL ELEMENTARY SCHOOL. IF YOU KNOW ANYONE
WILLING TO DONATE TI EQUIPMENT CALL SAM BURTON AT 352-4778. ESPECIALLY
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NEED A SHEILD FOR YOUR SHUGART DISK DRIVE? CALL FRED DENNIS 355-3868.

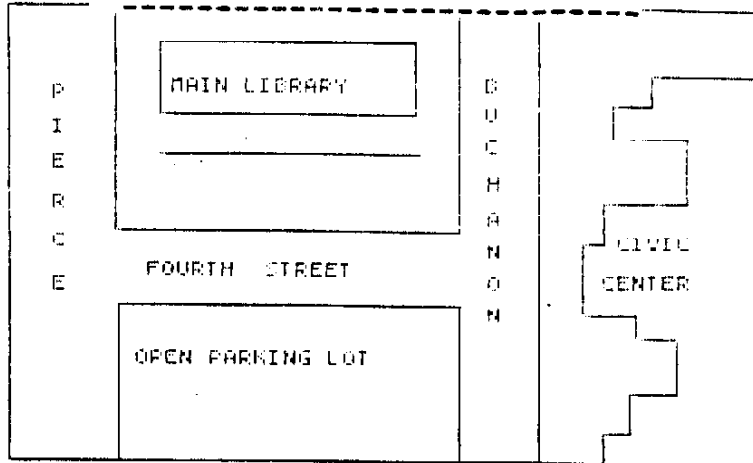
Wanted: Your swap and sell ad...its free to paid members!!!!



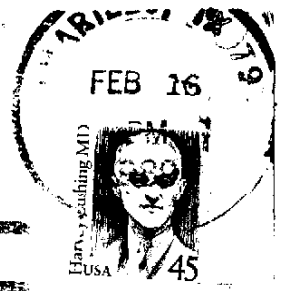
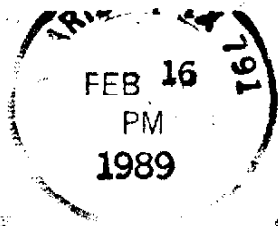
"Can you prove it was a business orgy?"

16 NATIONAL REVIEW / MARCH 27, 1987

AUG MEETING LOCATION MAP



MEETINGS ARE SECOND MONDAY OF EVERY MONTH AT 7:00 PM
IN MEETING ROOM ON SECOND FLOOR OF MAIN LIBRARY...I'LL
SEE YOU THERE!



Amarillo 99/4 Users Group
P.O. Box 8421
Amarillo, TX. 79114



DALLAS TI HOME COMPUTER
P.O. BOX 29863
DALLAS, TX 75229