

TPUG Newsletter

Views and News of Toronto Pet Users Group, Inc.

5334 Yonge Street, Box #116

Willowdale, Ontario, M2N 6M2

(416) 253-9637

Volume 4, Number 2

Winter 1991



"But where does the keyboard go?"

President's Comments

There are a few things active people of my generation find out sooner or later. One would be that the golden years you have been looking forward for years are not that golden. The next thing is that time flies by in an incredible speed. You will find that you have less time than you had in your working days.

When the Board of Directors elected me as your President it hardly seemed possible that a year could pass so quickly. In today's newsletter I am addressing you for the last time as president of TPUG, and wish to take this opportunity to thank all of you who have served this organization, and particularly those who have worked with me. May I assure you that I appreciate very much the cooperation of every one of you.

As I look back over the past year there are one or two events that stand out very clearly in my mind. To survive the trend of going under in these troubled economic times we know that we must have more new members or have our members who fell through the cracks when our database left us hanging in the cold renew their memberships. Well, that was certainly an ambitious undertaking, and our dynamic Danny Forget, the membership chairman and in charge of the database, did it. [Cont'd page 3]

For users of all
Commodore Computers

- ★ PET/CBM
- ★ SuperPET
- ★ B128
- ★ VIC 20
- ★ C64
- ★ Plus/4
- ★ C16
- ★ C128
- ★ Amiga
- ★ PC/MS-DOS

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Machines International

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Member Information

Office
(416) 253-9637

Membership Rates

Canada \$25
USA US \$25
International (air mailed) US \$45
To join, send form on page 7

Board of Directors

Walther Melamet-Vetter president
Michelle Hyland vice president
John Easton secretary
Bill Cumberland treasurer
Al Farquharson past president
Ernie Chorny director
Art Evans director
Dan Forget director
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John Easton PET/CBM
Dan Forget SuperPET/PET/CBM
George Skinner Amiga
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Mail Walther Melamet-Vetter
Telephone Michelle Hyland
Tim Hyland
Disk Orders librarians
Database Dan Forget
Al Farquharson
Meetings Wilf Meissner
Ernie Chorny
Publicity vacant
Finance Bill Cumberland
Walther Melamet-Vetter
BoD Minutes Ernie Chorny
Shows Ian McIntosh
and a cast of dozens
BBS Sysop Sylvia Gallus
Q-Link Sysop Doug Rodger

Newsletter

Editor John Easton 251-1511
Asst Editor Ian McIntosh 757-8399

Meeting Schedule

Central C128 **First Tuesday** of the month
(no meetings July and August)
Ray Whidden - 297-0763

Central Amiga **Second Tuesday** of the month
(no meetings July and August)
George Skinner - 225-8538 (evenings)

Central C64 **Fourth Tuesday** of the month
(moved July, August and December)
Dr. Wilf Meissner - 789-4335

The Central Meetings are at **7:30 pm** in the **York Public Library Main Branch** Story Hour Room (downstairs), 1745 Eglinton Ave West (one block east of Dufferin).

Amiga Commications **Saturday, April 20th 4 - 9 pm**
George Skinner - 225-8538 (evenings)

Annual Business **Thursday, May 9th** - see page 8

Westside C64 + C128 + Amiga etc **Third Thursday** of the month
except July, August and December
Ernie Chorny - 279-2730
C64: Bill Cumberland - 278-7687

The Amiga Communications, Business and Westside meetings are at **7:30 pm** in **Alderwood United Church, 44 Delma Drive**, Etobicoke.

Delma Drive is just west of and parallel to Browns Line, south of the Queen Elizabeth Highway, north of Horner Avenue. **From the west**, exit QEW at Evans Ave, east on Evans to second stoplight, south on Gair to Delma. **From the north or east**, exit QEW or Hwy 427 to Browns Line / Evans Ave ramp, exit right to Evans, west on Evans to first stoplight, south on Gair to Delma.

TPUG BBS

Toronto 733-2933
Mississauga 273-6300

These are forwarded to the TPUG office (voice only)

Noon-5pm Monday-Friday

300 / 1200 / 2400 bps
8 data bits, 1 stop, no parity
Type "?" at prompts for help
Password not required

Quantumlink

The TPUG SIG is located in Q-Link's Commodore Information Network User Group Support Center

TPUG signons are
TPUGOFFICE
TPUGMAIL
Tpg news

TPUG Newsletter is published quarterly by the Toronto Pet Users Group (TPUG) Inc., a Commodore computer users club. TPUG is a volunteer non-profit corporation dedicated to the service and support of owners and users of Commodore computers.

All rights to material published in TPUG Newsletter are reserved by TPUG, Inc. and no material may be reprinted without written permission, except where specifically stated. When reprinting is authorized, please credit TPUG Newsletter, the issue date, and the author.

Articles, letters, tips, questions, etc are welcome. Send hardcopy or disks "Attention: TPUG Newsletter", or use our BBS or QLink.

Advertisements are also welcome. Members' small ads are free. Commercial ads are \$200 per page with a \$25 minimum.

Office And Storeroom

TPUG has moved to a larger storeroom and smaller office. The Yonge Street mailing address will still reach us. After a few weeks interruption, the same telephone numbers work again now.

New Lower Disk Prices

TPUG disk prices have been cut substantially. Amiga prices are now \$4 (43% lower) and 5 1/4" are \$3 (40% less). Our librarians, new and old, have been busy, and this is a good time to use the new order form on page 7! Feel free to copy it, and pass it on to others.

Prices at meetings are slightly lower - \$3.70 + 30¢ PST and \$2.78 + 22¢ PST, with no Shipping and Handling, so you save even more while you learn and enjoy.

There's still time to get **Jim Butterfield's TAX90**. One version runs on the Amiga, the other on C64/C128/PET/etc.

Membership Renewals!

Don't forget to renew! We can no longer afford to send multiple reminders and free newsletters. You can renew at meetings, shows we attend, or by sending a copy of the order form on page 7. We accept Visa and MasterCard.

TPUG At The Shows

Since last issue, we've been to the fall Computer Fest, World of Commodore / Amiga VIII, the Toronto Ontario Computer Fair, and the spring Computer Fest. That's 8 shows - 18 show days - in under a year!

Amiga Communications Meeting

There will be a special meeting for Amiga users on Saturday, April 20th, from 4 to 9 pm with a supper break. See page 2 for directions. It will cover everything from basic BBS usage to archiving and compression utilities.

Disk Subscriptions

In early 1988 TPUG stopped accepting disk subscription orders. CCCC's order was received in late 1989 and the cheque cashed, but of course no disks were sent. We did the same to VCC, another club. Yes, they have both been offered a full refund, and a year's membership free - we are a club not a scam. If we owe *you* anything, please tell us.

Board of Directors

Art Evans and Doug Rodger have been appointed to the board. Ken Poulton has left. See page 8 for the Annual Business Meeting announcement.

Amiga Extras

Gigatron has displayed a *notebook sized* Amiga!

Mindware International (110 Dunlop St W Box 22158 Barrie ON L4M 5R3) has animation software and a disk magazine "Amiga Animation and Video Techniques". A 4 disk sample is \$29.95; a 36 disk subscription is \$129.

ICD has an accelerator to double the speed of an Amiga 500, 1000, or 2000, and a Flicker Free Video™ VGA board.

Pre'spect has so much good stuff, it won't fit here! ALF hard disk interfaces, internal A500 hard disks, external A500 keyboards, parallel & serial ports, RAM expansion, double speed A500s, 12 mhz bridgeboards, A2000 tower cases, heavy duty A500 power supplies, cartridge tape drives, software ... See their ad on page 14.



"Those new members must be in here somewhere!"

Commodore News

James McWhinnie has replaced Jim Dionne as Commodore Canada's president. Dionne has moved to West Chester, PA.

Nolan Bushnell invented Pong, the first video game, and founded Atari. Now he heads up US CDTV marketing.

Great European sales tripled CBM's 4Q profit and sent stock prices soaring, when they usually drop during winter.

Commodore's 7 lb C286-LT MS-DOS notebook computer was shown at WOC/A. Their new \$379 MPS-1270 Ink Jet printer looks like a winner too - quiet, fast, great output, and of course less expensive than the competition.

CBM officially announced their impressive Amiga 3500 Unix System V.4 workstation at the UniForum show. Thousands have already been delivered.

See your dealer for details of the new discount deal for owners of any older CBM model upgrading to an Amiga.

President's Comments (cont'd from page 1)

The next thing that comes to my mind is the enthusiastic help offered by our members in the Toronto area at the Commodore show and the Computer Fest. Without their help we could not have done it.

One final request: I have done whatever I felt was necessary to streamline the organization to put it back on track. We still have problems to solve, difficulties to face, and the new president will have to meet many responsibilities in the coming year. I am going to ask all of you to give him every possible assistance, to accord him your moral and physical support, to offer your help before he finds it necessary to ask for it. Again, thank you and so long.

Walther Melamet-Vetter

New DVORAK Command on Punter Software

Learning to type is easier with the simplified, language-based arrangement of the computer keys, and readers may now try "DV" on the TPUG BBS.

The New Stelex Sector BBS (TNSS), Node 9 on PunterNet, has announced the inclusion of a DVORAK command in the PC-PunterNet software.

Along with full ANSI support, a full-screen editor, ZMODEM file transfer protocol, etc., Steve Punter's \$195 BBS and "super terminal" package now contains a built-in DV command. The addition of Dvorak to PC-PunterNet means that for the first time, users won't require any special equipment besides a modem and a terminal program to try the simplified arrangement of the computer keys.

• How It Works

First, log on and buffer a text file of instructions by entering "DV" at any command prompt. When you enter the "DV" command by itself, you will be asked if you wish to try a temporary change. After you answer "yes", the BBS will begin to echo back a Dvorak character for each character you send. That is, while the letter A remains the same, pressing S on your computer will display an O on the screen, D will become E, F becomes U etc. Roughly seventy per cent of the words in English may be typed on the "home row" in Dvorak - AOEUIDHTNS.

Typing "DV" again resets everything to the common "QWERTY" keyboard layout. Remember, help is available at literally every prompt on PCPN - simply type "?".

• Easier To Learn

The Dvorak keyboard layout, an ANSI standard, can make learning to type easier. Very important for literacy and retraining issues, the Dvorak layout has profound implications for primary education, as well as for people new to computing.

Besides TPUG (Node 2), the new command is available on all PunterNet nodes which have upgraded to current releases of the MS-DOS version of the Punter BBS software, PC-PunterNet.

"This command actually has roots close to TPUG", says TNSS operator Roman Kowalczyk. "Back in the early 1980s, my roommate was a member, and I used to devour his copies of Creative Computing and TPUG Magazine as soon as he'd finished with them. I first heard of Dvorak from an article in The Torpet!"

Roman hopes that the command will catch on; he'd like to see the development of a more detailed on-line tutorial section where people may actually learn to type, online, in as few as 4 or 5 twenty-minute logins. To this end, liaison with third-party educational software developers has already begun.

• More Information And Contacts

Pretty well everything you need to know is in the "DV" file; if you still have questions, send a stamped self-addressed envelope to TNSS, Box 6238, Postal Station "A", Toronto, Ontario, Canada M5W 1P6. (Outside Canada, leave the stamps loose in the outer envelope.) Roman may also be reached on PunterNet by sending a message to "9/SYSOP". His CompuServe number is 71250,1423.

TNSS also sells a book about typing. "The Dvorak Keyboard" by Randy Cassingham tells the history of typing and the relationships between Dvorak and the English language, and about the science of ergonomics. The 94 page paperback is \$10.

The New Stelex's usage guide "Telecomputing For Everyone" explains in detail the Punter software used by both the TPUG and TNSS BBSs. Bound and indexed copies of TFE are available for \$20 plus shipping and handling (\$7 to Canadian addresses or \$10 to the USA). Please specify Cerlox^(tm) or 3 hole punched format.

Prelo (14202 Galy Street, Tustin, CA 92680) carries a full range of Dvorak products for C64/C128 and MS-DOS. Send a large SAE for details.

Keytime (3147 Fairview Ave East, Seattle, WA 98102) carries switchable QWERTY/Dvorak keyboards for PC or Mac users as well as other training products. Their slogan

is "Learn to type in one hour!"

[Another good source of Dvorak-related information is Freelance Communications, Box 1895, Upland, California 91785.

For more info on purchasing PC-PunterNet ask for Steve Punter at (416) 635-8434 weekdays. PCPN is shareware and thus may be tried with no obligation by ordering TPUG disks (M)C1 through (M)C8.

Program DVORAK.C on TPUG disk (C)Z4 alters the C64 keyboard to Dvorak for most programs. "Dvorak Keyboard For The Commodore 64" in the May 1986 Transactor (V6 #6) explained the implementation. For GEOS, use DVORAK on (G)U2.

Busy Bee includes Dvorak support in The Write Stuff, an excellent C64 and native C128 word processor.

Dvorak support is built-in on the Amiga via the "SetMap USA2" CLI command. With AmigaDOS 1.3, first copy file "Extras 1.3:Devs/KeyMaps/USA2" to "Devs/KeyMaps" on your WorkBench disk. - Ian]

Here are just some of the thousands of words which can be typed on the home row of the Dvorak keyboard layout:

that addition ahead astonish audit danish sonata stateide united states siesta outside outshone no institute indentation toad to see nonsense onions in unattested dots dashes thousands annotation instantaneous toe headstands tunisian tents eat shades assistant detonate hastiness destination hiatus season shoeshine this those thou unused site situate teeniest tahitian intentional

Words that can be typed on the home row of the QWERTY layout include:

add alas ask gag gaff gall lads slash

BASIC DVORAK KEYBOARD



Enter Commodore

I have been actively involved in the CBM 8-bit computing world since the appearance of the C-64, way back when. Missed the VIC-20, PET series and their peripherals almost completely (except for the Datasette, which followed me from the C-64 to the C-128, and then to the B-128). As I was an Advanced Digital Radio Amateur (read: HAM), the C-64 was the computer of choice in terms of hardware modifications and conversions, programs available and compatibility (problem avoidance), until the past few years. It seemed that most activity centered on that most popular machine. Thus, I was basically brought into computers by the C-64 and Datasette in order to a) learn BASIC and b) interface to radio transceivers. My allegiance to Commodore computers is quite profound, as a result. This, in turn led to a career decision to manage and troubleshoot large mainframe data centres and their support sub-systems!

Back to the world of radio, such software existed for the C-64 and later on for the C-128 so as to enable computerized logging (a legal requirement when transmitting: you must keep a log of all transmissions made), propagation prediction, sunrise / sunset lines, lists of amateurs and simple on-the-air notepads to keep a running documentary of comments. This blossomed into typing from the C-64 keyboard in order to receive / transmit Morse Code (a boon if you have visitors to your "shack" who do not know the code, and wish to engage in the conversation with the distant station), Radio Teletype (RTTY), RBBSS (Radio Bulletin Board Services), targeting shortwave listening areas over the world, and finally exotic digital methods of transmission and reception on short / longwave frequencies.

This latter I still continue with. I publish a monthly experimenters' newsletter on ULF ==> HF, entitled "THE NORTHERN OBSERVER" - 24 to 36 pages of articles, letters, circuits and activities PER MONTH for a core of about 100 contributing experimenters. Not an entertainment publication, rather, one of involvement!

Longwave, a loose term intended to encompass Ultra-Low Frequencies (.3 to 3 kHz), Very Low Frequencies (3 to 30 kHz), Low Frequencies (30 to 300 kHz), and a portion of Medium Frequencies (300 kHz to 3 MHz), is a kind of "final frontier" in the radio, communications, electronics and computer communications arenas. As these frequencies largely are concerned with ground propagation (transmission is primarily achieved via ground wave, its medium is through or slightly above the earth's surface), the effects are more pronounced as you delve lower in frequency: weather, power and distance become less important! There is a catch, however: power levels permitted are generally in the .01 to 1 Watt range, and gear is primarily built up from scratch or modified existing equipment (due to the low commercial appeal as compared to mainstream communications on HF, VHF and UHF.) You are very much left to your own devices, in every sense of that phrase. Sound kinda familiar to you fellow orphan-owners?

See the parallels between our interest in the "less-than-mainstream" B-128? Longwave communications protocols and non-ham amateur frequencies are a challenge, and generally self-taught or shared with small groups of avid, active people.

In both our Canada and the USA, unlicensed or relatively unrestricted experimentation has been enjoyed on longwave for some time (in the USA, under the FCC's Part 15 documentation since the '40s; in Canada, since I petitioned the Department of Communications and began experimenting in the early '80s). Using "exotic" coding methods such as CCW (coherent Morse Code, where both transmitter and distant receiver are calibrated to a precise time standard such as WWV/B, Fort Collins, then each to a precise computer designated receive frequency), BPSK (Binary Phase Shift Keying), FSK, PSK and even beacon mode of standard Morse (CW, constantly receiving a message or 2-8 letter / numeral call sign), a computer at the receiving site can be dedicated to the task of recovering from the NOISE (!) a weak, distant message! By filling in the gaps of received copy through repetitive attempts at the string, OR via transmission / reception methods intended to work "through the noise", or combining BOTH methods, one can achieve reception / following transmission of data much more easily and in one's absence with a computer. This despite the restrictions (tiny antennae and pipsqueak power), seemingly insurmountable to standard practices, these imposed on us by our respective communications commissions for non- or minimally-licensed use of these lower frequencies. Primarily, the 160 to 190 kHz areas are concentrated on. The idea of dedicating an MS-DOS machine to the task years ago was ridiculous to the experimenter, due to cost. The CBM C-64, VIC-20 and the B-128 / C-128 were ideal. With falling clone prices and Commodore's odd apathy towards their progeny, perhaps this has changed somewhat of late.

One word to the wise: failures of the computer itself. This was a lesson hard-learned. During a particularly frenzied, interesting developmental and learning stage on the B-128, I lost the system's expansion and co-processor busses simultaneously. Tony Goceliak advised me, about the same time that I came to the same decision independently, that with the very low cost of the B-128, why risk everything on just the one machine? Get a spare, if you don't already have one! Good gosh, with the few resellers' supplies, and the knowledge of occasional CBUG members leaving that venerable group or just plain selling off surplus machines, all "B"-users should have a spare "B"! The catastrophe occurred for me whilst learning the B-128's implementation of CPM-86 via the co-processor board, just prior to planned experimentation with that board and system. I was in receipt of much good info and advice from John Wright, as well as experimenting with a newly received 1 Meg memory expansion board from Gary Anderson. Imagine my disgust at my own shortsightedness. Much delay occurred due to my not having a spare at the time of failure. Lesson learned!

CP/M on the C-128, CP/M-86 and MS-DOS on the B-128, and such C-64/C-128 utilities as BIG BLUE READER, FORMAT EXECUTIVE, JUGGLER, DOS DISK, etc, allowing compatibility or text transfer to MS-DOS and back, have gained favour. These more "mainstream" and 16-bit modes are actually elongating the life of our B and C machines by making these computers more adaptable as computer conventions change. I feel maximizing the implementation of both CP/M (all flavours) and MS-DOS (hardware unspecific variety) will prolong our enjoyment and utilization of our 8-biters, perhaps indefinitely.

The "B" via co-processor boards can implement early version 1.25 of MS-DOS, and CP/M-86. Both systems require the presence of the 8088/V20 series of 16-bit microprocessors in the form of co-processor boards. The C-128 can run such 8-bit systems as CP/M 2.2/-80/3.0+ via the inboard Z-80 and 8080 emulation. However, I feel the B-128 is the machine to concentrate our efforts on. With emulation programs of the 8080 and Z-80 I have seen and John Wright has used, and help from such people as Dennis Jarvis, we should be able to have the B-128 run everything (almost?) that the C can. But not vice versa, due to the 8-bit nature of the C-128.

Again, from an experimenter's point of view, there is some hesitation at fooling with the innards of the MS-DOS machines, with the exception of pre-packaged "cards" and drives, hardly hacking at all when you think of it! With CP/M and native modes on the B-128 and C-128, plus the documentation that exists out there in such caches as back-issues of the CBUG ESCAPE (defunct), TWIN CITIES 128, THE TRANSACTOR (defunct), TORPET (defunct), TPUG, RUN and formal references, the hacker (whether a radio amateur, electronics, computer or communications buff) is much less inhibited to "get in there" and adapt the machine. This has been done on both hardware and software levels, and DOES continue.

A side issue: for those of us interested in the IEEE-488 bus, a C-128 and interface or the B-128/256 gives us, at perhaps lower speed, a link to much Hewlett-Packard electronics and lab test equipment based on that standard (also referred to as HPIB and GPIB equipment). The cost of adapting an IBM clone or Macintosh with a pre-packaged card/port is much more than our entire 8-bit B-128 machine/packages cost, and they are stand-alone computers!

"Safe" hardware mods include adding a drive, an IEEE interface to the "C" computers, a "FAST BUS" serial interface to the "B" computers, and external modems/interfaces to allow phone/radio communications. "Risky" mods include motherboard changes, power supply upgrades, ROM and RAM additions, the sky's the limit here 'cause there really is not that much to lose, as compared to serious modifications to a \$1K plus AT clone. If you already own an orphan, you are an independent breed to begin with. If unable to repair it, you know or suspect the way in which to get it repaired and parts sources, plus addresses or names of sources. Would many of us do this with an AT? Doubtful.

[Herb can be reached c/o TPUG Newsletter.]

Next issue: **Enter The C-128...**

At The Meetings Roman Kowalczuk

The February C64 chapter meeting was rather interesting, as Toronto importer Derek Dresser brought along all sorts of cutting edge hardware, software and information on the Turbo Master 4 mhz cpu replacement, Video Byte, Jiffy DOS, Aprosand, Explode cartridge, QBB, 2400 bps modem, and the GEOS Gateway, as well as plenty of CMD (hard drives, RAMDOS etc) information. He provided fascinating commentary on the Nintendo-type cartridges from the UK, on copying cassette tapes to disk, on the CD-ROM games interface, and even on using VCRs for backups and mass storage!

It was a good meeting, one of the most dramatic demonstrations of life in the old 64 we have seen in some time. Dresser's catalog is a must-see:

Dresser Electronics, 40 Panorama Ct Apt 100, Rexdale, ON M9V4M1 744-4084.

[The January C128 meeting saw and discussed Dresser's 128 products, many of them from CMD.]

The January Amiga meeting featured a Desktop Video tape, and AmigaVision and recoverable RAM disk demos.

If you are interested in a telecommunications chapter (probably meeting every few months), sessions for beginning users, or any other meetings, let the Board or Newsletter know.

Some recent meetings included door prizes for the lucky. Come on out, ask questions, learn, see new stuff, meet new friends, have fun! - Ian]

The Price Of Apples Ian McIntosh

Apple's new "aggressive" "most affordable ... ever" prices have been big news. \$1349 for a mono-only Classic? \$2799 for the cheapest "colour-capable" system? Another \$839 more for its monitor?

Those are Canadian list prices, but so is \$990 for an Amiga 500 with a colour monitor. Are Apple's extra 512K and high density disk drive really worth that much more?

Manuals For Sale 542-2181

- 2 Best of Transactor Volume 2 \$20
- 3 Commodore Business Computer Users Guide Series 8000 \$15
- 2 User Reference Manual for BASIC 4
- 3 User Manual for CBM 5 1/4" Dual Floppy Drives (for 2040 3040 4040 8050)
- 3 Disk System User Reference Guide (for 2031 4040 8050 8250 9060 9090) \$10
- 2 SuperPET System Overview
- 1 SuperPET Waterloo 6809 Assembler
- 1 SuperPET Waterloo Micro Pascal
- 1 SuperPET Waterloo Micro BASIC
- 1 SuperPET Waterloo Micro Fortran
- 2 SuperPET Waterloo Micro APL
- 2 KRAM Keyed Random Access Method manuals (for PET 2001/8001 with 2040/8050, or Apple II)

5334 Yonge Street, Box #116

Willowdale, Ontario M2N 6M2

(416) 253-9637

Canada	\$25.	<u>Membership Prices</u>	USA	us\$25.
		International		us\$45.
<u>Members</u>		<u>Disk Prices</u>		
5 1/4"	\$3.	5 1/4"	\$6.	
Amiga 3 1/2"	\$4.	Amiga 3 1/2"	\$8.	

Disk Number / Code	Disk Name / Description	Price
1	_____	_____
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3	_____	_____
4	_____	_____
5	_____	_____
6	_____	_____
7	_____	_____
8	_____	_____
9	_____	_____
10	_____	_____

Attach additional sheets if necessary.

Prices subject to change without notice.

Add Postage And Handling
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1 to 5 disks \$1.00
 over 5 disks \$2.00
 1 to 5 disks us\$2.00
 over 5 disks us\$3.00

Sub-Total
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DISK FORMAT 1541/1571/4040 PET 8050
 Amiga CP/M MS-DOS

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TPUG is not liable for any damages that may result either directly, or indirectly, from the use of the software on these disks. Most of these products are Public Domain or Shareware, and ownership cannot be assumed.

SIGNATURE _____

91/04/02 (If joining or renewing, please include a list of your equipment and special interests.)

TPUG Annual Business Meeting

TO THE MEMBERS:

Notice is hereby given that the Annual Business Meeting of the members of TPUG (Toronto Pet Users Group Inc.) will be held in Alderwood United Church, 44 Delma Drive, Etobicoke on May 9th, 1991 at 7:30 pm EST for the purpose of:

1. receiving the Report of the Directors including the financial statements for the year ending June 30, 1990.
2. election of directors.
3. transacting such business as may properly come before the meeting.

Elected directors' terms expire at the second Annual Business Meeting after their election. Appointed directors' terms expire at the next Annual Business Meeting. The following directors' terms **continue** until next year:

Ernie Chorny
John Easton
Dan Forget
Michelle Hyland
Paul Kreppenhofer
Walther Melamet-Vetter

The following have been **nominated** for election to the Board of Directors:

Art Evans
Al Farquharson
Herman Hartmann
Tim Hyland
Tiit Kodar
Roman Kowalczuk
Ian McIntosh
Doug Rodger

Others may be nominated at the meeting or by proxy. There are up to 10 vacancies. You may vote for as many candidates as there are vacancies.

The new executive will be chosen by the new Board, traditionally at a special Board Meeting immediately after the Annual Business Meeting.

You must have a current membership on the date of the meeting to vote at it or any adjournment thereof. You may be required to present a valid membership card or other proof of membership.

You are entitled to vote either in person or by proxy. If you are unable to attend in person, please sign, date, and return the instrument of proxy below (or a copy of it) to TPUG's mailing address at least one week before the meeting, or to the Secretary at the start of the meeting. You may optionally attach voting instructions to the proxy form.

By Order of the Board of Directors, TPUG

Walther Melamet-Vetter
March 28, 1991

PROXY

The undersigned, being a current member of TPUG (Toronto Pet Users Group Inc.), hereby appoints _____ as proxy to vote for the undersigned at the Annual Business Meeting on May 9th, 1991 and at any adjournments thereof.

Dated _____, 1991

Signed _____

Name (print) _____

Member Number _____

This instrument of proxy is only valid if it or a copy is signed and dated and either mailed to TPUG's business address and received at least one week before the meeting, or given to the Secretary at the start of the meeting.

Recovering Lost Files

John Easton

If you're like me online, you sometimes want to get caught up in a hurry, and so set about to 'capture' a whole mess of text at one time, for later printout and digestion.

A while ago, in an attempt to get caught up with the UNISON system (which DOES have a batch read capability), I logged on during the Sunday football game. Knowing there was a lot to download, I hooked my 8250 drive to the system, asked for a BATCH READ of everything in my 'in box' (what hasn't been read yet), set everything to SPOOL TO DISK, and went back to watching the football game. When I regained consciousness (as the story goes), you guessed it - a full disk, with the last 2000 block file marked with the dreaded *, meaning that it wasn't closed properly, and (as the instructions say), should I care to proceed with any further manipulation of that disk, I should VALIDATE it, effectively removing that massive file forever.

Since I hadn't even read it yet, and apparently had no way to read it (one can't normally access an improperly closed file), I got to digging thru old **Transactors** 'n such for some magic that might unlock the 'lost' file. Sure, I have Disk Doctor type programs that will do the job on normal 4040 type disks, but nowhere did I find reference to a job of this size. A call to Jim Butterfield Monday morning at least reassured me that all wasn't lost, and he proceeded to talk of BAMS 'n Tracks 'n Sectors - all very clear to Jim but still in the nebulous state for myself, especially with the lack of 8250 documentation at hand.

To make a long story short, I DID read up on all the BAMS 'n Tracks 'n Sectors, and still had to come up with a solution, when another call to Jim (on another matter) prompted him to mention

"By the way, you know you don't really have to go to all that trouble with file recovery. Commodore built in a command to do it for you."

As I picked up my chair, Jim went on to explain the magic 'M' command. Seems that if one opens a disk file, and instead of the

suffix 'R' for Read you use 'M', the disk will just go ahead and read, mindless of any errors it might encounter (maybe that's what M stands for - *Mindless?*). Thus cheered, I sat down and typed something like the following into a file recover program:

```
10 OPEN 2,8,2,"0:old,S,M"
20 OPEN 3,8,3,"1:new,S,W"
30 OPEN 4,4
40 :
50 :GET#2, AS :REM from
60 :PRINT#3, AS :REM to disk
70 :PRINT AS :REM to scrn
80 :PRINT#4, AS :REM to prtr
90 :
100 GET B$ : IF B$<>"A"
THEN 50
110 PRINT#3 : CLOSE 3
120 PRINT#4 : CLOSE 4
130 CLOSE 2 : END
```

A few words of explanation might be appropriate for line 100. As Jim pointed out, this type of read doesn't stop for errors, so one needs a way to abort the whole operation should garbage be encountered. Line 100 lets everything whirl away 'till you enter an 'A' - at which time all is closed down in an orderly fashion, and you now have what was readable from the old file transferred to a new file on a new disk which you can read in normal fashion.

For the curious, a job it works flawlessly, and thanks to the foresight to also include a printout, as I worked away on another machine, just listening to the printer allowed me to hear the end of the file. When it finally quit, it ran into a 'closed loop' and reprinted the same block of text 'till my ear picked up the repeated rhythm, and the abort option came to the rescue. Copy time for around 1900 blocks was about 3 hours, which isn't far from what it would have taken to print the pound or so of paper that resulted anyway. But let me tell you, we sure won't need toilet paper in the bathroom for a while!

- your 'well read' John

Wide-open spaces. Vast resources.



The on-line world is full of wide-open spaces and can be difficult to navigate at the best of times. Let alone when your favourite system is down. The New Stelex Sector BBS, Node 9 on PunterNet, has been up since 1984. TNSS is structurally identical to most Punter bulletin boards, is fairly consistent, and offers users many unique features:

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The large manual, "Telecomputing For Everyone" explains TNSS, the Punter software (both BBS64 and PCPN), Bell Canada, CompuServe and the national systems. Beta-test copies of **TFE** for end-users are priced at \$20 plus shipping. Learn to navigate those wide-open spaces!

TNSS is especially interested in setting up turnkey bulletin boards for small and medium-sized businesses, corporate departments, educational institutions etc. If you are interested and would like to arrange a tour of the system, send a note to 9/SYSOP, or write to TNSS at Box 6238 Toronto M5W 1P6.

Randy Cassingham's The Dvorak Keyboard is \$10. postpaid.

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As seen at World of Commodore/Amiga

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GEOS Library Update

(G)U3 - Utility

Combiner - combines multiple geoWRITE documents
Big Clipper - makes big clippings from geoPAINT pictures
ScraPeek 3.4 - views pictures on C64 or 40 / 80 col C128, supports Photo Album 2.1
getDirectory - puts directory into geoWRITE text scrap
Retriever 2.0 - gets photo scraps from geoWRITE, geoFILE and geoPUBLISH documents
Grabber Upgrade - upgrades version 1.0 to 1.1
GEOS Icons - geoPAINT file of icons
Font Pk+ & gPub - gives id number and compatibility with geoPublish
Identifont - shows font's serial number
FontSwap - changes fonts in C64 geoWRITE 2.0
MegaFontFix - bug fixes
Convert 3.1 - converts GEOS file to / from Commodore sequential file
Selector 64 - changes printer driver
LaserJet SER - HP LaserJet serial

interface printer driver
LaserJet PAR - HP LaserJet parallel interface printer driver
NX-1000 LM 2 - high density Star NX-1000 printer driver
NX10 All Styles - prints geoWRITE 2.0 / 2.1 documents in Expanded / Condensed / Elite
Labeler - prints labels with graphics from geoWRITE documents
GeoList 2.0 - lists directory to printer or disk file
QuikTop 2.3 - alternate DeskTop
WormDesk - alternate DeskTop
LoaderMaker - makes loader program for machine language from GEOS assembler
FFTB - formats disk (GEOS 1.3 only)
GEOFormat 1.3 - formats GEOS disk
Unlock - makes all files on disk writable

(G)F1 - Fonts

Identifont - shows font's serial #
22 Fonts - Babylon, Banner, Broadway, C= Characters, Corben, CRT, Dingbats, Eder, Esperanto,

librarian - Tim Hyland

Fill 48 (A-Z), LCD 21/23, Oxford, Petit, Phoebus, Tarzan, Trek (A-Z + 0-9), Wacky, Zapf 10/14;
LaserWriter Fonts - Barrows, Cal, Greek, Roma

(G)F2 - Fonts

30 Fonts - 16 Commodore, 17cpi, 36point, Alexia, Antique, Balloon, Caps, Cursive, English, Exotic, Fat, Gothic, Graphic, Ingot, Koala, Medallion, Monogram, Oriental, Paintbrush, Peppermint, Publisher, Ribbon, ScrambleFontV1.5, Shades, Spraypaint, Stars, Stencil, The Vatican, Trilline 25, Xili

(G)A1 - Assembler

geoCOPE - machine language assembler and source editor, with **TransText**, **hexCalc**, and source files for AutoSave, Click On Me, EditFun, Find, LADS2COPE, Load, MC51, PageMove, PetASCII_Form, Print, Routines, SampleInit, SampleMain, Save, System, Utility, ZeroPage

C64 Library Update

(C)ABI - Nov 90

CAR COST/MILE - calculates costs including purchase, finance charges, oil, gas, maintenance ...
DEBLITZER - BLITZ decompiler
SUPERMON+64 1.2 - machine language debugger / assembler
CROSS-REF64 1.1 - cross-references BASIC variables etc
WORLD CONQUEST - simplified Risk-like game
GOLF - 1-4 player golf game
SID TUNER V2.1+ - plays music with 16 editable parameters, with CosmicChimes, ChineDance, Flute Dance, Minuet & Haydn XVI 3 (can use 2nd SID for 6 voices)
ROSTER.PRG - club roster database
GRAPH MAKER - draws bar charts

(C)ABJ - Dec 90

MENU* - "The monthly disks will never be the same after this" (use space bar to select programs)

MS-DOS Library Update

(M)C1 - (M)C8 - PC-Punternet BBS and super terminal program
(M)C9 - Procomm terminal program

FLOW/64 V3.0 - prints BASIC program flowchart
POKES/SYS LIST - useful POKES and SYSs (sequential text)
ADDRESS LIST - address & phone database, with music!
SALES EXP1.1 - monthly & annual expenses database
RAD LABELS - prints 5 1/4" & 3 1/2" disk labels
STAR TREK VI.D - David Neale's excellent space war game
BARTENDER - 91 recipes + yours
LIFESPANS - estimates your lifespan
GROWTH RATE - calculates average growth, draws 10 period chart, estimates to 20 periods
ROCKSCISSORS - rock / scissors / paper / rock game
BASIC QUIZ - programming quiz

(C)ABK - Jan 91

MENU* - new TPUg musical menu
CSLIDE10 - displays normal & compressed Koala & Doodle (*, JJ*, DD*, GG*) pictures, and

librarian - Doug Rodger

compresses/expands pictures
DIGITL PIX - slideshow with FACE ON MARS, ENTERPRISE, UHURA, ELVIRA & others
TYPING PRACTICE - helps learn touch typing
3-D MENU MAKER - creates disk menu programs
DISK SPINNER - spins 1541 for head cleaning or testing
NORAD - hacker game
DISK TRICKS - 1541 utilities
TAPE JACKET LIST - prints audio cassette label on Okimate
EPSON LABELS - prints 34 disk filenames on 1" x 3" labels
HANGMAN FOR 2 - hangman game
CATACOMBS - role-playing adventure graphics maze game

(C)ABL - Feb 91

M1 V2.0 - BBS system, can run on single 1541. With online games Othello, quiz, hangman, chase. Other games & networking are available

Jim Butterfield's tax program:
(C)Tax90 - C64/C128/PET/
CBM/B128/Plus4 etc \$3
(A)Tax90 - Amiga \$5
Not available for MSDOS or CP/M

Amiga Library Update

librarians - Paul Kreppenhofer & George Skinner

(A)TBA - June 89

Quick / Flash - speeds booting 15% to 70%
FindIt - finds files matching a pattern (CLI)
MasterCrunch - transparently compresses programs
CreditBook - records credit card data
VideoPoker - casino Poker machine game
Zerg 1.0 - graphics adventure game
Galactic Worm 1.6 - game - eat fruit and grow without crossing yourself
Sphere - draws colour-cycled circles interactively (with assembler source)
Tank - tank drawing
Earth - digitized photo from space
Drawers - 12 drawer icons

(A)TBB - Oct 89

Cruncher - transparently compress executable program (CLI)
DoTil 2.0 - dual directory copy/move/ rename/delete/view files, run CLI commands
Four - Connect Four-like game, somewhat like 8x8 TicTacToe
Garfield - his picture with Odie
Cubola2 - stacked blocks picture
IconMeister 1.4 - edits fancy icons
CLI_Help - shows CLI command info
Scenery - draws fractal landscapes, saves in IFF format
SetKey 2.0 - reconfigures keyboard (with **ZorkKeys** for adventure games)
Tunnel - hypnotic animation
Push - block elimination game (needs joystick)
ShowWiz 1.0 - shows pictures and text, many options & 23 wipes (with **Bilbo** and **T-Rex** pictures)
Scat! - WorkBench hack
Accordian 1.0 - solitaire card game

(A)TBC - Aug 89

FastDisk II - reorganizes disk for speed (needs ARP.library 34+, needs 2 drives)
Quik_View05 - fancy but tiny (3 KB) file viewer (CLI) (with assembler source)
ClockDJ_412 - clock / mouse speed /

screen blanking / window utility
SID_106 - fancy dual directory copy/move/rename/delete/view/edit/execute/print/change info/archive/dearchive files & directories & disks & ARC/LHARC/PAK/WARP/ZOO/etc archives, selecting by clicking/date/filename pattern
Dyna_Show - shows Digiview Dynamic HiRes and HAM pictures
Align - checks drive alignment (CLI)
Feeding Frenzy - arcade game - avoid being shark bait (CLI)
Screen Watch - CloseScreen fix (CLI patch)
WTFPatch - WindowToFront fix (CLI patch)

(A)TBG - Nov 90

AprilWeather.anim - weather satellite photo animation (needs 1 MB)
Pop_Words - flashes words with voice (appears to need to be copied to disk named "here:")
Lotto - picks random Lotto 649 numbers (CLI only)
Nakamoto - Jumpman-like game

(A)TBH - Dec 90

The Big Sneeze - animation
Feeding Frenzy - arcade game - avoid becoming shark bait (CLI)
Space War - space battle game (two player option uses modems)
GeoTime - world map showing time zones and time in each

(A)TBI - Jan 91

Aquarium 1.12 - Fred Fish disk database up to FF 400
FixDisk 1.2 - recovers damaged disk

(A)TBJ - Feb 91

Intoxicated - mouse pointer hack
ScreenX 3.0 - manipulates windows
Image-Ed - edits icon images
Hex - edits executable program files
Terminal - animation
Batman - animation

TPUG always has the complete **Fred Fish AmigaLibDisk** (now past 450 and growing) and **Amicus Disk** (up to 26) collections.

(A)TBK - Mar 91

Tax90 - Jim Butterfield's 1990 Ontario income tax program
Printer Drivers - Seikosha SP1000i, Seikosha SL80ai
Desert Storm - stealth fighter game
SysInfo - reports ADOS version, hardware configuration etc
Cache-Disk - caches diskette data
Handshake 2.20c - terminal program - see (A)C1 below
DFC5 - formats & copies disks, allowing multi-tasking
AIBB 2.0 - tests CPU speed using WritePixel, Sieve, Sort, Savage, Dhrystone & Matrix

(A)TBL - Apr 91

At The Movies - animation of Amy the squirrel and her boyfriend watching a jungle movie (PG13) (needs >1 MB)
MissileCmd - Missile Command-like game
LP - basic 2 button light pen driver (no documentation, needs light pen)

(A)C1 - Communications 90

AVCTERM 1.00 - terminal program with monochrome & ANSI, with X-modem (checksum+CRC), WX-modem & Punter C1 file transfers
Handshake 2.10a - terminal program with monochrome & ANSI, and thorough VT52/VT100/VT102/VT220 emulation for use with mainframes, with X-modem (checksum+CRC), Y-modem (single file+batch) & Kermit file transfers
ARC - archives & compresses files (CLI)
LHARC 1.21 - archives & compresses files (CLI)
PKAZIP 1.01 - archives & compresses files
ZOO 2.01 - archives & compresses files (CLI)
DMS (Disk Masher) 1.01 - archives, compresses, virus checks & encrypts diskettes
VirusX 4.00 - checks for viruses

C128 Library Update

(Y)SAC - Expo 88

BEARINGS 128 - calculates distance
TERRABASE 128 - database

librarian - James Kokkinen

SEQ READ(128/80) - list SEQ files (80 col)
DOCU-DISK - catalog 1541/71 disks
MULTITERM128 3.6 - versatile terminal program

128 INVADERS - Space Invaders

The disk listed last issue as (Y)SAC - WOC 88 was actually (Y)SAD - WOC 88. This is the real (Y)SAC.

(Y)ABC - Dec 88

CAT.128 - good disk cataloguer, with TPUg's C128 catalogue
SHELLGAME128 - game (40 col)
LOBSTER - terminal program
TELETERM 128 - terminal program

(Y)ABI - Sep 89

LYNX128 - file linker, compatible with most drives
SPACEDUST - arcade game (40 col) (needs joysticks)
A-DREAM - about C128 state (text)

CROSS-REF128 - Jim Butterfield's revised cross-referencer
OSTRICH - draws pictures with mouse / joystick / numeric keypad
ASTRA - arcade game (80 col) (1 or 2)
LIBRARY V9.0 - use with LYNX
VID LOG V1.2 - videotape library database

C128 Library Update

(Y)ABJ - Nov 90

CSDOS - alternate operating system, with many commands and utilities

(Y)ABK - Dec 90

DESTERM 2.00 - excellent terminal program (80 col)

(Y)ABL - Jan 91

These programs need 64 KB Video RAM (C128D or upgraded C128)
GDS - GIF Display System shows GIF (MSDOS Graphics Interchange Format) pics (80 col) (with 2 pictures)
IVS - Interlace Viewing System

shows high resolution IPAINt pics (80 col) (with 3 pictures)
PLAY128/V1.15 - shows simultaneous dual 40 & 80 col animations (with 1 dual animation)

(Y)ABM - Feb 91

TEXTREAD - shows / prints sequential file (80 col)
MAH-JONGG V2.0 - ancient oriental logic game (40 col)
BLOCK DROP - Tetris-like game (80 col)
PARTITION 1571 - splits disk between 128 and CP/M formats
RDCPMREU.BAS - copies CP/M REU ("M:") to CBM disk (80 col)
M-DISK128 - lists CP/M REU ("M:") directory from 128 mode (80 col)

librarian - John Milligan

64FROM128 - LOADs and RUNs C64 program from 128 mode
TOGGLE - switches 64 / 128 modes with program in memory (40 col)
KEYPAD 128.C - activates numeric keypad in 64 mode
1581MANIPULATOR2 - 1581 utility
AUTOBOOT - writes boot sector (80 col)
GURU80 - sector editor, disassembly & BASIC options (80 col)
METEOR - disassembles programs
BASIC71 - adds commands to BASIC
QS.ML - sorts BASIC array quickly (with assembler source)
TWIN-80 - switches between two 80 column screens (with asm source)

Next Issue:

(Y)ABI, (Y)SAE to (Y)SAG . . .

CP/M Library Update

Most CP/M programs are in LBR library files - use QL40 on (Z)ABQ.

(Z)ACT - Nov 89 #2

MYALIAS - system housekeeping aliases - CLEANDIR, DOIT, JANITOR, LOAD, MLOAD, MYALIAS, PG, TYPE), use Z3Plus Salias to view
QTPATCH - patches for Quick Term for SB180, Xerox, Morrow, Kaypro, ALB, ALPSA, HP 125, Joyce, Otron, PCPI, QX10, TS802, Zorba (not C=128)
ROGUE - AD&D game ported from UNIX (character graphics)
VMNUFUN - Menu for VMENU / Z3: NOTE VMENU on an upcoming disk

REDELMT, REFRACT, Riset, SUN, SUNEP, SUNRS, SUNRS (BASIC sources)
DIFSES2 - UNIX diff file comparison
JETPRIME - Byte prime number speed test (with assembler source)
LZED - LZED Z3 editor info (text)
PC-ZUPD3 - PC-Z update info (Z80 upgrade compatible with PC) (text)
VREN - Video REName, for both CP/M & Z3Plus
ZERR12 - ZERRLSH for ZERR

(Z)ACY - Feb 90

GST02 - Graphic Script Tools (needs Z3TCAPX extended TCAP) (Z3 only) (with source)
Z3TCAPX - Z3 enhancement - C-128 extended TCAP
SCAN21 - Scan file, handles large files, with search, jump to start or end, and help but not paging like QL (CP/M & Z3)
VDCDEMO - C-128 Video Display Controller for hi-res graphics (with C source for demo)

(Z)ADJ - WOCA 90

This is a double sided 1541-compatible floppy disk, one side each for CP/M and Z3Plus.

librarian - Ray Whidden

CP/M Side
GENEALGY - genealogy, TMS (Tafel Matching System BBS network), PAF (Latter Day Saints Personal Ancestral File), Kintracers (TMS BBS in Toronto) info (text)
TTGEN10C - Tiny Tafel Generator for TMS
LIFE-PAS - Conway's Life game, graphic & text versions (with Turbo Pascal source)
Z3Plus Side (most need Z3Plus)
WHY - why & where to buy Z3Plus
ZEN&CPM - CP/M user's musings
@10 - positions cursor on screen
D17 - lists directory with options
NT46 - Note Taker with time&date
ZFINDU - finds string in compressed files
ZGREP11 - finds patterns in files
ZWC - counts words in file

(Z)ADK - Dec 90

(This disk needs Z3Plus)
VCOMP21 - Video Compare text files
ZDB09 - Z database prints name/address/phone labels, fast indexing (with assembler source)
ZP10 - ZPATCH ((Z)ACP) companion patches disk/file/RAM, with HP RPN hex/dec/bin calculator

Next Issue:

(Z)ACZ to (Z)ADI . . .

Since children will be confronted by computers throughout their school years and probably later at work, when should they move beyond the peek and peck level and learn keyboarding skills?

When I first suggested that keyboarding should be initiated in grade 3, the reaction was that I was perhaps hallucinating. There were comments such as: *Children at that age are not ready. They lack essential coordination. Their little pinkies are too small. It will impair their enjoyment of school.*

My response that many grade three children were taking piano lessons on regular keyboards, and that most kids I had seen playing arcade-type computer games showed levels of coordination that make most adults appear spastic had no effect.

However, one grade 3 teacher, who was comfortable with computers, supported me and during the second term we cycled most of his pupils through a typing program that I had written. Our main problem was that only two C64s were available to us. With 28 pupils and 20 minute exercises, it was impossible to schedule the pupils for daily drill. Despite this, most reached a point where they could type with a covered keyboard, if only at 10 to 15 words per minute.

The scheduling problem resulted from an earlier

decision to scrap the computer lab in the library and assign a couple of computers to each classroom. This resulted in a large number of computers gathering dust in the corners of most classrooms. More about this later.

Earlier, I had watched pupils using TYPING TUTOR III, WIZTYPE, and Happy Tutor. These are good programs, but for young beginners they seem to punish pupils for any errors. I then developed a 29 module typing program which allowed checking and correcting blocks of work before evaluation. A simple thing, but it tends to reduce any sense of punishment until sufficient confidence is gained to stick with the more demanding commercial programs.

Pupil progress records are very important and each student should keep a record of the time taken to complete each module. The record of progress and performance will provide a basis for positive reinforcement by the teacher. At the start, pupils require close monitoring to guide them toward correct fingering and to block any bad habits from developing.

This beginner's typing program is available from TPUG as educational disk (C)ED-20.

(C)ED-7

Spelling

- Vowels at begin
- Vowels in mid
- Vowels at end
- Double vowels
- Consonant blends
- Antonyms 1
- Digraph 1
- Hangman 1
- Hangman 2
- Hangman 3
- Define match 1
- Antonyms 2
- Key words 1
- Jim's jotto 1

(C)ED-8

Reading

- The game.1
- Chocolate goo.2
- Monster wave.2
- Firefight.3
- Invasion.3
- The hunter.1

ED-1 to ED-6 in the last newsletter should have been listed as (C)ED-1 to (C)ED-6.

(C)ED-9

Math drills

- Exponents
- Exponent multipl
- Equation manipol
- Equation exercis
- Equation X-Y
- Equations A
- Factor drill
- Factor trin A
- Factor trin B
- Factor wholes
- Factors
- Power factor
- Collect terms 1
- Collect terms 2
- Teacher info

(C)ED-10

Math games & drills

- Add
- Multiply
- Subtract-Pos
- Subtract-Neg
- Divide
- Police subtract
- Place value 3
- Cash register
- Lemonade
- Subtraction 1
- Division 1
- The great divide
- Place values
- Guess it



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TPUG Discounts

Several stores give discounts on some items (typically software, books, magazines, blank disks, etc) to TPUG members:

**Electronics 2001
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Ask them for details, and save!

Want Ads

Office equipment for sale - IBM Selectric typewriter, portable typewriter in case, acoustic printer cover, Mannesman Tally printer (as is), large fan. Call TPUG at 253-9637, Ian at 757-4628, or Al at (519) 442-7000.

CBM 8296 and 8032 (downgraded SuperPET) for sale. Extras, dust covers. Call Ian 757-4628.

2 SFD 1001 drives, Buscard II, IEEE cable, interface, 2 power cords, ref manual for sale. Prefer package deal or 2 way split. Gus 656-9696.

TPUG needs volunteers for computer show booths. Fun and free admission. Call 757-8399.

If you need instruction on using TPUG's BBS or other Punter BBSs, TNSS offers inexpensive hands-on training near Yonge and Bloor. Turnkey Punter BBS installation available. Write to TNSS, Box 6238, Toronto, Ontario M5W 1P6 or call (416) 462-3168.

Wanted - Responsible volunteer (ie, free) bookkeeper. Call TPUG.

Office furniture for sale - 4 drawer letter filing cabinet, 15" deep filing cabinet, twin pedestal walnut top desk, four 18"x30" typing tables (two with wheels, one with drawers), printer table, shelves 30" wide x 16" deep x 5" high with shelf every 6". Must pick up in Paris Ont. Call TPUG 253-9637, Ian 757-4628, or Al (519) 442-7000.

Want COMAL cartridge for C64. Call 757-8399.

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Norland C64 Software From TPUG

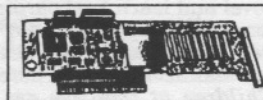
Use the order form on page 7.

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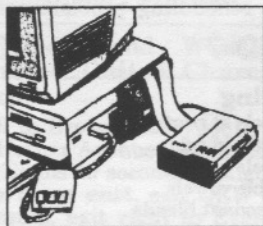
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