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North Texas PC Users Group

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**North Texas PC NEWS**  
(STARMAIL ADDRESS 51563)

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**Deadline:**

All material for publication in North Texas PC NEWS (articles and ads) must be received by the NEWS staff no later than the 15th of the month.

**Articles:**

Please do not right-justify, indent or otherwise code the copy. If column alignment is critical, send along a hard copy, or written instructions. Article submission is preferred by modem (817/275-4108 or StarText 81583), or disk in ASCII format, unjustified. If you send a disk, please include a printed copy of the article to assure accuracy. Double spaced, typewritten copy is acceptable but must be received a week before the deadline.

**Circulation:**

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**DEADLINE**  
Copy deadline for September  
NT PC NEWS:  
Saturday August 15th.

**Meeting Dates:**

August Meeting - 2nd Sat. (8th)  
Sept. Meeting - 2nd Sat. (12th)  
October Meeting - 2nd Sat. (10th)  
November Meeting - 2nd  
Sat.(tentative)

*Editor's Notes...*

**Summer Doldrums!**

I guess that's what many of us are experiencing. It is evidenced by lower attendance at monthly meetings, lack-a-daisical attitude toward all things business, concentration on vacation, fewer articles for the newsletter, and is clearly due to hot weather and the time of year... Change your pace! Don't let all these obstacles stop you from attending the next meeting. Our speaker promises to provide a program that is a distinct change from all the spectacular (or otherwise) hard/software we get wrapped up in during most of the month. Join us; I think you'll enjoy it.

Nantucket Software and Q.W. Page furnished door prizes at the July meeting - thanks. Robert Huff won a copy of Nantucket's Clipper dBase compiler, and Stephen Lanier carried off a copy of New Views accounting software.

A note to some of the finest people in the world - writers of articles for North Texas PC NEWS: If you have supplied an article on a disk which has not been returned to you, please see me after the meeting. I want to return them for a refill! Seriously, I bring the disks to each meeting but sometimes get tied up and can't find you.

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**August 8**

Charles Kroboth, Program Director

9:00 AM to 9:45 AM

AUDITORIUM

**\* COMPUTER MAGIC \***

Computer Magic: The World of Computer Imagery is a film produced by Colyer Dupont Cinemagic Productions in San Francisco, Ca. It's an extremely well done documentary on computer graphics and has been graciously loaned to us by Infomart's Resource Center.

10:00-AM to 11:00 AM

AUDITORIUM

**\* EZRA SHAPIRO \***

Ezra Shapiro was BYTE Magazine's West Coast Bureau Chief from 1983 to 1986 and is currently that periodicals Consulting Editor. Ezra would like to talk with us about, "Mental Cruelty: A Sceptical Ramble Thru The Corridors Of The High-Tech Religion".

**Prez Sez...****Our Treasurer Gets Help.**

Joe Brophy, our treasurer, has been looking at general ledger software for the past three months. He finally settled on General Ledger, Version 4.2 from Computer Associates. Keeping the books for a group the size of the NTPCUG has grown beyond Joe's spreadsheet templates. Joe is already setting up a budget for next year. Oh boy!

The group owes a special thanks to Lee Hite of M Street Software for helping us to get the software at a good price.

**December Meeting.**

For the first time in a long time, we were not able to reserve INFOMART on the second Saturday. The December meeting (and the April meeting in 1988) will be on the THIRD SATURDAY. Mark your calendars now.

**Bulletin Board to go METRO.**

Current plans are to move our Bulletin Board in late August to a new location in the mid-cities. From the new location we will be able to afford TWO metro lines. With over 400 subscribers, it's time we added another line. Chairman (our BBS software package) is capable of handling up to 8 incoming lines. Our budget can handle two lines.

After the last meeting we switched to version 2.0 of the Chairman software. It offers significant improvements over the previous version. Tom Prickett, our SYSOP,

spent over a month setting up the new software and testing it.

Once we are satisfied that version 2.0 is stable, two well known communication guru's, Fred Williams and Pete Testa have volunteered to create some new menu's and functions for the system.

We will post the new telephone numbers as soon as we know them. Watch the BBS for information on the move. After we move the system, we will put a recording on the old 418-6969 number for a month that will give you the new metro numbers.

**Assistant Program Chairman**

Charles Kroboth has been our program chairman for over four years. He wants a vacation. I'm looking for someone to learn the job and to give Charles a well deserved three month vacation.

**Advertising Manager**

We also need a newsletter advertising manager. More and more companies are contacting us about advertising. We need some one to keep up with the correspondence and billing.

**Membership Cards**

Many of you have requested membership cards like the cards that INFOMART used to provide. By the time you read this, the officers will have decided on a course of action. A card similar to the INFOCARD will cost the group approximately \$500 per year or about 30 cents per member.

Jim



## North Texas Personal Computer Users Group, Inc.

P.O. Box 780066, Dallas, TX 75378-0066

(Send membership dues, renewals & address changes to Membership Dir. address at bottom of this page.)

### Board of Directors

**Jim Hoisington, Chairman**    **Jim Graham**  
**Reagan Andrews**            **Stuart Yarus**  
**Kathryn Crawford**

The North Texas-PC Users Group, Inc., is a non-profit, independent group, not associated with IBM or any other Corporation. Membership is open to owners and others interested in exchanging ideas, information, hardware, predictions, and other items related to IBM Personal and compatible computers. To join the Group, complete the application blank printed elsewhere in this issue, and send it with \$24 membership dues to address shown below. A subscription to the newsletter is included with each membership.

The Group meets once each month, usually on the second Saturday. See cover for date, time and place of the next User Group meeting.

### Officials

President - Jim Hoisington (214)416-3101 h  
 President-Elect -  
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     - Open -

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**BBS: SYSOP:      Tom Prickett (214)418-6969**

### Address Changes, etc...

Payment of dues, address changes, and inquiries about membership should be directed to  
 NTPCUG Membership Director  
 135 Skyline Drive  
 Plano, Texas 75074

(Check newsletter mailing label for your renewal date..)

*A Book Review by Jim Hoisington:*

## The Educational Software PC Compatibility Guide

By Stella Lynn Neumann

This book is written for a very specific audience. It is written for a school system that uses IBM PC or PC clones. It contains a list of many of the educational programs used by the primary and secondary schools.

The book is arranged alphabetically by program title. Following the title is the name of the publisher and a general category such as "MATH". But, the real value of the book is the table of computers that follows each title.

The table contains an entry for most of the PC compatible microcomputers available on the market today. If the software has been tested on a particular model and it runs on that model, the table contains a +. If it did not run on that model, the table contains a -. With more and more school districts buying from a variety of microcomputer vendors, this table provides a quick way to see if a particular educational program will run on the model or models of microcomputers that may be present in the school system.

Following the table is a listing of the DOS versions required. If the SYS.COM notation is present, it means that the user must transfer the DOS system to the program diskette.

Finally, there is a list of the minimum memory required to run the program, any special hardware required, and the size of diskette that on which the program is available.

I took this guide to the PC coordinator for our local school district. She had seen many books describing educational software, but none of them gave her any information about which PC's were capable of running a specific program. Since our local school district is currently using three different brands of PCs, it was important to her to know if an educational program would work on all three machines.

The table of PC's in this first edition had 33 entries and went from the AT&T 6300 to the Zenith. Of course if your school district is buying a no-name clone, this book won't help you.

I had a couple of questions about the book so I called the publisher's telephone number. It is answered by an answering machine that is set up to take orders. So, I didn't get my questions answered.

One of the problems that I have with the book is that in the list of educational software publishers, only the company name is given. It would seem to me to be

very easy to add a company address and optionally a phone number since the author got her compatibility information from the publishers.

The other problem I have is the SYS.COM notation used to signify that the DOS system must be transferred to the program diskette. As those of you who attend our DOS SIG know, one of the shortcomings of the DOS system is that SYS.COM does not quite finish the job of transferring the DOS system to a diskette.

I'm not being picky here. This problem comes up all the time in the DOS SIG. SYS.COM only transfers 2 of the 3 files that make up the system. It forgets to move the COMMAND.COM file.

Actually, the best solution would be for Microsoft to change the SYS.COM command. However, until they do, I think the book should use a different notation to indicate the transfer of the DOS system to the program diskette.

The book is a good start at solving a tough problem for schools. This is the first release and the author states her intention to keep it updated with the newer PC models and programs.

The book is published by:

PC Compatibility Guide  
2413 Grandview Drive West  
Tacoma, WA. 98466  
(206) 564-5428

And the winner is...

### Contest Winner

If you entered our contest for best article published between January and May, you were in good company. All the articles were very good and widely read. Reagan Andrews won the trip to Fall COMDEX for his article "Lost Again in Never-Never Land - Selecting a Hard Disk for your PC" that appeared in the May issue of the newsletter. If you missed this fine article, a few copies of the May issue may still be available at the reception desk on meeting Saturday.

Our thanks to all who submitted articles for the contest. I knew we had a lot of good writers out there!

Now... don't wait for the next contest, get busy and write some more articles. Our IN basket is empty again!

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80287-8 .....	246

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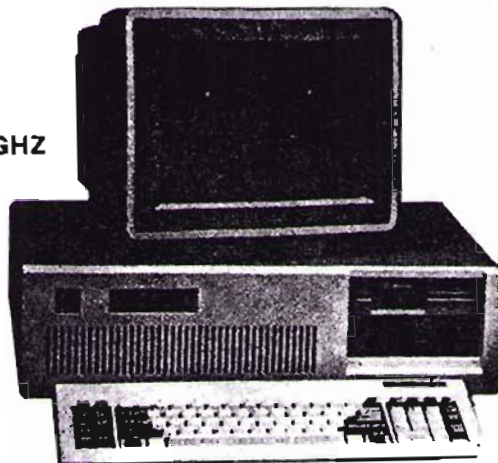
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  - \* 150 WATT P/S
  - \* AT KEYBOARD
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*Review of the July 1987 Disk of the Month by Ed Reardon*

## GT PowerComm - 12.21

P & M Software  
9350 Country Creek #30  
Houston, Texas 77036

First of all I have to say that GT-Powercomm is the software I use to communicate with both micro's and my company's mainframe. I have tried most other PD communications software and commercial versions as well and my choice is GT-Powercomm.

Note: GT Powercomm is a Shareware product that may be obtained through the author, or through file transfer of the product from hundreds of Bulletin Boards or from The Disk of the Month of the NTCUG. Please use PKXARC to extract the files from archived form.

Communications software is one of those very personal programs that generates as much discussion as politics or religion. There are those who will swear by the program they are using to the extent that they will not try another program. I know for I was like that. To try and describe all of the functions that GT Powercomm has in a readme file is all but impossible in the limited space provided. But never the less I will attempt to accomplish that.

It is important to know that GT1221 is more than a full featured communications program, it also has a full featured Host mode, which for all intents and purposes functions as a BBS. That's right folks along with the communications you get a BBS as well.

But since most of you will use this program to contact other Bulletin Boards including the NTPCUG's own BBS you will probably want to know why you should switch rather than fight. Features of GT1221 are as follows:

1. ANSI Standard terminal emulation, compatible with many super-mini and super-micro computers. The VT-100 terminal, manufactured by Digital Equipment Corporation, is an example of an ANSI Standard Terminal.
2. ANSI-SYS style color graphics, without the need of ANSI-SYS!
3. Basic style Play for single voice music.
4. Multiple telephone directories, with 999 entries each. Records the password for each BBS, as well as the date and time of last contact. The total number of calls, accumulated time, uploads and downloads are also recorded. The directory may be perused while on-line with a host system.
5. Circular redialing queue. Up to 200 numbers may be put into the queue.

6. Capture Mode, limited only by the amount of disk space available. A spill file is used, when the capture buffer is full. The capture buffer can be reviewed on-line, before saving to disk. The amount of data in the capture buffer is displayed on the status line.

7. ASCII file transmission, using xon/xoff protocol and/or line-by-line pacing and/or inter-character delays.

8. Full control of all communication parameters.

9. 40 Macro keys, to store logon, passwords, etc.

10. Full printer support, using xon/xoff flow control with the host.

11. Xmodem/CRC protocol.

12. Wxmodem protocol. This is the full-duplex, windowed version of Xmodem.

13. Ymodem/CRC protocol. Both the batch and single file version of this protocol are supported. Ymodem uses 1024 bytes per packet vs. 128 bytes per packet in Xmodem. During transmission of a file with Ymodem, if more than 5 error are encountered, the transmission will fallback to normal length blocks. This saves time, because of the high overhead encountered with Ymodem re-transmission of error blocks.

14. Telink/CRC batch file transfer protocol

15. The exclusive GT PowerComm protocol, 1k Telink, which combines the batch capabilities of Telink with the efficiency of Ymodem's 1k block length.

16. Sliding Windows Kermit file transfer protocol is supported. Using PCKERMIT.EXE developed at Columbia University.

17. Zmodem transfer protocol is supported using DSZ.EXE developed by Omen Technology Inc.

18. The exclusive GT PowerComm protocol, Megalink, which combines the latest 32 bit CRC technology with a full-flow, network friendly, batch protocol. This protocol is among the most efficient and reliable of protocols.

19. SEALink transfer protocol is supported. This protocol is extremely efficient and ideal for use with such BBS systems as OPUS.

20. DOS Shell. Exit to Dos then return, GT stays in the background. Among its other uses, this option allows the use of 3rd party file transfer programs.

21. Interactive script language, to automate many repetitive tasks. ▶

22. Optional LOG file. Keeps a complete record of your calls.

23. Advanced "Call progress" detection. Detects Busy, Voice, No dial tone, and more, with modems that support extended result codes, such as the USRobotics Courier 2400 modems.

24. Use of the environment variable, GTPATH, to simplify use of the program on a hard disk.

25. On-Screen clock, so there is no need for a memory resident clock program.

26. Host mode. Allows the user to setup a system to accept incoming calls. File transfers can be made without the use of a BBS! Complete security is incorporated into the host. The host mode also includes a powerful message system.

27. Support for the non-standard COM ports: 3 and 4. Since these are not standard, there are different configurations from each manufacturer - GT supports the Everex configuration as the default for COM3 and COM4, however the port addresses are configurable via command line option.

28. For those with limited disk space, a Terminal Only version of GT is distributed. This version is referred to as GTO, for GTerminal Only. It saves about 40k of disk space when compared with the full GT version.

29. With non-batch protocols, such as Xmodem, WXmodem and Ymodem, GT will scan the screen for the filename indicated to the BBS. This can save double typing of the filename. A very handy feature. To make complete use of this feature, you should set the default protocol for each BBS to be one of the protocols listed above.

#### Functional Overview

Gt PowerComm is a set of programs and files that provide complete capabilities for your system. It has been designed to be based on IBM and compatible micro-computers and it supports a wide variety of modems including all Hayes compatibles, USRobotics, and IBM.

As you have seen from the previous pages which listed many of the features of this program, there are a large number of functional capabilities provided by GT PowerComm. Nevertheless, you will quickly see that these functions have been provided in a very friendly environment for your use and that the software is quite easy to use. It is not necessary, for example, to remember any commands or special features of the

program as there is a comprehensive Help Menu available to you at any time the program is running.

Basically there are three usages of a communications system such as GT PowerComm:

1. To call other computer systems and engage in telex-like conversations with the person (or computer) called.

2. To transfer files (programs and data) between computers.

3. To establish an unattended Host Mode environment that other computer users can call and interact with. For example, to send files to your system or to leave messages for later review, sometimes called "Electronic Mail".

GT-PowerComm provides these three broad categories of functions and a great deal more. A few examples include:

1. The ability to use any DOS Commands without exiting the program.

2. Capturing to disk all the text that is exchanged while in the "Telex-like" terminal mode.

3. Automatically dialing the telephone for you.

4. Maintaining a complete log of all telephone activity.

5. Providing a secure environment that protects your system from unwanted invasion by outside callers.

Now, I don't know about you folks, but I will admit that this communications program has a lot of features and is mighty user friendly. It has to be for me to use it. If you are new to communications programs than starting with this means you are starting with one of the best. If you are already using another program give GT-PowerComm 12.21 a try for two weeks. I think if you do you will not go back to what you were using in the past.

One last thought. I have heard complaints the GT-Powercomm is revised too frequently. It is true that within the past 6 or 7 months there have been 4 updates. This is because of constant refinement and user suggestions for additional features. The author supplies support through his BBS in Houston and for registered users this support is outstanding. I have also seen the author giving help to those who have not registered their copy of GT-Powercomm. If you want support for your program, the best support I have experienced has been with P & M Software.

Ed

2



## Why Windows?

David Hayden

This seems to be the question that many people are asking. "Why do I need Microsoft Windows?" The answer is very simple. You need Microsoft Windows to run Windows applications. Microsoft Windows, by itself, is for the most of us, an unnecessary productivity tool. In essence, it is a DOS shell that runs very slow on a PC.

The reason for its validity, are the capabilities that are built into the program. It allows a software developer to develop applications that provide a consistent user interface that is very easy to use. This is important because, through this interface, people in a management level, that do not have the time to learn DOS, will now be able to fully utilize the capabilities of their PC.

Applications developed in the Windows environment will have the look and feel of programs currently available on the Macintosh. This environment uses a mouse as a pointing device to select commands from pull down menus and clicking the mouse button to select appropriate commands. For those who shun this type of environment, welcome to the 80's.

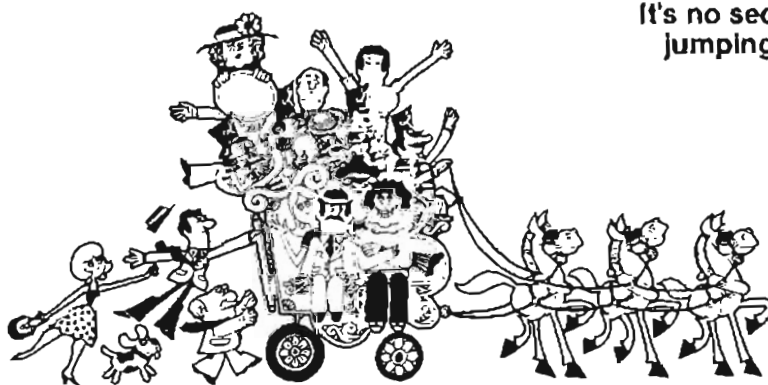
Most of the major software vendors, including Lotus, Ashton-Tate, and Microsoft, to name a few, have already begun development on programs for both the Mac and the Windows environment. Even IBM has made a commitment to utilize this environment in its

new line of PC's (I guess I should say PS's). It is this writers contention, that by 1990, virtually all software will utilize this interface.

The obvious question that arises is that, if this environment is so great, then why shouldn't I go out and buy a Mac. The simple fact is that many people have done just that (over 1 million at last count). It is my belief though, that a PC is a much better investment. The reasons for this belief are far ranging. First, because of the hundreds of compatibles that have come into the market, competition has brought the price of compatibles down to a fraction of the price of its IBM counterpart. Secondly, it is undeniable that the IBM PC is the de facto standard in the business community. Because of this, there is much more hardware, software, supplies, and services available to PC users than for Mac users. Therefore, products are generally much more easily accessible and usually, comparatively, less expensive.

All that stated, it may appear that I am recommending that you buy Microsoft Windows. Although, Microsoft would probably like that very much, that is not what I am recommending at all. I am recommending that you buy Windows applications, most of which include a run time version of Windows at no additional charge. Although, there are few Windows applications currently available, you will see many more during the next 6 months. For those developers out there, it's time to either jump on the band wagon or be left in the cold.

David



**It's no secret why everybody's jumping on the bandwagon!**

## ON COMPLEXITY

No. 12 in a Series

Jim Hoisington

Last week I bought a plotter. I haven't used a plotter since 1967 when I was hired by a company that made milling machines. My job was to simulate their machines with an IBM computer. The plotter that I bought for \$200 is only slightly better than the Calcomp / IBM plotter that we bought in 1967 for \$35,000. What is fascinating is the difference in the software that lets me use the plotter.

The IBM computer that I used in 1967 had 8k of core memory, a console typewriter, a paper tape reader for input and the Calcomp plotter with an IBM label on it for output. The machine had a 1 megabyte hard disk drive that had an access time roughly equivalent to our 360k floppy diskette drives today. There were two programming languages available -- Fortran IV and Assembly language.

(Some of you have been around computers long enough to remember paper tape. For those of you

who weren't, it was infamous. I am going to save my story of the two garbage cans, the paper clip, and the paper tape reader for a future column.)

If you have never seen a plotter, then I need to explain that it is a device that has a pen or pens that can be controlled by the computer. Usually the computer can move the pen either up and down or sideways some small distance like 0.01 inch. The computer can also raise or lower the pen.

The early software to control the plotter was quite primitive. The programmer had to keep track of whether the pen was up or down and the location of the pen on the paper. Only two software routines were furnished with the system. One would draw a line of n units (0.01 inches) long and the other would draw a circle with a radius of n units from the current location of the pen. Drawing anything required a lot of programming.

I have been using two software packages on my PC to try out my new plotter. I went over to my neighbor's house with my plotter and tried it out on his computer using Harvard Presentation Graphics. I was able to produce a couple of pie charts and a line graph in less than one hour. I also created a couple of graphs from a spreadsheet using SUPERCALC 4. Neither software package made it difficult to get the graph from the screen to paper.

Sometimes it seems like the software isn't keeping up with the hardware. But things have sure improved in the last 20 years for plotter users. What used to take a week of programming can now be done in an hour using a software package which can be learned easily. Of course now that plotter usage is less complex for pie charts, bar charts and line graphs, we will probably demand software that lets the non-programmer create highly complex graphs and drawings. Come to think of it, I've seen some packages advertized that do just that.

Jim

### Add a weather station to your computer.



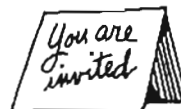
You know how much your computer already does for you. Now it can give you the weather as well. With PC WEATHER, you get all the hardware and software you need to turn your IBM PC, XT, AT or other compatible into a personal weather station.

**Measure and Display**

- Wind speed & direction
- Inside and outside temperatures
- Barometric pressure
- Wind chill factor
- Rainfall (optional extra)
- Real-time clock
- Programmable weather alarms
- On-board buzzer

**\$375** VISA/MC/AMEX Accepted  
To order, call or write:

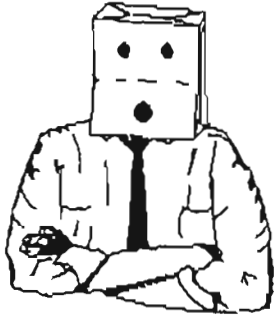
**Technology Marketing Inc.**  
4000 Kruse Way Place  
Bldg. 2, Suite 120  
Lake Oswego, OR 97035  
1-800-247-5712



...to write an article\* for  
North Texas PC NEWS.

\* or two

## NERD ON THE STREET



**NEW STUFF:** Look for several new products from Microsoft in September. 386 Windows (and Windows 2.0) will conform to IBM's Systems Application Architecture guidelines and provide a multitasking alternative to OS/2. PC Excel will be

nearly identical to the Macintosh version and they hope compete with 1-2-3. It will run under Windows and allow multiple spreadsheets to be active at the same time and be linked together.

Borland's Turbo C has sold over 100,000 units for the first two months on the market. Many mail-order houses are saying it's the best selling program they have ever had.

**FINANCIALS:** Aldus' first public offering was June 17th, opened at \$20 and by the close of the day was selling for \$37. One analyst said "They raised the offering price, issued more stock, and still people piled it in." The money will be used for working capital (?) and is estimated to be \$74 million.

In 1986 Hewlett-Packard made the most money on sales and the most profit of any Silicon Valley electronic firm. H-P sold \$7.1 billion in equipment.

Advanced Micro Devices is seeking \$1 billion in damages from Intel Corporation. AMD claims Intel violated an agreement to allow it to manufacture the 80386. AMD has also indicated it would accept \$100 million in "direct" damages if settled out of court.

**APPLE NEWS:** Steve Wozniak's company, CL9, introduced it's first product at CES in Chicago. CORE is a controller that will accept macros to turn on, off, or make adjustments to, many infrared activated devices. It was demonstrated controlling 3 VCR's, 2 TV's and a stereo system. CORE won CES' innovative design and engineering award and will be on the market next month at \$199.

Steve also has recently donated \$100,000 to his alma mater, the University of Colorado, for a scholarship fund for hackers. He said the award must be given to the "mild social deviants" who could benefit from a tuition grant and a job in the CS Department. "The value of cracking security codes and understanding them is that it generates incredible knowledge."

Wozniak received probation at UC in 1969 for penetrating the computer system's math records.

**CLONE NEWS:** Chips and Technologies will be shipping its reverse engineered PS/2 MicroChannel Architecture chip by the end of the year. PS/2 clones are expected to appear by the first quarter of 1988.

China Computer Development Corporation has introduced the Great Wall 286 and the GW220. The 286 system is four times faster than an IBM AT and the GW220 is a dumb terminal. The Beijing company has already signed \$10 million (US) worth of contracts with the U.S., Australia, and Thailand.

The mail order firm TECH PC is currently under investigation for fraud and police say the company has disappeared. They ran many large ads and gave the impression of being a well established firm. If you are one of the many buyers to have been "stiffed" call Detective Dwain Briggs at the Fraud Division of the Anaheim Police Department.

**QUOTE:** Borland's President, Philippe Kahn, recently made note of the size of the OS/2 operating system. "It has 1.2 million lines of C code. How can you possibly debug 1.2 million lines."

**NERD TEST:** Some sure signs of high-tech burn out were recently published in the Automated Evangelist News. Have you started coding in Ventura because it's so easy to turn your gosubs helvetica? Have you begun writing share-ware for Cray computers? Do you occasionally read this column for its intellectual content? Do you enjoy programing in APL? Are you using Sidekick to keep score of this test? Did you contribute to the Laptops For The Contras Fund? Have you considered naming your next child Doloop? Are you trying to figure out what's wrong with the name Doloop? Is your name Doloop? If you answered YES to any of these questions, mail \$100 to Nerds In Need, c/o ORU, Tulsa, Ok.



**WANTED:** Gossip, rumors, hearsay, revealing personal or sensational facts. Submit to NOTS c/o our newsletter editor.

nots



**SWAP  SHOP**

Four lines free each month to members; 5th through 10th lines at 15 cents per word. Larger ads at commercial space rates. Send check to the Editor for words exceeding the four-line limit. Free ads are on a space-available basis. Mail ads to the Editor.

Techmar Graphics Master Card, MON/CGA and 640x480 color/720x700 MON in Terminal Emulator mode. \$200. Call Mike Carathers 272-0515 ext 5136 between 8:00 AM - 4:30 PM

WANTED: Altos Computer System (2086) with 190M HD, 8M RAM, 12.5 Mhz Switch, 20 serial ports. Call 261-4542. Leave message.

DO YOU KNOW WHERE YOUR FILES ARE? Label your diskettes with this Super Directory and Label Printing Kit. As easy to use as DIR. Send \$15 for 200 labels and software for Epson/IBM printers. Call (408)646-1373 or write Moby Disc, 1021 San Carlos Road, Pebble Beach, CA 93953

TEXAS A&M UNIVERSITY graduate with BS in Computer Science seeks position to utilize his computer skills. Experience includes software engineering, data structures, database management, operating systems, scientific applications, and other areas. Contact: Stephen Jagers, 2525 Players Court #314, Dallas, TX 75252. (214)306-8887.

AT BASIC 6/10 MHz 512K (120ns) Phoenix BIOS AT Controller (HD, FD), 1.2MB drive, tested by Engineer. All for \$825. Or trade in your XT and get a brand new, reliable AT clone. Hard disk installed and set up for \$15.00. Upgrade your hard disk: 20MB/CONT ---\$290. 40MB/CONT (ST-251) --\$645. 60MB/CONT (25ms) ---\$975. 80MB (28ms) ---\$835. 45MB (Prim. Voice Coil Auto Lock) ---\$685. All are new parts and 9-month warranty. Call Tai at 252-0381 and get fast quality service.

dBase Programmers Wanted. Small consulting firm looking for highly qualified dBase programmers willing to work on an as needed basis. Send resume, and a brief synopsis of your special abilities to Computer Systems Analysis, 17610 Midway

**Complimentary Memberships**

The club offers complimentary memberships to members who submit original articles for publication in North Texas PC NEWS.

**Ground Rules**

Subject matter. Articles may cover any aspect of the IBM Personal Computer and compatible computers. Main criteria is that they be of interest to members of our group. Some typical subjects include: Hands-on review or personal experience with new software, hardware or techniques... Peripheral interconnection problems and solutions... How-to articles on furniture,

diskette storage, Printer paper control... New and unique tree structure for hard disk users... etc., etc.

Number and Length of Articles. Four or more articles during one membership year. Each article must be original and a minimum length of 400 words.

Submission. Submit general articles to the Editor; software articles to Software Review Editor. Phone numbers are shown on the inside front cover of the newsletter.

Format. Do not right-justify, indent or otherwise code the copy. If column alignment is critical, send along a hard copy, or written instructions. Article submission is preferred by modem (817/275-4109 or StarText 51563), or disk in ASCII format, unjustified. If you send a disk, please include a printed copy of the article to assure accuracy. Double spaced, typewritten copy is acceptable but must be received a week before the deadline.

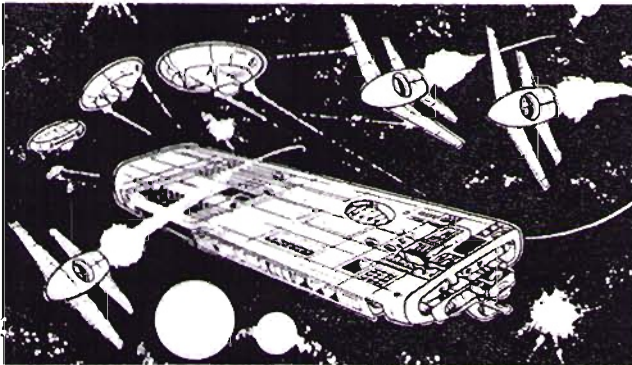
Notify Membership Director. Before membership expires, eligible members must provide a listing of published articles to the Membership Director for award of the complimentary membership.

North Texas PC NEWS Financial Report	
13 June 1987	
January - June 1987*	
(June Printing 1260)	
<b>INCOME:</b>	
Advertising, Labels	\$ 1066.20
Cash from Treasury	8000.00
BALANCE - Dec 1986	54.44
	-----
	\$ 9120.64
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<b>EXPENSES:</b>	
Office, Art Supplies	\$ 56.99
Misc (Copies, Laser Repro, Startext, PS Tech WP Update, Desktop Publ Seminar)	328.70
Print, Dist & Mail NTPCN	8295.89
Telephone Calls	87.56
BALANCE - 13 June 1987	351.50
	-----
	\$ 9120.64
*Includes 6 issues & 1 reprint	



Disk of the Month

Howard B. Hamilton, Jr., Ph.D.



The Disk of the Month for August 1987 is QUANTOIDS OF NEBULOUS IV, by KludgeWare, San Francisco, CA. This is an arcade, real time space action game. The viewpoint is from the cockpit of an advanced space cruiser. The object is to pilot through space using the computer enemy locator and blast your opponents to bits, without being hit by return fire. QUANTOIDS is written for IBM PCs running at AT speeds with an 80286 board, color graphics, and at least 256k of RAM. The author claims it will run on regular IBM PCs with color and graphics, but is not recommended for them. The code is written in compiled QuickBasic, so it should run on IBM compatibles. The program will be reviewed and the introductory README file written by group member Mark Gruner.

We want to thank Mark for his review and the volunteers who reviewed software and wrote README files for July: Ed Reardon and Christine Timcheck (both new members of our user group), as well as Kathy Crawford and Ken Loafman, (both DOM committee members). We also want to thank Dwight Neal and the many volunteers he has signed up to help operate the DOM desk and pass out the six thousand disks that you have purchased since January. If you can spare an hour on meeting Saturday to help, please send Dwight a message on the group bulletin board or give him a call at 386-4949 (days) or 985-7929 (evenings).

July Software Review

Elsewhere in this issue is a review of the July Disk of the Month, GT-PowerComm (Disk 0182A/B), enthusiastically written by Ed Reardon. Both disks A and B are required to use GT-PowerComm; disk B also contains two companion programs that work together with GT-PowerComm.

Disk 0183, WPK - Work Processing for Kids is member Sid Nolte's version 2.1, dated November 1986. Disk 0184 is The Master Checkbook - Demo version of software that provides easy to use check accounting records for home or business; up to 30 transactions in two accounts can be entered in the demo version. Disk 0185, FLOWCHARTER version 1.45, dated March 1986, provides a programmer with the capability to produce flowcharts on dot matrix printers. Disk 0186, SmartForecasts II TRAINER/DEMO provides automatic and eyeball adjustable forecasts with many forecasting models; the demo version is fully functional but limits the number of observations and will not import or export data. Disk 0187A/B, Fansi-Console, version 2.00G, is a recent version of a fast ANSI x3.64 standard console driver (screen and keyboard enhancer) for the IBM-PC.



Fire Sale

In order to provide you with as much of the current shareware and other software available as possible, we need to reduce the volume of disks that we lug back and forth (without selling) to each monthly meeting. We have identified some low volume disks and will offer them at the AUGUST MEETING ONLY for the amazing price of only one (I said ONE) dollar per disk. With the exception of the demo disks and the last four disks listed, most of these disks will be retired from the active library after the sale. I hope that club members will find and contribute more recent versions of this software. We plan to provide special order forms in the future so that group members can still order old software that we no longer carry to the meetings.

DISK	TITLE
Demo1	IBM Writing Assistant
Demo2	BDS, TENKEY, MEDIA MAGICIAN,
Demo3	GASP DOS shell demo version
Demo4	WINDOWS DRAW demo version
Demo5	MICROSOFT CODEVIEW - debugger
Demo6	ABC Andrew TOBIAS Managing Your Money
8302	MAZE AND UTILITES
8304	Games: GOMOKU, PACMAN,
8308	UTILITIES: WS custom files
8401	Sample PASCAL source programs
8402	1 Ringy-Dingy, Math Tutor,
8409	Galaxy Trek, UTIL & Corewar
8412	Whizzard BASIC Speedup

8501BASIC Professor, Word processing  
 8503PC-TAX84 Ver 84.8C  
 8602ACCUTAX 1985  
 0003LADYBUG Turtle Graphics (LOGO)  
 0004UTIL, SWLPT, SPEED411, etc.  
 0006FREECALC (Spreadsheet)  
 0015Assembly Language class examples  
 0018Ultra Utilities (Zap, File, etc.)  
 0022POWER worksheets  
 0023FREECOPY (DISKCOPY function)  
 0024A/B CIP DATA BASE Trial Version (360k)  
 0031PC-VT v7.6  
 0035SIMTERM (HP-like terminal)  
 0036SMALL-C:PC (C compiler)  
 0038Full Screen Editor Demo and  
 0046HOST-III & HOSTCALL  
 0048PC DEAL VERSION  
 00503by5 v1.0: text search program  
 0053DOS PATCH UTILITY  
 0058LOTUS 1-2-3 cash flow ledger  
 0064A/B FITT 85-- LOTUS 1-2-3 template  
 0081JUNIOR MUSIC MACHINE  
 0089XLISP V. 1.6  
 0090PD PROLOG V. 1.7K  
 0091CASTAWAY & SOUTH AMERICA TREK

### New Software Selection

At the July main meeting, the question was raised about how we select the software to be added to the Disk of the Month library. Well, you, the group members, select the software. Individual members donate copies of distribution disks or disks of software which has been downloaded from various bulletin boards. After we determine that the software is shareware or otherwise legal for distribution, individual members (including the committee members) volunteer to review the software and write introductory README files for each disk. So if you want our library to be better, more inclusive, more esoteric, or more up-to-date, lend a hand; all it takes is your time and a little effort.

### Distribution Suspended

We have had to suspend distribution of the following disks because we do not have a good copy of the disks. Disk 0025 contains spreadsheet templates for Lotus 1-2-3. There may be nothing wrong with the templates, but the documentation has three stretches of garble, which may be disconcerting, not knowing how much is missing. Disk 0034: the text files have no text at all; I don't know if any of the programs work. Disk 126: Family History has a batch file, GO.BAT, that refers to a non-existent directory and generates had commands; the programs may be perfectly OK. Group members, please, if you have a copy of one of these disks and don't have these problems, please make us a copy and bring it to the DOM table next month, or tell me what to do with GO.BAT.

### Problems with a DOM Disk?

If you have a problem with a disk you have purchased at the DOM table, please write down the problem on a piece of paper and turn it in with the disk for an exchange (or refund.) We look at each disk returned and try to determine if we have a problem with our library disks. So, please help by telling us what is wrong with any disk you return. We also welcome your suggestions and ideas, but we can't assimilate very much while trying to satisfy our customers; write it down, please.

### Thanks Tim

Tim O'Neil has been responsible for tripling the size of the DOM library and doubling the monthly sales of software for our user group members in less than a year. Tim has spent many hours to achieve these results. In doing so, he has missed participating in the other activities of the North Texas PC Users Group. Now he is stepping down, but not out. Tim will continue to provide mail order services and software registration, help maintain the documentation notebooks, and count the money. Now, you may get to see Tim at some of the SIG meetings or just wandering around. I am sure you will all want to join me in saying, "Thanks, Tim!!"

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### DOM Particulars

The North Texas PC Users Group copies these programs as a service to the club and its members. We try to test all the programs, but we do not warrant the programs in any way. You must decide if a program is suitable for your system and use. If you ask, we will tell you what we know about any program, but the final decision to buy and/or use these programs is yours. We will gladly and without question exchange an unreadable diskette for one of the same program.

**EXCHANGE:** All members of the club are encouraged to contribute copies of public domain programs to the club library. For each new diskette of software contributed, you may select any diskette in the club library in exchange. The contributions will be reviewed before credit is issued at the next meeting.

**MAIL ORDERS:** At prevailing prices plus \$1.00 for mailer and postage. Mail your order to Tim O'Neil, Box 396, Bedford, TX 76021.

**PRICE:** Members: \$2.00 per diskette (if the program is on two diskettes the price is \$4.00). Non-members \$3.00 each diskette.

**CATALOG DISKETTES:** Currently this is a two volume set priced at \$4.00. This has all of the readme files from each diskette in the club library.

**MEDIA:** DSDD 5 1/4" Formatted as 9 sector data diskettes. Public domain software only, standard full disclaimers.

**AVAILABILITY:** We will do our best to have all past diskettes at each meeting. DOM sales will begin at the DOM counter around 9:00, and continue until 2:00 PM.

**IBM EXCHANGE NEWSLETTER:** The EXCHANGE for the current month will be available at the auditorium AFTER the main meeting, at no charge to paid up members of the NTPCUG.

**DATELINE: NEW YORK**

# Executive confesses to computer collaboration using In-Synch!

John Merson, noted microcomputer industry executive, has confessed to using IN-SYNCH for the purpose of computer collaboration. This is the first public statement in what appears to be the rapid proliferation of IN-SYNCH-based co-computing throughout industry and government.

## Collaborating the Easy Way

In an exclusive interview, Merson recounted his actions, from his first co-computing session to his full-blown use of IN-SYNCH. "It started innocently enough," Merson said. "My partner, who was working in our branch office, needed help drafting a proposal for a prospective new client. With IN-SYNCH, we were able to work together, in real-time, on a WordPerfect document as well as a 1-2-3 spreadsheet. We even developed an AutoCAD drawing and threw in some ChartMaster graphs to spice up the proposal. IN-SYNCH made co-computing easy and quick—just as if we were sitting side-by-side. No fax machines. No overnight mail. No special networking. Just our modems and the regular phone lines."

## Collaborators Get Carried Away

According to Merson, the computer collaboration didn't stop there. "I guess I got carried away," admitted Merson, "but it was amazing what we could do with IN-SYNCH." Apparently, Merson and his partner next used IN-SYNCH to prepare a slide presentation, using screens selected from the proposal they had developed. These sequenced "slides", including text, drawings, graphs and spreadsheet data, were then shown PC-to-PC (again using IN-SYNCH) to their prospective client. "The prospect had IN-SYNCH on his PC too," continued Merson, "so we dialed him up and delivered our sales pitch online. He loved it! Said it was just the kind of state-of-the-art stuff he needs in today's fast-paced business world. We beat out the competition and got the job."



## Collaborating and Proud of It

Merson showed little remorse. "You'd do the same thing if you saw IN-SYNCH. This co-computing is going to catch on like crazy. The possibilities are too hot to ignore. You can co-run all the popular PC software packages. You can transmit and annotate "snapshots" of screen displays. Develop, save and present "slide shows." And IN-SYNCH keeps "minutes" so you've got a complete audit trail of everything you've done. Managers, engineers, programmers, sales people—they're all going to be co-computing with IN-SYNCH. I just did it first. And I'll certainly do it again. And again!"

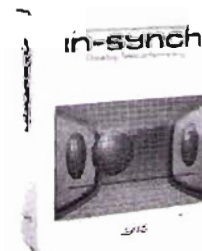
## Poll Shows Collaboration Spreading

Results of an unofficial poll taken by this reporter show Merson's prediction to be proving true. An inside source at MCI stated, "We use IN-SYNCH all the time to analyze important revenue data. It eliminates the need to express diskettes between headquarters and remote branches." And according to a highly-placed source at Rockwell International, "We're using IN-SYNCH for software development as well as for the training of new PC program users." In perhaps the most stunning admission, the president of Engineering Computer Services, Inc. said, "We're using IN-SYNCH with AutoCAD to help

designers and clients review architectural drawings, thereby expediting schedules and cutting costs."

## Cheers for Collaborators

According to a spokesman for AVTC, producer of IN-SYNCH, the company will not press charges against Merson. "We knew when we released IN-SYNCH that it was the first and only product to bring teleconferencing to the desktop of every PC user. With an innovative product, you've got to expect innovative uses. Off the record, well, frankly we're delighted and we'd just like to say: keep on collaborating!"



For more information or the name of your nearest IN-SYNCH dealer, Call 1-800-641-4461 ext. 65 In New York State, 516-420-8080 ext. 65



American Video Teleconferencing Corp.  
110 Bi-County Boulevard  
Farmingdale, New York 11735

MEMBERSHIP APPLICATION

North Texas PC Users Group

The NTPCUG is a non-profit, independent organization of individuals learning to apply personal computers to practical problems. For additional information about the Group, call (214) 748-3297.



Application Status: (Check One)
>>>> NEW MEMBER
>>>> RENEWAL
>>>> CHANGE OF ADDRESS

(Please Print Clearly or Type)

NAME: (Last) \_\_\_\_\_ (First) \_\_\_\_\_ (MI) \_\_\_\_\_

OR Company/Organization: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ (Suite/Apt) \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: Home (\_\_\_\_) \_\_\_\_\_ ; Work (\_\_\_\_) \_\_\_\_\_ (Ext) \_\_\_\_\_ (Check Preferred #.)

Do you want access to the Club RBBS \_\_\_\_\_?

Please Initial here \_\_\_\_\_ if you wish to have your address included on member lists sold for the club's benefit to advertisers of IBM compatible products.

The NTPCUG expects and encourages volunteer participation by members in helping put on the monthly meetings at INFOMART. This usually consists of a few hours of your time each year. If asked, would you consider assisting the Group with one or more of the following activities:

[A] Working with NTPCUG Volunteer committees?. (See below, and description of activities on reverse.)

Volunteer Areas from [A] above (Please check all that apply.)

- [IB] Information/Registration [MM] Membership [GP] Group Purchase
[NL] Newsletter [ES] Equipment Setup [FB] Financial/Bookkeeping
[DM] Disk of the Month (DOM) [PR] Publicity/Public Relations [ST] Startext NTPCUG Column

- [B] Giving a talk or demonstration to a small group?,
[C] Giving a talk or demonstration to a large group?,
[D] Being a volunteer, informal "consultant" in your area of expertise for NTPCUG members?

Would you be interested if the Group arranges instructional courses (at various levels) in any of the following areas at a cost per student of approximately \$5/classroom hour?

(Please circle or specify, indicating level preferred, i.e., beginning, intermediate, advanced, etc.)

- [A] Spreadsheet software -- Lotus 1-2-3, SuperCalc4 etc., (Please specify) \_\_\_\_\_
[B] Data Base software -- dBase, RBase, Reflex, etc., (Please specify) \_\_\_\_\_
[C] Word processing software -- Word Perfect, Wordstar, etc., (Please specify) \_\_\_\_\_
[D] Integrated software -- Framework, Symphony, etc., (Please specify) \_\_\_\_\_
[E] Programming Languages -- APL, Assembly, Basic, "C", Fortran, Forth, Pascal, (other) \_\_\_\_\_

Do not write in this area -- for use by NTPCUG

Annual Dues are: \$24.00 (Regular Membership) \_\_\_\_\_ \$12.00 (Student Membership with ID) \_\_\_\_\_

Applications should be mailed to: North Texas PC Users Group, Inc.
(P.O. Box 780066)
(Make checks payable to NTPCUG.) Dallas, TX 75378-0066

Received: \$ \_\_\_\_\_ Check No. \_\_\_\_\_ Date: \_\_\_/\_\_\_/\_\_\_ BY \_\_\_\_\_



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## Selected SIG Happenings

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### General Special Interest Group (SIG) Information

A reminder that any SIG news items for this newsletter must be received by noon of the 14th of the month -- regardless of the date of the next meeting.

### APL SIG

We will not meet in August. Meetings will resume in September.

Jim Fiegenshue

### Astrometry SIG

James Rusk will be Host and speaker for the August Astrometry meeting. James is the director of the Mesquite ISD planetarium and will talk about "Viewing Historical Solar Eclipses with a MicroComputer". James will tell about some of his experiences using his PC to validate and refine some early historical accounts of solar eclipses with a "planetarium" type program.

Arlin B. Collins

### BEGINNERS SIG

August will be the second part of the 3-part Beginners series. These sessions are for the new, or relatively new, PC user, and cover the fundamentals of hardware, DOS, and "how to get started".

Gordon Baskett

### "C" SIG

By viewing the shelf of books available at the bookstore, it is apparent that C is becoming enormously popular. These books along with the many excellent low-priced C compilers and debuggers are making C available to us all. Come join us at the C SIG and learn more about the C language.

The program for the August meeting will include a presentation of windows libraries. The package by Vermont Software and the user supported Window Boss will be among those discussed.

Sid Nolte

### dBase Programmers SIG

Congratulations to Tom Richards who was the winner of Clipper, a dBase compiler, at our July meeting.

Our August meeting is set out to be potentially the most exciting meeting we have ever had. The topic of our discussion will be on Synergy Desktop and The Synergy Development Toolkit. These programs allow you to develop applications within dBase or Clipper that have the look and feel of the Microsoft Windows environment. This will be beneficial for those developers that don't want to spend the hours, weeks, and months, supporting clients because their software is too difficult to use. If you are charging by the hour for this support, you may not want to share the information presented in this meeting with your client (a little consultant humor).

If you still need some convincing, read the article entitled "Why Windows?" by yours truly in this newsletter.

### DOS SIG

At the July meeting we discussed .BAT files and DOS 3.3 problems. August will see a continuation of focus on .BAT files, with tips for advanced usage and helpful utilities that extend the usefulness of MS/PC-DOS .BAT programs for the average user.

Reagan Andrews

### Hardware Solutions SIG

Last meeting we covered various compatibility and connectivity problems requested by members. We discussed data transfers between the PC and PS/2, adding 3 1/2-inch drives to PC's, compatibility of various EGA cards, and other assorted topics. August will likely follow the same pattern.

### Personal Financial Planning SIG

Yes, the SIG IS alive and well!

The program for the July meeting was cancelled on very short notice, because of a sudden emergency of the leader. This, of course, points up the need for an assistant who can fill in at least in emergency situations. All those who are interested please contact me.

In August, we will discuss the results of our survey, and outline our priority projects for the next six months, including both software and hardware. A very important topic will be whether we should direct our efforts towards the "users" of Personal Financial Planning, or towards the professional or "practitioner".

Note that our August meeting is scheduled for 9 AM. We will also discuss which of the available times are most desirable for future meetings.

Michael Stoddard





## North Texas PC Users Group

### Volunteer Activities

*You don't need to be an expert computer-user to help!*

Without members' volunteer efforts, the NTPCUG would be greatly diminished -- both in scope of its activities, and in the quality of Club functions. There are a number of areas where member-volunteers greatly assist the Group in conducting smoothly-running, enjoyable monthly meetings. Many of these volunteer activities don't require "expert" computer users, but do require people who are willing to give an hour or so of their time to the Club.

In return, they have the opportunity to meet other members, get to know the Club's officers (this may or may not be a benefit) and SIG leaders, and, enjoy interacting with other volunteers in the semi-organized chaos of monthly meetings.

#### Volunteer Areas where assistance is needed

**Information/Registration** -- working one-hour shifts at the NTPCUG's Registration and Information Booth in the lobby of INFOMART at monthly meetings. Activities include; helping people join the Club, taking change-of-address and membership renewals, providing information on schedule changes, etc. The Booth is a casual focal point for many members, SIG leaders and officers throughout the day and a major message center. For more information, contact Connie Andrews (214)828-0699 or Bob Russell (214)422-4269.

**Disk of the Month (DOM)** -- DOM's are one of the more popular aspects of NTPCUG membership for many members. Activities encompass a wide range of DOM-related functions from manning the Disk of the Month Booth in the INFOMART during monthly meetings to testing and reviewing software submitted for Club DOM's. This is one of the more active centers during meetings and is one place where almost every Club member appears at least once during the day. For further details, contact Tim O'Neil (817)267-8981.

**North Texas PC NEWS** -- The Club newsletter, published monthly by Editor/Publisher John Pribyl, and provides a variety of volunteer opportunities for members with interests in writing, editing, sales and other activities. This is one of the more "visible" Club functions and members with journalistic skills/interests/backgrounds are strongly encouraged to participate in its publication activities. Interested members should contact John Pribyl, Editor/Publisher (817)275-4109, Carlisle Phillips, Assistant Editor, Tom Prickett, Newsletter Exchange Editor, or Dick Gall, Software Review Editor.

**Publicity/Public Relations** -- NTPCUG is a very vigorous organization with significant impact on the PC user community in the Metroplex. Getting the Group's message out to media on important addresses and presentations, Club activities and other PC user news is equally vital. Interested members with Publicity/PR skills/expertise are encouraged to contact Jim Hoisington, President, (214)416-3101, Stuart Yarus, Board of Directors, (214)867-8012, or Reagan Andrews, President Elect, (214)828-0699.



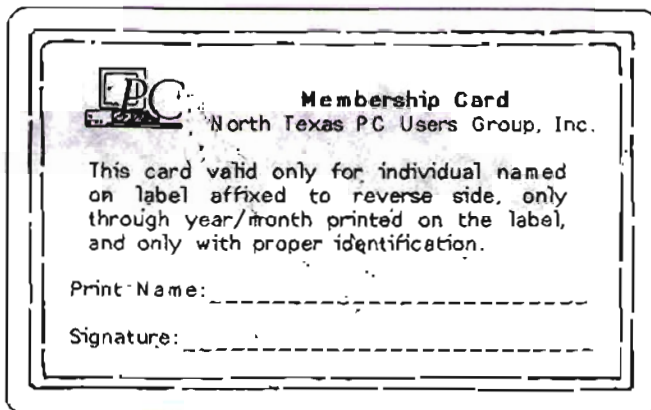
**VOLUNTEER NOW!**



### MEMBERSHIP CARD

This is your membership card in North Texas PC Users Group. You will need it for identification at Disk of the Month sales, group purchases and other activities. This card is valid only for you, the person named on label on reverse side. It is valid through expiration date shown on the label.

When trimmed, the card will fit the holders previously furnished for Infomart cards which are no longer required. Wear your membership card instead. Additional holders will be available at a nominal charge.



Trim card to wallet size.

## Room Assignments



Saturday, 8 August 1987

9:00 AM to 9:45 AM  
AUDITORIUM

### \* COMPUTER MAGIC \*

Computer Magic: The World of Computer Imagery is a film produced by Colyer Dupont Cinemagic Productions in San Francisco, Ca. It's an extremely well done documentary on computer graphics and has been graciously loaned to us by Infomart's Resource Center.

10:00 AM to 11:00 AM  
AUDITORIUM

### \* EZRA SHAPIRO \*

Ezra Shapiro was BYTE Magazine's West Coast Bureau Chief from 1983 to 1986 and is currently that periodicals Consulting Editor. Ezra would like to talk with us about, "Mental Cruelty: A Sceptical Ramble Thru The Corridors Of The High-Tech Religion".

*Scheduled SIG times could change. Check the Bulletin Board just before the meeting. Check room numbers in lobby at INFOMART.*

*Note: No APL meeting in August.*

<u>8:30 - 9:55</u>	<u>9:00 - 10:55</u>	<u>1:00 - 1:55</u>
Beginners	Genealogy (w/Apple)	Artificial Intelligence
<u>9:00 - 9:55</u>	<u>9:30 - 9:55</u>	Business Applications
Assembler	Orientation	Communications
Astrometry	<u>11:30 - 11:55</u>	Data Bases
DOS	Orientation	LOTUS
ENABLE	<u>12:00 - 12:55</u>	<u>2:00 - 2:55</u>
Graphics	C Language	BASIC Applications
Hardware Solutions	Turbo Pascal	Advanced Programmers
Science/Engineering		dBase Programmers
Personal Finan. Planning		



North Texas PC NEWS

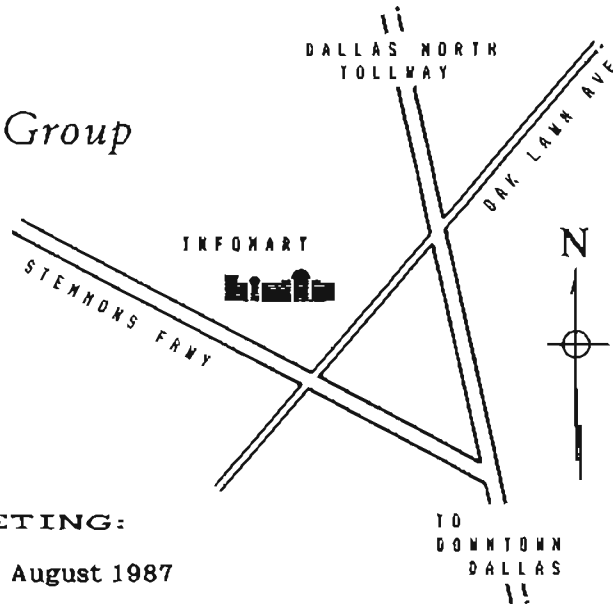
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North Texas PC Users Group



NEXT MEETING:

8 August 1987