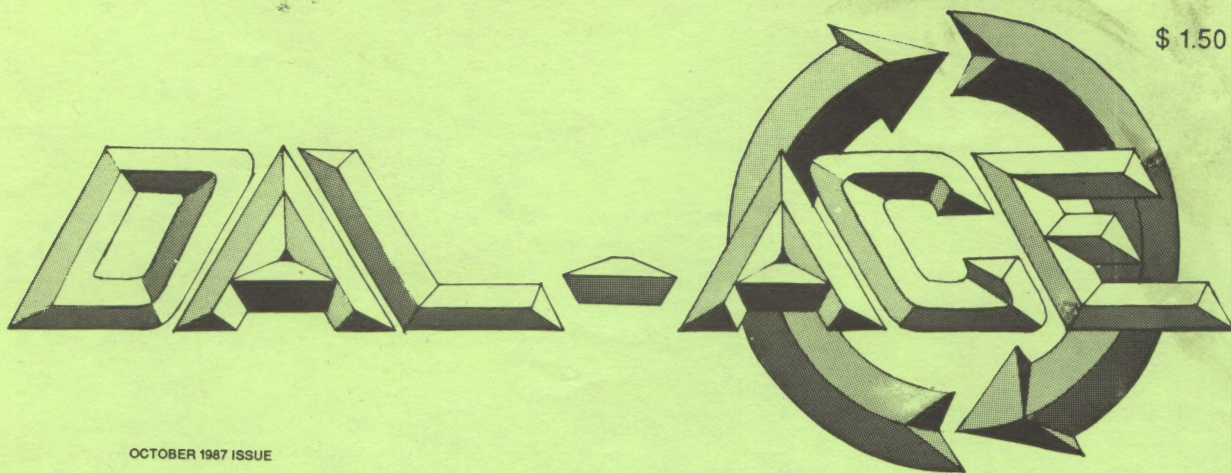


\$ 1.50



OCTOBER 1987 ISSUE

## DALLAS ATARI COMPUTER ENTHUSIASTS

INSIDE: 1987 Dal-Ace Survey Results

5.25" Drive for the ST  
Shareware vs. Noware

AND MORE!!!!





## President's Voice

Well, it is that time of year again. You know when you uncover your computer and try to figure out what it was you bought it for. The summer is over and christmas will soon be upon us. We have a busy three months ahead of us. This month we have to select a slate of officers for the coming year, continue preparations for Toy's for Tot's and relearn how to use our computers. So lets get with it !

For the past two weeks I have been reading messages on the BBS concerning our taking down the board run on an 8 bit machine. We were forced to take it down as the sysop was moving and could not have it in his new location. So since it was coming down anyway and the usage had dropped off the membership present at the SEPT meeting decided to try one board for two months and see if it would serve the members needs. At the meeting that seemed a reasonable course of action to follow. A vote was taken and passed. Then a few days later the \*&%\$#@! hit the fan and messages were flying along the telephone lines just like the ones we read before, and they made as much sense as they did before. I will never understand how supposedly rational adults can be transformed into a bunch of acrimonious children to no end. A decision was made at the meeting to try something new for two months and then review the results. That decision was not written in concrete and at the end of two months can be changed if the members present at the meeting so desire. Those children who lost their rag should come to meetings and vote, then abide by the majority decision or get the hell out of DALACE and join IBM or APPLE where dictators are welcome.

A very important event will take place in December at the meeting YOU will get to elect the officers for the coming year. Here is your chance to determine the direction the club will take next year. But if you don't vote then don't complain, or better still run for office. In any case show up at the December meeting. Besides getting to vote you can also join in the Toy's for Tot's games and share the prizes, all the time helping those who don't have what we are fortunate enough to have and sometime take for granted.

## Editor's Notes

Well, let me start of by saying it was pretty difficult to make a twenty page newsletter out of a few articles. It just can't be done. If YOU want a quality newsletter, then why don't YOU write an article telling everyone about that neat little program you wrote or about the program you couldn't live without but were disappointed when you got it. Let us know. After all this is YOUR newsletter and it is what YOU make it.

The next topic on my agenda is to find a replacement editor. At the end of my term in December, I will unfortunately not be able to continue as editor due to academic conflicts and my impending graduation in June. I have learned a lot while I have been editor, and It has helped me tremendously (It gave me the chance to get an ST). I hope I have guided the newsletter in a VERY positive direction, and I hope that my replacement will continue to make this a great newsletter.

You are probably wondering what it takes to be newsletter editor. Well, first of all, it takes imagination and creativity and a lot of dedication. I usually spend part of the weekend before the production meeting putting together the bulk of it. The production meetings are usually held two Sunday's before the main meeting at a place convenient for the parties involved, but this can be changed to accommodate your schedule (but is must allow sufficient printing time). It also requires a 1 meg ST.

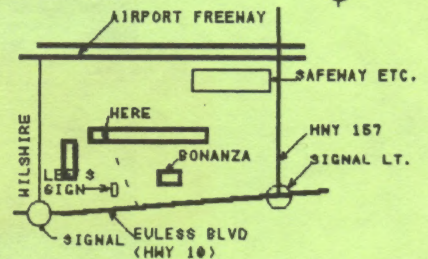
If you are interested let me or one of the current officers know. I will not be at the Octiober meeting because I will be performing at the UIL marching band competition, and then on Sunday we (the Newman Smith HS band) will performing at the Dallas Cowboy's halftime. So I will be very occupied that weekend, and it would probably be better if you called during the week.

Until next month,  
Scott

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## Officer's Board Meeting Minutes September 26, 1987

The following is the slate of officers being submitted for the December 1987 elections:

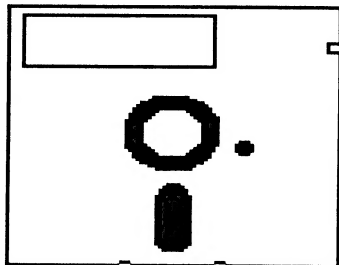
President	-	Larry Dineen
Vice President	-	Michael Trombley
VP Communications	-	James Duke
Secretary	-	Rachel Duke
Treasurer	-	Open
MAL	-	Michael Duke
MAL	-	Nolan Terrill
MAL	-	Wally Wilinsky
MAL	-	Open

If you wish to run for any office please let the current officers know so that your name can be added to the list. Nominations will also be held at the December meeting.

It was decided to move the Dal-Ace BBS to Jim Duke's home and install a metro line. Michael Trombley will be the Sysop. The BBS will be brought down the weekend of October 2, 1987 and will remain down until after the October 10, 1987 meeting to facilitate the move.

A Dal-Ace BBS only membership has been added to Dal-Ace. The BBS subscription is \$10.00 per year and includes ONLY access to the club BBS. No other member privileges are included. BBS only membership is upgradable to full membership with the submission of an additional \$6.00.

It was agreed to dispose of a non-working modem and printer owned by Dal-Ace.



## 5.25" ST FLOPPY DRIVE Reprinted from Mile High Atari Magazine

This is a fairly easy project. If you aren't quite sure which end of a solder iron gets hot, find someone to help you. Damage to the drives, and computer are certainly a possibility. Starting reference for this article was from Antic Magazine November 1985. "ST USES IBM DISK FILES" by local MAGIC SACK wizard David Small.

### WHY DO I WANT A 5.25" DRIVE?

A couple of reasons come to mind. First and foremost "CHEAP!" 5.25" floppies are normally about half the cost of 3.5's. For archiving, Hard disk Backups, or any other type of limited use storage, it can't be beat. The cost of the Hardware and disks will soon be recovered in disk savings alone. Second with the advent of a couple of "usable" MS-DOS emulators, direct reading and writing of IBM disks is possible, allowing greater flexibility of the ST system.

Atari in a brief wind of Wisdom, decided on a disk format very much like the defacto standard IBM PC. What with IBM now adopting the 3.5 standard, this was definitely a wise move. As usual though Atari had to use a sub-standard DIN type connector for their drive cables. When Dave's article was published there were no Drive cables of 14 pin DIN's available. So he directly connected the second (5.25") drive to the standard ribbon cable inside your Atari 3.5 drive. It works but leaves you with a modified drive with a tail.

Now that drive cables and plugs are readily available, an article to allow you to take a standard drive cable, cut it in half, and make two 5.25 cables from it, was in order. Sounds easy right?

### Here's what you'll need:

5.25" Double Side Double Density 80 track drive. I use a full height Tandon TM-100-4. Some of the 80 track drives have the capability of doing 40 track and 80, these would be to your advantage so that you could read standard IBM 360K format, and yet write correct quad density 720K in Atari and IBM formats. A double sided double density 40 track drive can be used in limited fashion using formatters provided with the MS-DOS emulators, or with disks original formatted on an IBM. Documentation on drive select and removal of the pull up resistors on what ever type of drive you choose is a must.

Power supply and case. These are readily

# DAL - ACE

available from many sources locally and mail order. Check out Computer Shopper for the best deals. Normally about \$50.00.

14 pin drive cable 6 foot or longer. These are available at Horizon, or from various mail order houses.

1 34 pin edge connector. These are available from Radio Shack, Gateway, Quest, etc.

## ON TO CONSTRUCTION:

Cut your newly purchased drive cable in half, you can leave it longer but then you will be left with a really short second cable. Remove the outer covering of the cable to gain access to all 13 wires. Strip all of these and tin them with solder.

Dig out the 34 pin edge connector and give it a good look. The top side is numbered 2,4,6...34 and the bottom is numbered 1,3,5...33. Make sure you understand this before starting your hook up procedures. Now find your ST Owners Manual and turn to the back. This will show you the correct pinouts for the 14 pin DIN end of the cable. Study this closely too. When you feel confident that you know the proper positions of the pins, solder the following lines to the 34 pin connector:

ST CONNECTOR	34 PIN CONNECTOR
1	30
2	32
3	NOT CONNECTED
4	8
5	10
6	12
7	15
8	16
9	18
10	20
11	22
12	24
13	26
14	28

After completing this task, go back through with an Ohm meter and make sure everything is correct. I'll wait....

Good! Next we need to determine how to set the drive number selection. Due again to Atari switching drive select lines within their drive, your new 5.25" drive must be selected as drive one, or A as the case may be. True it will be addressed from the computer as drive B, but Atari with all their forethought... This is done on the Tandon drives by providing a jumper on IC socket 1E between pins 2-15, on some drives a jumper between 7-10 must also be provided.

Last we come to the termination resistors. Most

drives will have a 14-16 pin line resistor IC plug into the controller board. On the Tandons its socket 2F. If your drive has an IC in this socket, pull it out. In addition to this the select line resistor, which is not in the IC resistor you just pulled, has to be removed. This is where the drive documentation comes in to play. On the Tandons it's R14 to the upper right of the drive select socket, on some of the TM100-4 it's \$30, just below the socket. It is crucial to proper operation that the correct resistor be removed. Nothing will be harmed (probably) if the incorrect one is selected, it just won't work. I cut one end of the resistor and left it in the board just in case the drive ever sees use with another computer.

Some of the 5.25" drives cannot operate at the same read and write speed that the 3.5's are capable of. They too will work, just not quite as fast. My Tandon seems to keep up at 2ms with little or no problem. This is every bit as fast as the 3.5". Unlike Mr. Small's mod, 1040 users also can use the 5.25" on their systems. ENJOY!

Questions, comments, and additional (select resistor numbers for other drives) should be directed to D. Lloyd Sysop of Skyline BBS 303-457-0320. If we do receive additional select resistor info, it will certainly be posted on the board.

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## Are You One of the "NOWARE" People? Sharewares versus Nowares

by Leo Newman WACE

reprinted from

Coastal Area Atari Users Group

In the recent past there has been a tremendous increase in the number of programs being released through the "SHAREWARES" concept. This type of gamble on the part of programmers was designed to provide average or better software to the user at a relatively low cost.

The principle of SHAREWARE was that the author would release his program to the public, if the public liked the program and found it useful they would then send the small price asked by the author. The price on most SHAREWARE programs is usually in the range of minimal, \$5 - \$25, depending on the quality of the program and whether the source code was included.

The users have been very anxious to download and use these programs, and there are many types. Anything from word processors, to utilities of the type of RAMdisks, to print spoolers and print utilities can be found on bulletin boards and in club libraries. This is good, except for one minor problem. Users have seldom sent money to the author to pay him for his work.

I know many programmers around the country through my past experience with the Bulletin Board. I have recently noticed a trend in the private message bases for programmers on several boards, that a lot of programmers are tired of releasing SHAREWARE and not getting any money for their effort. Ralph Walden, just to give you an example, has worked very hard on one of the best utilities to come along for the ST. DCOPY 2.0 is his last version. To date Ralph has received less than \$100 for this program. This is a program that he has had out in SHAREWARE for over six months.

Now if you look at the problem that has risen you have to evaluate it on a logical basis. Would you work six months and support your product for \$100? I doubt it! The Cole editor is going to be pulled from SHAREWARE and turned into a commercial program. I am beta testing the commercial version presently. If this trend continues you are going to see fewer and fewer good quality programs floating around that you can pick up for 5 or 10 bucks, instead it is going to be commercial and the price is going to increase accordingly. You all know what commercial software costs can be.

Of course that won't stop everyone from getting a free "pirated" copy of the commercial program, but then that brings up one of the major reasons for the NOWARES concept we now face for the 8 bits.

The choice is yours to make. You spent 500 to 770 bucks and some even more for your computers, don't you think you could afford 5 to 10 bucks for software?

Which is it (..going to be..) **SHAREWARES or NOWARES?**

---

## The Shareware Concept

Additional comments

by James Duke

Here are a few additional comments on the idea and state of Shareware on the ST line. Since I have a couple of shareware programs out I can speak out of some experience. The shareware concept is easy, if you like the program then you should pay the author either what he asks for in the shareware notice, or what you believe it to actually be worth. If the programs is of no use to you then you don't need to send anything.

The shareware concept has been around for a long time, especially on the Apple MAC. It has been very successful there, some companies make enough to provide continual support and new products on shareware monies alone. Unfortunately ST users have decided that they don't want to pay anything for shareware products. In the long run this will definitely hurt the ST community.

You can already see the effect on shareware programs. Those ST owners that have a Magic Sac know about the quality of the MAC shareware products. Many of them are so good that they are better than any commercial program of the same type for the ST. A good example of this is Freeterm for the MAC. There are no ST terminal programs available (Commercial or Shareware) that have the features and ease of use as Freeterm has.

Software development takes a lot of time and effort. Even for the most trivial of utilities. And if the programmer is not compensated then he has no encouragement to improve his programs or to write new ones. I think most programmers will still write the programs, but I think you will find that less and less will be available to the public. They will either become commercial products with commercial prices, or they won't be available at all.

How many people out there have ARC.TTP. How many of you have sent in the requested shareware contribution. Not many I'll bet. Now, how many would like to see enhancements to ARC, maybe a full GEM implementation, or how about a desk accessory version. Well these or other enhancements will probably never happen because of the ST communities lack of regard for the shareware concept.

Sure there will still be PD programs, but the ST will never reach the level of the MAC Shareware. For example. In my case I have not seen one cent since the release of my utilities.(I never expected to, really) I am currently working on a very enhanced version of what was originally released. I have already spent about 16 hours on development, and that was just on the user interface. I haven't even started on the main part of the program yet. I know that I won't get any compensation for my efforts, but that will not stop me from completing the program, or from further enhancements. The program is useful to me so I will continue to enhance it.

But I won't be releasing the newer versions. I can't see putting my hard work out for the public with no chance of compensation. I think that this view is shared by programmers all over the country. I hate to see the drying up of good, inexpensive software for the ST, but unless the current trend changes, I am afraid that this is what will happen. Where else can you get good software at a price that you want to pay.

Only you can change what is happening. If you have ARC and use it regularly, then send the author something for his trouble. If you use my utilities, send me what you think they are worth. Even if the program is not designated as Shareware, but it is good, send the author something to show him that his work is appreciated. Maybe the ST users can turn the current trend around and insure a future of plenty of good, inexpensive sharewares for the ST.

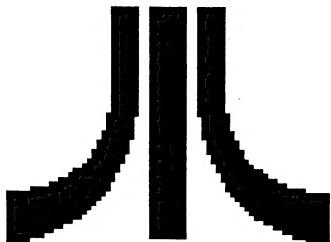
## Computer Phobia By Bill Lindsey Reprinted from LACE news

Everyone Knows what it sounds like when kindergarten children are playing on the playground, and the following brags are made: My toy is better than your toy- My Dad can beat up your Dad - My bike is faster than your bike - My Dog is bigger than your dog... Well, you get the picture... You are listening to immature, Phobia-stricken children who must constantly brag and also put down everyone around them.

If you merely replace the word "computer" in the above known-comparisons, you have what you may be surprised to notice, grown-ups talking! (us?) As the common meeting ground for Atari computers, LACE (Ed: read DAL-ACE) is by nature a melting pot of computer owners. We have 6 8-bit computer models and 2 16-bit computer models we are doing our best to learn more about and use more effectively. As an Atari 8-bit owner, I adore my machine, but also look forward to owning an ST.

To the point, our club has been hurt by all the micro-bashing that has been engaged. Much of it has deteriorated into personal assaults (verbal only as of now) which have been fed by half-truths, non-truths, or just downright generations of bologna. It is time the club absolutely shut off the slandering, so please be advised that the doors will be closed to anyone who wished to use the club as his/her foreman for assault on our computers/users.

We took on our computers as hobbies, not as ulcer-generators! The 800XL and 520ST are brothers, and the club, as always, shall approach both machines as such. If you wish to take out your paranoid aggression, take them somewhere else! Those of us attending the club meetings for the betterment of our computer time don't need the pressure! May the Atari 8 and 16 bit computers live forever. In HARMONY!



**S U P P O R T  
Y O U R  
N E W S L E T T E R !  
W R I T E A N  
A R T I C L E ! !**

## 1987 Dal-Ace Survey Results

1. How many computers do you own?
- One - 58%
  - Two - 9%
  - Three or More - 33%
- Largest number owned 8 computers.

2. What kind(s) are they?
- 800 - 33%
  - 600XL - 16%
  - 800XL - 50%
  - 1200XL - 8%
  - 130XE - 25%
  - 520ST - 25%
  - 1040ST - 16%

Other computers owned:

- Radio Shack
- IBM Compatables
- VIC 20
- TI994A
- Aquarius

3. What was your second choice?
- IBM - 60%
  - Other Atari - 40%

4. Why did you choose Atari?
- Price/Performance Ratio - 70%
  - Recommended by Somebody - 22%
  - Graphics - 8%

5. What modifications (if any) have you added?
- Memory Upgrade - 50%
  - New OS - 33%
  - 80 Column Board - 16%

6. How did you first learn of Atari computers?
- Ad - 51%
  - Friend - 33%
  - Store - 16%

7. Where do you use computers?
- Home Only - 17%
  - Work and Home - 83%

8. How much have you invested in each system you own?
- Average amount \$1,400
  - Highest \$5,000
  - Lowest \$500

9. Where do you buy your computer equipment and software?
- Local Dealer - 75%
  - Mail Order - 25%

10. Peripherals owned:
- Cassette Recorder - 33%
  - Floppy Disk Drive - 100%
  - Hard Disk - 16%
  - Monochrome Monitor - 50%
  - Color Monitor - 75%
  - Daisywheel Printer - 25%
  - Dot Matrix Printer - 92%
  - Laser Printer - 0%
  - 300 Baud Modem - 50%
  - 1200 Baud Modem - 50%
  - 2400 Baud Modem - 8%
- Others -
- Speech Syn.
  - Video Digitizer
  - Image Scanner
  - Ink Jet Printer

11. Average software usage by type:
- Word Processor - Frequently Used
  - Education - Seldom Used
  - Music - Seldom Used
  - Games - Frequently Used
  - Data Base - Occasionally Used
  - Spread Sheet - Seldom Used
  - Graphics - Frequently Used
  - Telecommunications - Frequently Used
  - Personal Finance - Occasionally Used
  - Engineering - Seldom Used
  - CADD - Occasionally Used
  - Business - Occasionally Used
  - Programming - Frequently Used

12. Programming languages used in order of usage:
- BASIC
  - Pascal
  - C
  - Assembler
  - Forth
  - Modula 2
  - Logo

13. How much (total) have you invested in the following types of software?

	Average	High
Games	\$250	\$2100
Graphics	\$100	\$200
Applications	\$525	\$4000
Utilities	\$150	\$750

14. Do you purchase disks from the club library:
- Regularly - 33%
  - Occasionally - 42%
  - Never - 25%

15. How did you hear about Dal-Ace?
- Friend - 50%
  - Store - 33%
  - Ad - 32%

20. Do you regularly attend club meetings?

- Yes - 75%  
No - 25%
21. Do you attend SIG meetings?  
Yes - 67%  
No - 33%
28. Do you use the club BBS?  
Yes - 67%  
No - 33%
31. Average age - 37
32. Males - 85% Females - 15%
33. Average income - 30,000 to 40,000
34. Level of education:  
Ph.D - 8%  
Masters - 15%  
Bachelors - 8%  
Associate - 23%  
Some College - 38%  
High School - 8%
35. Field of occupation:  
Professional - 23%  
Technical - 46%  
Managerial - 8%  
Service - 23%

This survey represents only a small portion of the Dal-Ace membership due to the small rate of return of the surveys. You will probably find that these figures represent a good representation of the very involved computer enthusiasts since mostly only those types took the time to return their surveys. Also, some percentages will add up to more than 100% due to several people having multiple computer systems. We'd like to thank everyone that took the time to fill out and return their surveys.

## TOS ROMS -- BLITTER VERSION

Reprinted from Mile High Atari Magazine

The 1987 revision of TOS is scheduled for release in conjunction with the new "blitter" chip. The new TOS has been upgraded to include support for the hardware blit as well as retaining the software blit functions for full compatibility with older software which relies on hardware timing (a definite no-no).

### Changes in the new ROMs are:

RS232: The RS232 handler has been completely rewritten. RTS/CTS handshaking now works. Baud rates 50 and 75 now work.

CLOCK: Support is now included for the Mega ST's

built-in clock is automatically used by the XBIOS gettime and settime function or the IKBD. The GEMDOS clock is reset from the realtime clock at the termination of every program.

STARTUP: Memory clear at system startup is much faster, improving performance on multi-megabyte systems.

DESKTOP: The desktop now includes a control for deactivating/activating the blitter chip. Also, the Save Desktop and Print Screen selections will request confirmation. Spurious characters are no longer written to the DESKTOP.INF file. Doing a PRINT or SHOW from the desktop will now display characters with ASCII codes above 127. SHOW and PRINT use a larger buffer now. Single drive copies now require fewer disk swaps.

CART: Cartridge handling has been revised, eliminating the need for "CARTSTART" code and allowing >TOS and >TTP programs. Lower case letters will now be accepted and passed to an application from the "Open Application...Parameter" box.

AES: The AES will now send repeat clicks if the mouse button is held down on the arrow or page controls of a window, which lets a window smooth scroll. The AES underscore bug is now fixed. APPL\_TPLAY and APPL\_TRECORD now work. The limit of 30 characters on a line in an alert box is now rigidly enforced.

MOUSE: The mouse redraw can now be set to XOR mode. The system will return after a single click if this is what was requested.

DMA: The DMA bus can now have more than one device attached at power up time, without any special software.

FLOPPY: The floppy read/write code checks for more errors now. In prior versions, the system would not report a CRC error under certain circumstances; now it will. This hurts some copy protection schemes. The format of the floppy disk has been skewed from track to track to improve disk speed; the XBIOS supports this by using -1 for the skew value and placing a pointer to a one word per sector skew table in the previously unused longword.

VDI: The VDI will now draw arcs with small angles.

BIOS: Character out routines are much faster.

BLITTER: Automatic blitter chip support is included in Line-A and VDI calls. The extended inquire will report a larger performance factor than before, allowing applications to check for the presence of the blitter. A new XBIOS call has been added to



check for the blitter and to activate or deactivate it.

The blit is not a reenterant - Line-A and VDI should not be called from within and interrupt.

REGISTER: The registers D0, D1, D2, A0, A1, A2 have always been forfeit when a trap call was made. Now the demise of these occurs under more conditions than before.

MEMORY: Slightly more RAM is used by the system. Programs that were close to the edge on a 520 ST may no longer fit.

VARIABLE: Most undocumented system variables have been moved. YOU WERE WARNED!!!

## NOTES AND WARNINGS:

1. Some programs depend on the OS always being at \$FC0000. This is NOT cast in stone and will probably change soon. To find the OS header, use the pointer "sysbase" as documented.
2. The 4 megabyte ST puts the screen near the end of accessible RAM. Sloppy programs that have been writing past the end of the screen will give bus errors if they do so on a 4 meg ST.



## SELF-HELP GROUP by Jeff Golden

Howdy! We all deplore the lack of software and support for the 8-bit machines, but no one ever does anything about it. Well maybe the time has finally arrived.

I am interested in organizing a "learn-by-doing" group to provide a place where new-users can get some one-on-one help, where old-users can show their stuff, and a place where all of us can get some hardware support when it is needed.

Eventually, I would like to see the group do some serious programming of a quality sufficient to distribute in the public domain, or commercially, if you can come up with something really worth while.

Programs are written by people. Programming languages usually have fewer than 100 words in them. If you can read, you can program. The most important ingredients are a little imagination, and a willingness to put in a little effort. The reward is a large sense of accomplishment.

The key to this proposal is "learn-by-doing". While we have sigs where everyone sits around and talks, or views demos that cannot be seen, or in general wear out the seats of their pants, these sigs leave something to be desired. Personally, I have to get in there, and bang the keys, to really learn anything.

I would like to see a return to the days when everyone used to meet informally at Jim Chaney's house, for a "lets have fun with the computers" type of meeting. Some of us were there to put together the newsletter, but most of the visitors simply dropped by to show off their latest Atari thing.

What I would like to propose is a once-a-month Saturday morning meeting, on a non-club meeting day, for the purpose of learning and doing some programming of the 8-bit, demoing software, fixing broken machines and programs, or just sitting down and reading some Atari magazines or manuals.

There is room at my shack for about ten people, and there are six 8-bit machines available, and what's more, I'm willing to host such a meeting. If you are interested, let me know either at the club meeting, or call me after 6PM on 252-3468. Jeff

---

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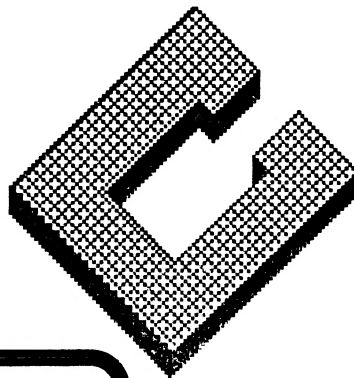
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MANY THANKS TO  
MEGAMAX FOR THEIR  
HELP IN PUBLISHING  
THIS NEWSLETTER

RAM



## NEWSLETTER SUBMISSIONS

Submissions are welcome in any form. It is, however, extremely helpful if submissions conform to one of these formats:

1. ASCII files with no formatting information.
2. On ST disk format.
3. Uploaded to the DAL-ACE BBS (SIG 12 on the ST BBS).
4. Publishing Partner file

It is requested from any 8-bit user that he/she upload articles to the club BBS. (Number on back page). Articles will also be accepted if they are printed out. Please submit articles in this form to the editor or one of the club officers.

## CURRENT DAL-ACE SCHEDULE OF EVENTS

Saturday October 10 - Main Meeting at Infomart

Sunday October 25 - Production Meeting  
Scott Phelan's house  
1809 Clear Creek Lane  
Carrollton, TX 75007  
11:00 AM

Saturday November 14 - Main Meeting at Infomart

Sunday November 29 - Production Meeting  
Scott Phelan's house

Saturday December 12 - Main Meeting at Infomart

As always, dates more than 30 days in advance are tentative. Please call for more information.

## INFOMART DIRECTIONS

From North Dallas, take either Stemmons (I-35E) or The Dallas North Tollway south. From Stemmons, take the Oak Lawn exit turn east and park at the Infomart. If you are using the tollway, exit right on Wycliff, go left on Harry Hines to Oak Lawn and turn right. From the south, take Stemmons north, then follow above. Infomart is the big, white steel and glass building south of the other 'marts. GUESTS ARE WELCOME!!!!!!

## NEWSLETTER ADVERTISEMENTS

Personal sale ads are free to all current members. Please see the editor for details.

## COMMERCIAL RATES

Full Page	\$35.00
Half Page	\$25.00
Quarter Page	\$ 15.00

Ads must be CAMERA READY. Copy must be received prior to the production meeting. Mail copy to the address on the back page, or contact the advertising manager. Copy received after the production meeting will be run the following month. For contract advertisers, if no new ad is received prior to the production meeting, the most recent ad will be run.

## SPECIAL THANKS!

We would like to express our deepest appreciation to Megamax, Inc. for allowing us to use their laser printer for our newsletter.

Special thanks also to our advertisers for supporting ATARI and DAL-ACE. Be sure to let them know how much we appreciate their support.

## DISCLAIMER

The material printed in this newsletter reflects the opinions of the authors. Opposing opinions are solicited. Unless otherwise stated, the material in this newsletter is NOT copyrighted and no rights are reserved. The purpose of this newsletter is to prevent information for your consideration. Neither the editor nor DAL-ACE make any claims for the validity or usefulness of this material. The reader is the final judge of any product or advice presented.

## \*\*\*MEETING INFORMATION\*\*\*

- 10:30 - 11:00 - Disk Sales
- 11:00 - 11:30 - Main Meeting
- 11:30 - 12:00 - BBS Users
  - New Users
  - Newsletter Exchange
- 12:00 - 1:30 - ST Sig
- 1:00 - 2:30 - 8 Bit/Turbo Basic Sig



## DAL-ACE OFFICERS

PRESIDENT ..... Larry Dineen ..... 817-668-7296  
VICE-PRES ..... Michael Trombley ..... 255-9832  
VP Comm ..... James Duke ..... 404-8569  
SECRETARY .... Rachel Duke ..... 404-8569  
TREASURER .... Don Adams ..... 350-2206  
M.A.L. .... Michael Duke ..... 414-1132  
M.A.L. .... Nolan Terrill ..... 255-8357  
M.A.L. .... Wally Wilinsky ..... 506-0352  
M.A.L. .... Robert Childress ..... 692-1204

## DAL-ACE VOLUNTEERS

Editor ..... Scott Phelan ..... 492-2731  
Ad Manager ..... Don Adams ..... 404-8569  
BBS ..... Jeff Golden ..... 255-8256  
8 Bit Library ..... Michael Duke ..... 414-1132  
ST Library ..... Joe Camblin ..... 221-7825

DAL-ACE Bulletin Board ..... 214-255-8256

## DAL-ACE Dallas Atari Computer Enthusiasts

DAL-ACE is an independent user education group not affiliated with the ATARI Corporation. This is the official newsletter of DAL-ACE and is intended for the education of its members as well as for the dissemination of information about Atari computer products.

DAL-ACE membership is \$16.00 per year. This newsletter is written, edited, and published by volunteers. Its availability and/or distribution may, at times, be subject to circumstances beyond the control of the club officers. Members will note that their renewal date appears on their address label. A pink label indicates that your membership expires this month.

Other user groups may obtain copies of this newsletter on an exchange basis.

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