The Prez Sez -

Some will receive this Newsletter hard on the heels of the previous one. All of the labour until recently has been done by TPUG members: folding, stuffing, labelling, etc. Believe it, no one can demand that a volunteer work, much less reach certain deadlines. Many hours doing these mindless physical things as listed, plus many hours of meetings and analysis will improve the Club. In previous times the Club had employees to help out. Now we cannot afford this kind of luxury. I demand more pay - everyone willingly doubles it. Still I receive the same as others - nothing. My background begins in 1979 with TPUG.

Do you wish to complain? Remember we are a volunteer group. A business person wrote me a letter in which he threatens to tell the magazines we no longer function. Due to several goof ups, he had to wait a long time for some action on a disk order. I have personally worked for hours on this type of work. Does a volunteer work more heartily after this? Not necessarily! Please be patient. Those in the Toronto region are urged to offer help.

Directors, meeting co-ordinators, librarians, - volunteers all. Send us programs which you write, ideas and letters. For this we thank you. If you have any positive suggestions for improvement, write me!

Our Directors are trying. Sometimes we succeed.

Y'r Editor speaks - or what they didn't tell me when I offered to help out!

Hey folks, just because I had access to 'publishing' equipment at work, and just because I mentioned that I would put together all those interesting articles 'n stuff that you folks would write, didn't mean that I would also write 'em! The secret of continuing life for any organization is communication, and to this end, I volunteered. However, just because the means to communicate is present, doesn't guarantee success - the real secret to organizational life is participation - and that means you!!

Our most successful meetings have always been those in which the members in general became involved - and the same holds true for a newsletter. Just as meetings where the members merely want to be entertained soon drain the energy of the organizers, so too with a newsletter.

You may have noticed that publication dates (or mailing dates, whichever came last) have managed to slowly slip behind schedule, - always a reason, like the next article is 'in the mail', or I've been sick, or

Y'r Editor's comments

we couldn't find volunteers to stuff envelopes (ever folded and stuffed 3 to 4,000 newsletters in one sitting?) .. but whatever the reason, this newsletter doesn't get out 'till the pages are full and the envelopes are stuffed!

My workload and commitments may soon no longer permit me to carry the 'publishing' task as a one-person volunteer force. I'll still attempt to get stuff together on some semblance of a bi-monthly schedule, but the input is up to you. Traditionally, TPUG prefers to publish original articles so that cuts down on the articles we might otherwise 'swipe' from the many exchange newsletters that flow thru the office (don't stop! - I greatly appreciate the work that so many others have gone through, and will 'swipe' topically applicable articles, for instance the comments on involvement this issue). However, be warned - participation and involvement is the life blood of any organization - un-participate and non-involve at your peril!

John

Membership Information

Regular (attends meetings)	.....$35
Student (as above)	.....$25
Associate (Canada)	.....$25
Associate (U.S.)	..... $25 US
Associate (overseas air)	..... $45 US

Board of Directors 1989

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Ken Poulton	vice president
John Easton	secretary
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Ian McIntosh	publicity
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Telecommunications Contacts

Quantumlink	Tpug news
	TPUGMAIL
	TPUGOFFICE
TPUG BBS	OFFICE

TPUG Newsletter
John Easton .... (416) 251-1511

TPUG Office
Sylvia Gallus .... (416) 733-2933

We Are TPUG ...   ... Our Readers Write

Dear Mr. Farquharson:

Will wonders never end. As Mark Twain once said, "the rumors of my death are greatly exaggerated .." When I received your letter the other day, I thought I had dropped through a time warp or something. As I had let my membership lapse when the troubles began, and as soon as I heard all the (now false) wails of TPUG's death, I thought that was it. The greatest of the great in the world of things Commodore had bit the dust. But like the Phoenix, a new and stronger TPUG has arisen from the ashes of the old! Ring the bells! Send out tidings to all the lands!

I have been very intimate with Commodore computers since that day long ago in 1976 when I helped to begin the Saratoga Microcomputer Club, of which I was a member in good standing until the club was closed down in 1980. Many of us took many a long gaze northward to Toronto and TPUG wishing that we could somehow become a part of you. So back in 1985 when I saw you were setting up an 'Associate Member' category of membership I didn't have to think too hard or long as to what I should do. I sent in my $25.00 and joined TPUG.

Loved your mag, I still have a few copies filed away. The disk library that you have collected over the years was another selling point. All was going great until "the troubles". At first I didn't mind the very reduced mag to newsletter insert in the Transactor. But when the jump was made to INFO, and then to none at all, that was the last straw. There was nothing left for my $25.00, so I left.

While I'm again joining TPUG, I hope that you and the new Board of Directors will keep this thought in mind. We the Associate Members are at the bottom of the TPUG totem pole. Since the majority of us never have the chance to drop into Toronto to say Hi, we depend on you to keep us informed as to what you are thinking and doing, as we cannot be reached by word of mouth. I felt that the old Executive Committee forgot about us as soon as it could. Since we were not 'real members'. TPUG to many of us down south here represents the best of the best of Commodore User Groups. Some of the most respected Commodore experts were/are members. In 1987 I was able to meet Jim Butterfield for the first time, but I have been following his comments for years. In a way, TPUG owes us Commodore Users it's vast wealth of information - so to this end, welcome back!

As a final note I would like to add. I have been wanting for some time for someone to publish a newsletter or magazine that provides some project coverage for Commodore computers. By this I mean small projects to build add-on hardware for a 64/128. Much like Steve Ciarcia does in BYTE for the 80xx club. I know that Transactor has from time to time run articles of this type, but no one has done it on a month by month issue like those of the early days (76-80) of 65xx users. Somewhere we got lost in the game maze!

There is a core group of us who need a higher level of support beyond that which has showed up in the current crop of Commodore mags the past few years. I hope the TPUG will be able to fill this void with some good ol' fashioned techie info. I think I have enough versions of "Space Invaders".

Again, Hail Hail TPUG - Live long and prosper!

Larry Hollis, Ridgecrest, CA

*

Dear Mr. Easton:

Nice to hear that we're still in business despite tough times and financial stress. ....

The disk catalog is an important part of the newsletter and eliminating it would have a detrimental effect on the organization. Good (and not so good) programs are often useful or at least entertaining and the effort that went into building them is always appreciated around here.

It would be convenient if the library lists appeared on individual disks for specific machines (e.g. PET, VIC, 128, MS/DOS, etc.) and could be printed out using the wordprocessor included on each disk.

(Ed note - that has been addressed to some extent already - see the latest Show Disks - the backside contains just such a catalog listing. The PET library supplement is also available on disk and in print. Librarians are working on the rest.)

.... keep up the good work.

Ron Rudiak, Steinbach, Manitoba.

Wroxeter, Ontario
March 22, 1989
Dear John:

I hope you don't mind if I call you John, everyone calls me Hank, and the odd time I hear 'Mr. Scott', I almost look around to see who they mean.

You may remember that I called you, in distress, the last week of February when my PaperClip ROM chip had blown up. When I found to my sorrow that Batteries Included was no longer in business I called Jim Butterfield who had been my idol for years and he suggested that I call on you for help. You, John, saved the day.

If you remember, you steered me to COMPUTER ODYSSEY and they had exactly what I needed. I asked them to send me the ROM chip and, sort of idly, asked them what else they had for the PET. A very nice young man, Eric, said they had quite a bit of PET stuff so I asked if they ever got in a used 4040 disk drive. I had always wanted one John, but when they were $1500.00 I had settled for a 2031 for half the price. On and off since 1982 I had looked for a 4040 with no success, so I was elated when Eric said they had a very nice one for $400.00. Needless to say I bought it, I have it now, and am tickled with it.

You may be mildly interested in something else that happened when I was looking for that ROM chip. I had called every Commodore dealer I could find before I called Jim. One call got me to an answering machine, and about two days later they called back. They had had a break-in and suspended operations for a couple of days to take inventory. He was sorry that he didn't have what I wanted, and pointed out that the PET was actually obsolete. While he was talking to me he was reading a stock-list, and he said, "the only thing we have from that era is one brand new PET, still in the packing case in the back of the warehouse. I said "Being obsolete, like you say, it's probably not very expensive". He said "The first $100.00 can take it away. Naturally, it was an offer I couldn't refuse, so I drove to Guelph the next morning and brought it home.

So John, as you see, Lady Luck hadn't deserted me after all, and the whole caper turned out just fine.

I really appreciated your help and wise counsel in this matter, and if I can ever return the favor I will be happy to do so.

Very sincerely
Hank Scott

Thanks for the note Hank, just renew your TPUG membership, the rest is 'all part of the service'!

Since Commodore insists on referring queries on 'obsolete' (read PET) equipment to TPUG, and the office passes them on to y'r editor ('cause he probably is the only remaining board member who still uses the PET and SuperPet on a daily basis), why don't I just start a topic here to keep up with the traffic.

Here is a list of current sources of PET equipment, peripherals, support and software as I've run across them - if you know of others, let us know!

In addition to TPUG, don't overlook the admirable work of Norman Deltzke in Chicago with CBUG (Chicago B Users Group). This group was originally formed to merely service the orphan B series PET. A great machine in its own right, and even more so if you care to follow the amazing developments that CBUG hackers have contributed to users of the B. Would you believe mega memory boards, complete official CBM service manuals, MS/DOS and CP/M applications ... and the list goes on ... Don't send money Norm, just renew your TPUG membership!!

   CBUG c/o Norm Deltzke

4102 N. Odell, Norridge, IL, 60364 (312) 456-8720

Subscriptions to The CBUG Escape - $20.00/year (4 issues)

Within the pages of their massive newsletter (newsBOOK?) CBUG Escape, one will find advertisements for peripherals and software that should satisfy the most avid collector. For a start, if it is PET, SuperPet or B-128 equipment, software or peripherals you're looking for, we'd suggest you might like to contact:

Northwest Music Center Inc.

539 N. Wolf Road

Wheeling, IL, 60090 (312) 520-2540

☞ *See NEWS BREAKS for special TPUG Member's offer*

Back to this side of the border, for the equivalent of Northwest Music, you might like to contact :

Computer Odyssey

1186 Stone Church Rd. E.

Hamilton, Ontario

L8W 2C7

(416) 574-1404

They still have a supply of new SFD 1001 1-meg disk drives (8250 compatible) for $260.00, IEEE/IEEE cables ($50.00). An ever changing supply of used PETs and disk drives assures at least the possibility of parts. The good news is that they apparently bought the rights to reproduce the Batteries Included workhorses **PaperClip** and the **Consultant** as they apply to the PET. Chips alone are $25.00, while the whole package (chip, disk and manual) is $50.00.

If it is the **WordPro** line you prefer, Stew Martin of Pro-Line still supplies mail-order requests for WordPro 4+ and 5+ ($99.00). Matter of fact, if your dealer no longer stocks the 64 or 128 versions of your favourite Pro-Line product, Stew still has them available, including WordPro 64 or WordPro 128 ($39.95), C-Power, Buddy, etc.

Pro-Line Software

915 Ribston Rd.

Mississauga, Ontario

L4Y 1B4

(416) 276-6811 (evenings)

And we just received notice of yet another source of hard-to-get Commodore stuff. A quick phone call has confirmed that **Progeni Inc.**

995 Decarie

St. Laurent, PQ

H4L 3M7

phone - (514) 745-3123

indeed appears to have cornered the Quebec supply of old PET equipment and hard to find peripherals for Commodore in general (including the **1750 REU** at $195.00, which I promptly ordered!), IEEE cables, interfaces such as G-Link, BusCards, BI-80 cards, and even hard to find chips. VIC users may take hope in the fact that Progeni have expansion memory and cartridges plus a fine selection of software.

Give Danny Allenson a call or a note with your current needs and he will confirm what he can find. As an idea of cost, used PETs are approximately $100.00, 4040 dual disk drives about $200.00. I forgot to ask the cost of the 9060 and 9090 hard drives, but they seem to be available.

Ron Snyder, president of the Colorado Commodore Computer Club writes that he and his son seem to have become collectors of old PET equipment. He affirms that at the moment he can supply software, computers (2001k, 2001b, 2001n, PET-64), printers (8023p & 6400), disk drives (mostly 8250), cables, manuals, and misc. parts (belts, drive motors, etc. for Micropolis 8050 drives). Contact Ron at 1192 S. Nome Street, Aurora, CO, 80012.

Not PET related, but nonetheless noteworthy as a reference, we would highly recommend to AMIGA users the now out-of-production magazine - **The AMIGAN Apprentice & Journeyman**. Edited by Dick Barnes (ahah! - now you old timers know why this piece is in here, Dick was the prime energy behind the SuperPet Gazette), this outstanding journal is just jammed with expert know-how and observations by experts in the AMIGA field. Unfortunately Dick has been forced to curtail publication on doctor's orders, but back issues (and disks) are available. There are three volumes, each holding six issues (fully indexed in the sixth issue of each volume). Prices - For three issues or less, $4.50 each; for four to eleven issues, $4.25 each; for 12 issues or more, $4.00 each. If overseas, please add $1.75 per issue for air mail postage. Mailing may be delayed slightly while issues are reprinted. Order from:

The Amigans

P.O.Box 411

Hatteras, NC

27943

phone (919) 986-2434 after 3 p.m.

Make cheques payable to The Amigans. Cheques or drafts must be payable in U.S. dollars. Personal cheques from Canada are accepted in U.S. dollars. Foreign cheques must be drawn on a correspondent U.S. bank with a dollar account. Sorry, no credit cards.

If you expect an answer to a letter of general inquiry about problems in using Amiga, please send a self-addressed envelope for the reply. Inquiries received without one probably won't be answered.

News Breaks ...

TPUG -

We appreciate the number of references you have sent to us and we have been proud to serve the Commodore PET Marketplace.

Due to our limited capacity at this time, we have decided to concentrate our efforts on the B-128 computers. In order for us to consolidate our inventory, we must clear warehouse space of all older model computers and accessories.

Since TPUG has done so much for us in the past, we have decided to offer the following to TPUG members. All quantities are severely limited and subject to previous sale.

8032 to 8096 memory expansion boards	$75.00
SuperScript 8096	49.95
SuperBase 8096	49.95
Calc Result 8096	59.95
SuperPet 9000 (new)	150.00
SuperPet 9000 (rehab)	100.00
8050 (new)	299.00
8050 (rehab)	199.00
9090 (rehab)	399.00

Prices are in US dollars and do not include shipping charges. Be sure to mention that this order is for a TPUG member.

Bruce Faierson, Northwest Music

Quantity discount on TPUG Disks

On orders of 20 or more Amiga Disks, TPUG offers a 40% discount to members. That works out to $6.00 per disk and applies to all Amiga disks in our library, TPUG, FISH and AMICUS series. (Postage extra)

Meeting Schedule

C-128: First Tuesday of the month.
 Contact - George Skinner - (416) 255-8538 (mornings)
Amiga Central: Second Tuesday of the month.
 Contact - Paul Kreppenhofer - (416) 234-1067
C-64: Fourth Tuesday of the month.
 Contact - Wilf Meissner - (416) 789-4335

All of the above meetings commence at 7:30 p.m. in the York Public Library, 1745 Eglinton Ave. W. (just east of Dufferin), in the Auditorium or Story Hour Room.

N E W in S E P T

Westside and Amiga West: Third Thursday of the month at Alderwood United Church, 44 Delma Drive. 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 Avenue, east on Evans to 2nd stoplight, south on Gair to Delma Drive. From the north or east, follow signs from QEW or Hwy. 427 to Browns Line, exit right to Evans Avenue, turn south on Gair (first stoplight) to Delma.
 Contact - Bill Cumberland (416) 278-7687

Eastside: Second Monday of the month at Dunbarton High School, in the computer room. Go north on Whites Rd. from the traffic lights at Highway 2 to the next traffic lights; turn left to parking lot.
 Contact - Don Farrow via Sylvia at the TPUG Office, 733-2933

TPUG BBS   *PunterNet Node 2*

(416) 273-6300 *(Mississaugua)*   **(416) 733-2933** *(Toronto)*
24 hours a day, 7 days a week
☞ *except weekdays noon to 5 pm. EST*

* the password is SHELF *

TPUG on Quantumlink

The TPUG SIG is located in the Commodore Information Network's User Group Support Center

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In Memoriam

**Dr. George Nicholson (PhD Eng) passed away Sat Mar 4, 1989.
Suddenly. Unexpectedly. A massive heart attack.**

Most of you would not personally know George. George has been my mentor, my advisor, my assistant for the past year ... since Feb 1988. He has been the man behind the scenes, as far as the TPUG C64 disks for the past year have been concerned.

George has been one of the many unsung heros/volunteers of TPUG. Unfortunately, it sometimes takes something as drastic as death to remind us of the small things of life. Small things such as saying thank you.

George took much of his personal time in typical unselfish involvement, to correct, inspect and beta test the C64 disks I have produced and released each month, since Feb 88.

Thank you, George. I will sorely miss you.

TPUG C64 members will miss you, though they may not know much of you.
 May your soul rest in peace.
Anne E Gudz, B.Sc.D.C.

The lawsuit concerning Microsoft Windows 2.03 versus Apple's MacIntosh/Lisa interface has now had a first ruling. Both sides claim .. not exactly victory, but that they didn't lose.

does your program look and feel like a ripoff?

"Look and feel" - the idea that if one package's appearance resembles another, it infringes on copyright - has been a hot legal item in the software industry for several years now. The legal aspects, which vary according to where you live, are outside my expertise; I won't comment in a legal sense.

But wherever computer enthusiasts gather, related questions are asked. Should we adopt a good user interface as standard, or would this be stealing another person's ideas? If we run across an efficient piece of code - say, a fast method of sorting data - should we use the method in our own programs, or should we grit our teeth and re-invent the wheel? If everyone has a copy of a given program (for example, it's shipped in the box with every computer) is there any harm in including such a program on a public domain disk?

I have mixed feelings about standards. On the one hand, I object strongly to suggestions that standards be imposed as a matter of habit. If BASIC had been standardized in 1970, Microsoft Basic might never have come into being. And Microsoft Basic is for all practical purposes the standard BASIC for microcomputers today. There were movements in the industry to standardize 8-bit computer chips - back in 1974! Had they succeeded, the whole micro industry would have been held back.

On the other hand, we need standards in many practical areas. The RS-232 connector that many of us use with our modems is good to have. Almost any modem will plug into almost any interface, with the result that we have a much wider choice of equipment. Standard communications protocols allow data to be sent between almost any pair of computers. And even the jumbled QWERTY keyboard is a standard that we use daily.

I wonder what kinds of cars we might be driving if the first automatic shift systems had claimed the PRNDL sequence as

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their own "look and feel"? That standard sequence is not just a user convenience. It's also a safety feature to have a standard arrangement. To carry the thought to its ridiculous extreme: suppose the arrangement of the clutch, brake, and accelerator pedals on the car were viewed as proprietary, so that each manufacturer had a different arrangement?

I work with a variety of computer programs that do similar things. It's annoying when different packages call for a different actions to do the same job. To scan for a specific piece of text in a document, do I need command S (search), or F (find) or H (hunt)? Will I cut and paste with C and P, or do those letters command Copy and Print? I hesitate. I look and feel clumsy.

I have a cassette tape manufactured before cassette tapes were standardized. It isn't good for much. In this case, industry leadership by Phillips created a standard and made it accessible to the world - to everybody's benefit. On the other side of the coin: it's said that the look and feel and style of BetaMax videotape cassettes was vigorously policed by Sony; perhaps this is why its competitor, VHS, is now virtually the industry "standard".

I think I kick most against the idea of enforced standardization when creative questions are involved. When I'm writing a program, I want to reach out for new methods. For one style of input, I might ask a user to type in a name exactly; in other cases, I might permit misspellings, or offer a menu, or even have the choice "implied" by the way other user information is supplied.

But I often don't feel the need to be creative in handling standard jobs within my code. Convert a number to hexadecimal? Search a table? Parse a user input, breaking the sentence into words? For these tasks and many others, I'll just trot out my "standard method".

I view many of my programs as "templates" for other programmers. If you find a good piece of code, grab it and use it. Don't re-invent the wheel. I sometimes call this "creative plagiarism", and I mean the term in its positive sense. Don't steal an entire program (unless invited to do so), but use ideas, concepts, and even methods to make your own creation.

Most of us understand that certain creative ideas are entitled to legal protection. The famous Walt Disney characters, for example, can't be used without permission. Where programs are creative ideas, we should respect them as such.

But it's hard to know whether an original screen data presentation or keyboard usage layout needs to become private property. It would be a shame if, because of this, other packages could not standardize on a good user interface.

Within the software industry, the question is important and often needs to be resolved by legal means. Most computer hobbyists can use common sense: does your program look and feel like a ripoff?   ✔

PAPERCLIP III TIPS

If you are using PaperClip III on the 128 with a 1541 disk drive, you will likely run into problems with saving and loading sequential files. The program assumes you have the faster 1571 drive. If you save and then try to load a SEQ file in the normal manner, you will get a 'file mismatch' error. The solution is to toggle off the fast serial mode by pressing CTRL/Shift 6. The status line will indicate the fast mode is disabled, and you can use SEQ text files at will.

If you change disk formats (even to include 4040 formatted disks) while running PaperClip - remember to INITIALIZE the disk drive before attempting a disk access. Control > IØ (Initialise drive Zero) will do the trick to eliminate that pesky blinking disk error light that could hang up your whole system.

Punter PC-Board Tips:

In lieu of the feature article we've asked Steve to prepare describing the features of the new TPUG BBS system.

Control P will cancel virtually any current command or operation.

Context-sensitive HELP is available at any prompt for action : Merely enter H or ? (you may or may not be required to follow that with a carriage return).

Club Critique Night:

The Northside meeting should be of interest to all members except those who find the club perfect as-is. All members should attend, foaming at the mouth, filled with righteous indignation at the obvious stupidity of the current management, and ready to tell the world.

If for some reason you can't attend, how about dropping a postcard to one of the club officers. Can't afford a stamp? Try calling one of the officers (listed on another page). Shy? Muffle the phone with a handkerchief, or neglect to sign the card. Don't feel you have to offer a better method, though any suggestion offered will be accepted and debated. Or, you could 'cop out' and merely start a rumor!

Can't think of any deficiencies?

Come now, how about ...

Meeting nights are bad for me, how about another night? Discussions are too (technical, simple, boring). The same topic occurs over and over. (Meetings, newsletters) are boring. Public domain software is boring. Meetings should have (more, less) (commercial, public domain) demonstrations.

I have no interest in BBS's, SID music, graphics, machine language, games, word processing, BASIC programming, PETs, C64, C128, Amiga, disk drives, hard drives, modems, printers, databases, utility programs, software, hardware, magazine or book reviews, public domain software, hardware, joysticks, trackballs or mice, COMAL, FORTH, C, PASCAL, other programming languages, writing programs, how the machine works, business programs, computer control applications, robotics, artificial intelligence, printing, disk operation and use, modem information, transfer protocols, repair and alignment of equipment, CP/M, MS/DOS, computer terminology, fast load cartridges, the DOS wedge, explanation of what a wedge is, common PEEKS and POKES, reading and writing disk files, tips and techniques, GEOS, drawing and animation, home finance, database managers, inventory control, utility programs, sorting files, using the computer in other hobbies, IFF graphics, conversion programs, surge supressors, powerline filters, disk cases, history of computing, home-built computer desks, office layouts, mailing labels, interfaces, sources of fanfold paper in colors, cheap disks,

magazines, debugging programs, making printer ribbons from old pajamas, desktop publishing, desktop video, laser printers, 24 pin printers, inkjet printers, color printers, disk labels, memory maps, ASCII, binary, hex, parity, stop bits, checksums, strings, error messages, matrices, spreadsheets, flat files, relational files, networks, tokens, dipswitches, shields, cabels, sectors, tracks, headers, addresses, BAMs, jump tables, diagnostics, bench marks, GCR codes, ADSR envelopes, chip registers, secondary addresses, IEEE bus, wait states, pinouts, registers, boolean truth tables, arc, lynx, zoo, pak, sda, printer heads, tractors, reserved variables, startup sequences, batch files, stacks, buffers, arrays, copy programs, midi, spell checkers, mailmerge, aligning columns, carriage returns, line feeds, ticks, jiffys, chain, link, interrupts, kernals, flags, baud rate, points, pitch, banks, op codes, character sets, light pens, drawing tablets, RS232, centronics, din plugs, luminance, halfbrite, interlace, composite, RGB, analog, digital, cylinders, sequential files, relative files, user files, program files, bytes, bits, validate, verify, splat, wildcards, trills, fermata, glissando, harmonics, tremulo, retrace, sprites, mobs, nul, soh, stx, etx, eot, enq, ack, bel, bs, ht, lf, vt, ff, cr, so, si, dle, nak, syn, etb, esc, carrier, latch, toggle, flop, timeout, DRAM, RAM, ROM, user ports, expansion ports, flow charts, kerning, windows, pixels, resolution, floating points, phoenetics, phoneme, double precision, mantissa, random numbers, fractals, unary negation, modulo arithmetic, libraries, system heap, stack, passwords, backdoors, virus, scripts, fonts, digitizers, scanners, frame grabbers, genlocks, palette, wipe, cycle, fade, fetch, stash, strobe, backups, parameters, macros, overscan, Xmodem, Ymodem, Zmodem, CRC, Kermit, Punter, handshake, duplex.

I would like to (have, teach) a class on (see above list). I would like to (join, start) a SIG for (see list above). I am very interested in (see the above list) but need some help.

The newsletter should have columns for treasurer's report, disk librarian's report, minutes of the last business meeting, information about SIG meetings, small utility programs, tutorial subjects, (longer, shorter) editorial column, interviews with members, interviews with celebrities, reprints of forums from national BBS's like PLINK, QLINK, CompuServe, and

Genie, "homey" articles about events around the club, advertisements, variety of content, jokes and cartoons, list of new library additions, list of new members.

(You can't really make a printer ribbon out of old pajamas - just wondering who was awake!)

We are the Church

The following statement was made at a recent church service - and has definite parallels to any volunteer organization.

We are the Church. It is composed of people like me. It will be friendly if I am friendly. It will do great work if I work. It will have great missionary outreach if I have great missionary outreach. It will win others to Christ if I win others to Christ. Its seats will be filled if I fill them. Therefore I must dedicate myself to being all that I want my church to be.

Now what parallels do we see with TPUG? Why join a users group?

Is it so you can meet other people who have a common interest? Then you must introduce yourself at meetings and meet people, find out who is in the club.

Is it so that you can learn from the experience of other people? Then you must offer whatever it is that you know for the benefit of the club - either volunteer to discuss a program you use at the monthly meeting, or write a short article for the newsletter, demonstrate how to hook up a printer, stick around after meetings and get involved in conversations with others, be courteous to the person giving the program by being attentive and not talking or being disruptive, listen and ask questions.

Is it so that you can get a lot of software from the club library? Then, you must use the library. Find out what is in it - explore for the diamonds in the gravel - share what you have found. Add your favourite shareware and public domain finds to the library.

Is it because of an interesting newsletter? Can't be bothered to write a letter to the editor? Then write an article, offer to read other newsletters for articles pertinant to our needs, help assemble, fold, stuff or stick on mailing labels.

Is it so that you can learn to use the club's bulletin board? Then call the board regularly, participate in discussions, leave messages to others, upload programs as well as download.

Involvement Strategies !!

Is it so you can learn more about computers at a large computerfest? Then help organize it, participate in it, attend it.

Is it so that as a group we can have clout with software and hardware developers? Then let your opinions be known.

Is it so that you will have access to a group that might be interested in buying used or surplus equipment that you might have? Then put ads in your newsletter and bring your equipment for sale to the meetings.

In other words, the club will be whatever you want it to be if you help it, otherwise, the small group that is carrying the ball will eventually get burned out and there will be nothing.

The pastor at the aforementioned service closed with his story of a baseball team that went to play the biggest game of the season with their strongest rival. When it came time to take the field, the team was in utter dissaray.

The pitcher took his place on the mound, the catcher was behind the plate, but he had rushed off in such a hurry that he had forgotten to bring his catcher's mit. He was there, but had not brought his working equipment. The first baseman didn't show up because he had been out late the night before and just wasn't feeling too well. The shortstop couldn't make it because the family was going camping and they wouldn't be back in time. The third baseman refused to even come to the game because the pitcher had not been to visit him for at least three weeks, perhaps even four. The second baseman wouldn't come because he hadn't been given a special invitation to play .. merely a general announcement that the game was scheduled. All three outfielders got their heads together and decided to just sit down on the grass because the infielders were expecting too much from them.

Needless to say, the team was beaten terribly. Following the game, they had a team meeting. They decided that they would get a new pitcher because they were sure it was the pitching that had lost them the game.

As the prophet Nehemiah said so succinctly, "And all the people said, 'Let us rise up and build', for the people had a mind to work".

Strategic Thinking and Managing:

The Required Change In Management Vision Is ...

from	to
• a static view of the world	• An acceptance that rapid and profound change is now the norm
• largely ignoring current conditions, trends, changes	• learning to 'read the winds of change' and making decisions based on readings
• a short term view of the enterprise	• adding a long-term perspective that influences current decisions
• a 'Bunker mentality' in turbulent change	• being alert to opportunity in change that moves the corporation towards its vision
• motivation staff thru rewards of money, status and promotion	recognizing the 'information expert', motivated by support for their creative work
• underestimating the complexity and resources needed in implementing change	positioning adequate resources over time to change corporate culture, values, behaviours

The Required Change In Management Style Is ...

from	to
• striving for stability	• managing orderly change to achieve the corporate vision
• striving for absolute control	• orchestrating synergism
• reactive management	• adding anticipatory and visionary leadership
• focusing on internal communication and participation	• adding external communication and dialogue with members
• buying all new skills needed for change	• developing new skills from within current membership
• confrontation to bring about change	• collaboration to bring about desired change
• understanding the insecurity of people in charge	• creating an atmosphere of trust for membership going through change

The Required Change In Attitude Is ...

from	to
• idealizing the past	• maintaining a perspective on the past in creating visions of a new future
• pay scant attention to ethics and public opinion	• making good corporate citizenship a priority
• a low tolerence of creativity	• encouraging and using creativity
• viewing members as human resources only	• valuing members as persons within a social context, with potential for growth/change

From the Keep
Sean Rooney

Question: Is newer, Better?

Okay, fine, I've just gotten an asignment from a systems house to write user-documentation (manuals to go on the user's shelf) for an accounting system written to run on a Compaq 386/25 running SCO-Xenix.

Now I could use my old IBM XT286 (bought 2nd hand) and Wordperfect to write this documentation, or I could even use MacWrite or WordPefect on a Macintosh Plus. I think I'll get Samantha to help. 'Samantha, who in the world is Samantha???' asks Ms Deb (my partner in crime). Samantha is my ancient but highly reliable Commodore CBM-9000 SuperPET. Sam's attached to an 8250, a 4040 and 2 rebuilt D-9090 Drives. The only software she runs is Paperclip-9000A, (715 lines at 80 columns is enough for anything I'll ever write). Sam prints to a Star-Micronics Laser-Printer-8 through an ADA 1600 printerface, which in turn is attached to a neat little box called a 'Sentient buffered printer switch box' from AMA Computers of Mississauga. This little box has 4 input lines, 1 output (to the printer) and 512 K of RAM. This wee little beasty scans the inputs 60 times per second for print job requests. What this means in people-speak is that if 3 computers all send print jobs, they all get printed, one at a time, in the right order, with no print-que contention. (So

there! look at the buzzwords fly!!!)

Okay, fine, I've settled upon getting Samantha (my friend who happens to be a SuperPET) to help me write this documentation. Samantha's helped me write 13 Role Playing Game Modules, 3 technical manuals, 2 mini-books, (and a partridge in a pear tree). Not to mention 6 years worth of school assignments, letters, magazine articles and zillions of lines of APL code! (That's a lot of keyboard pounding!!!)

Question: Is newer, Better?

Sure, I could use Wordperfect on Ivan (IBM-XT286), which would be fine too, I guess. I'm comfortable with Wordperfect, and I even occasionally teach it to secrataries and students from the local college, but I find it highly irritating to have to use the 'reveal Codes' command (ALT-F3) to find out how everything is setup. (Margins, fonts Etc) With PaperClip, I simply use a check-mark and some formatting codes! Simplicity! I love it. My friend/Advisor/working partner (Deb) has a pretty close to exact copy of Samantha for her work on our joint projects. She says she wouldn't trade 'Sinbad' (her SP-9000) for any dedicated wordprocessor in the whole wide world. I guess that means that she likes her old CBM.

It's a pity that Batteries Inc'. went under, to be bought by Electronic Arts.

(who then in turn trashed PaperClip!!!) If you need a working word-pro system, and aren't interested in paying $1500 to $3000 for a PCompatible, then I'd like to suggest that you consider any 80 Column PET (8032/8096/9000/8296) with either Paper-Clip or Steve Punter's WordPro 4+. As a minimum for professional writing, Get an 8250 (2*1.1 Meg) drive and either a 2031 or 4040 (for talking to C128's so you can get your files converted to/from MS-DOS format) and a half-decent printer. The Commodore 8300P letter quality printer can be had for not unreasonable amounts of money, but you can use any printer, (provided of course you can find an interface for it). Connecticut Micro Computer in Brookfield Conn, produced a line of very nice PET-printer interfaces. They're very good, and you may still be able to acquire one from either a used computer shop (Try Second Byte on Yonge St, About 5400 or so) or try writing to Connecticut Micro, or COMSPEC in Willowdale. All of this can be had for a fairly small amount of money. Possible for a trade (PET for an old IBM???)

Anyways, I've gotta get going, I've got tonnes and tonnes of stuff to write, some systems to tweek, and a very nice Deb to take to lunch. Have fun, see you later.

From The Keep

Making Space on WorkBench 1.3
John Krout

The release of Workbench 1.3 brings a very heady mix of pleasures and pains. One of the pains is lack of space on Workbench 1.3 disks. I've managed to delete several dozen files to make substantial and very welcome space. Below you'll see what I did.

If you are just beginning to use the Amiga, please remember always: NEVER ALTER YOUR ORIGINAL DISKS. Make copies, and play with those copies only. One way to copy a disk is to drag it's icon over the icon of another disk. The other disk can even be a bad (unformatted) disk. Although you can also delete files by identifying their Workbench icons, many large files have no icons. CLI provides the way to find and delete iconless files.

Here are the files I deleted:

IN THE C DIRECTORY: Ask, Avail, ChangeTaskPri, DiskChange, DiskDoctor, Edit, Eval, Fault, FileNote, GetEnv, Join,

Lock, Quit, RemRAD, SetEnv, Skip, Sort, Version, Wait and Which. If you don't have a memory expansion, you can delete SetClock.

IN THE PERFS DIRECTORY: Init-Printer, MergeMem, NoFastMem, Set-Map, and their .info files.

IN THE SYSTEM DIRECTORY: Aux.Handler

IN THE DEVS DIRECTORY: printers/generic

IN THE S DIRECTORY: DPat, PCD and SPAT

IN THE FONTS DIRECTORY: I deleted the entire directory because I don't like any of the supplied Amiga fonts. Then I found out that Access!, the terminal program from our disk library, won't work unless at least one font is in the disk library. So I left the file Topaz.font in the directory.

IN THE UTILITIES DIRECTORY: I deleted everything except Notepad and it's

.info file.

Those steps freed up some room, but not as much as I'd hoped. The remaining steps require some additional consideration. First, you can save a great deal of space if you decide to forgo use of the Amiga voice. Music will still be feasible. The files which you can delete are devs/narrator.device, I/speak-handler and libs/translator.library. If you do not have a hard disk, you can delete devs/FastFilSystem and Startup-sequence.HD.

With these deletions, I ended up with more than enough room to put Word-Perfect, Deluxe Paint II, Superbase Pro, Analyze, Metacomco Pascal or any terminal program on a Workbench 1.3 disk, and they all work fine.

Reprinted from the Washington Area Commodore User Group, Springfield, VA Newsletter

(Z)ABL Dec. 1988

BAWK.LBR A text processing program that searches files for specific patterns and performs 'actions' for every occurance of these patterns. The pattern can be a 'regular expression' as used in the UNIX 'ex' editor. The actions are expressed using a subset of 'C' language. Source for standard 'C'.

CPMCONF.TZT Brief account of CPM guru conference.

CPM3.FIX.LBR Fixes for problems to CPM3/utilities from DRI including submit files. Note: one fix has a warning. TPUG not liable for any damages due to use of this file.

FILES.TZT File handling in CPM & MS/PC-DOS

TAIL21.LBR The UNIX TAIL utility to look at the end of an ASCII file.

UNPIT.LBR UNPackIT Macintosh files - especially those picture files from MacPaint.

WIERDPPL.PIT A Macintosh picture file of some strange people. You may need to delete part of the beginning of the file.

ZCPR3.TZT A brief description of ZCPR3. Advanced CPM3 users will recognize most of the features. Flow control is not readily available yet, but PD solutions address that area. Much of the rest mentioned here, except the Z3INV option, have some counterpart in CPM3.

(Z)ABP Apr. 1989

QL40 Quick Look V 4.0 is the ultimate file display utility. It provides ASCII or HEX display (no need for separate utilities), it operates in paged or scroll mode (glass TTY), has built in help, find feature and this new version has a menu structure that provides a pick-a-number approach to selecting the desired filename PLUS .LBR file support with the same menu support for the .LBR directory and extract capability. One of the best utilities on any make of computer - here, today, for CP/M.

(Z)ABQ Apr. 1989
Computer Expo Show Dsk

This is a fully automated disk. Copy the files to a 1571/1581, double sided disk, add CPM+.SYS and SUBMIT.COM from your own boot disk and you have a com-

pletely automatic disk. Just put the new disk in your A drive and reboot your system (C=128: CONTROL and ENTER on numeric keypad). If you have trouble with load error messages, exit to CP/M and use QL40 to extract the troublesome file from the COMMAND.LBR.

CCP.COM CCP104 replacement for CCP.COM. From disk (Z)AAV.

CMDRUN.COM Permit .COM files to execute when stored in .LBR. (Z)AAV.

COMMAND.LBR :

BOOZ.COM Bare bones ZOO List/extract utility. BOOZ <return> for help. From an upcoming disk.

ECHO.COM Echo arguement to screen. (Z)AAJ.

HIST.COM Command history facility, store latest commands, recall with ^W or ^V. List with ^L. (Z)AAV. *Do not use with MENU.COM.*

LOADKEY.COM Utility to load redefined key files. (Z)AAT.

MENU.COM Operate CP/M with menus. (Z)ABG. *Do not use with HIST.COM.*

QL40.COM Quick Look file/RAM view utility, supports .LBR, squeezed and crunched files, select by number. (Z)ABP.

RSXMAP.COM Display Resident System eXtension modules, addresses, more. (Z)ABG.

VAX.TZT Article on Digital Equipment VAX user experience in Big Blue country. NEW.

VDE.COM Video Display Editor, a good editor for ASCII files. (Z)AAT.

VDE.HZP VDE help file, use ESC then ? in VDE. If you don't understand the display, view this with QL40. NEW.

VFILER.COM An indespensable file handling utility. Copy, rename, view, print, tag/untag, mass copy or delete, help screen. (Z)AAV.

LOGO.COM Print C= logo. NEW
MAIN.MNU Operate this disk from a menu. NEW
MATHEMAT.ZOO File to test BOOZ on. NEW

MATHEMAT.ANN Announcement of Mathematica for other computers, perhaps Amiga.

ZZENDPAD.FOO File to protect 'archive' when XMODEM transfer.

MENU.COM Operate CP/M in menu mode. (Z)AAV.

PIPMAG1.LBR CP/M electronic newsletter. NEW

C128FILE.LZB Genie LIB's 1-10, files for C=128.

COMPRESS.TZT Tutorial on file compression: .LBR, .xQx, .xZx files.

MAGBKS.TZS List of CP/M info: magazines and books.

NEXTISS.PZP About the next issue of PIPMAG.

QDPRESS.DZC Q-Disk press release, from Hearne Data.

S81UTIL.RZV SSI 1581 Utilities review.

PROFILE.SUB BOOT CP/M, this file loads LOGO, HIST, MENU. NEW

(Z)ABR - May, 1989

This disk introduces a new IBM & compatible disk utility that increases the utility of the C=128 in a mixed machine environment. Better features than the commercial utility that handles IBM & compatible disks (i.e. ERA & REN options); still does not support sub-directory feature.

ARK035.LBR Updated ARKive utility
BOOZ4CPM.LBR Barebones ZOO for CP/M, new compact/archive. Complete with notes and source code.
PIPMAG2.LBR 32k

BOOKREV.DZR Review of C=128/CP/M books
COMPRESS.RZS
COPYRITE.DZC
CPMLIB.JZO
CPMSOURCE.PZT
DBASEFIL.CZH dBASE II example
DBBOOK.JZ0 dBASE II book review
EDITOR1.NZJ
HARDWARE.NZJ
HELPHELP.HZP
JUGGLER.RZS Jugg'ler review
QDISK.NZJ QDisk news release
TRANS128.LBR 22k

TRANS128.CZM format/ read/ write/ dir/ era/ ren PC/MS-DOS disks in CP/M. Menu operated, does it all but requires full TPA so you cannot have any RSX's loaded. Supports 5.25" drives only.

TRANS128.DZC Documentation

VLU.CZM Video library update: from Z3 world, modified to run under CP/M 3.0. NOTE: This version has numerous bugs. It is included to show the value of the utilities that exist in the Z3 world and now available to C=128 users with the recent release of Z3 Plus. Coming soon: a complete Z3 disk. For information on Z3 Plus, see recent issues of Transactor, Twin City 128 newsletter & Computer Shopper.

C-128 Disk (Y)ABF

MACRO ASSEMBLER - Programming aid to help those familiar with assembly language and the creation of source code and object files. It is a large freeware program and most files on this disk belong to it. Documentation is available in English and French for both 40 and 80 columns. Read your choice of these for loading and useage instructions.

CASTLE.PRG - A tough adventure game to try your skill and patience. Suggest you draw a map as you go.

C-128 Disk (Y)ABG

NUTRICALC - Monitor your daily nutritional intake with this shareware addition to our library. For your amusement only. See your doctor before doing major things to your diet.

TAX88.V1- And now for your financial health, Jim Butterfield's tax program to help you with the math.

DISKCOPY128 - Here's a single drive copier to help in the transferring of your favourite files to their own disk(s).

C-128 Disk (Y)ABH

TICKER80V7.1- Computer version of the popular Stockticker game.

DESTERM.SDA - Self dissolving archive terminal program. Have a blank formatted disk ready to dissolve this archive.

STAR TREK 128 - Hi-Res 80-column version of this popular game.

JOYMUSIC- Make music using this program and a joystick.

SCANNER.128 - Checks Basic programs to see if they will run on a C128.

DUMP DOOD 64/26 thru DOUBLE - Run RUBIN'S RUN-ME for documentation on these utilities.

COPIER - A copy program that may be useful for backups.

The following disk was left out of the previous disk update listing.

C-128 Disk (Y)ABB

ACCOUNTS Documented bankbook program

C128 TOKENS.DOC Seq. file explains some C128 inner workings.

PULL DOWNS Sample routine demonstrates 40 column pull down menus.

BINGO CALLER Play bingo with your computer.

EASYEDIT}{ Character set editing program (40 col)

SQUARES 40 column King of the Squares game

COLOR TEST 128 Set up your monitor with this

VIDEO POKER 40 column card game

BURGER 128 80 column arcade type game

ALIGNCHK.V2 check 1541, 1571, & 1581 drives

128 SEQ.EDITOR correct errors in seq. files

80READER1.1 read files on 80 column screen

AIRPORT128 40 column air traffic control game

Amiga New Releases

librarian - Paul Kreppenhofer

TPUG (A)TAV Jan. 1989

AmyToday6.1 This is the latest version of this popular on-line magazine.

ABugNews This is a file from another local Toronto Amiga group.

Blitter II This is a very fast smooth 3D demo from Germany.

Q-Cat QCat prints out the full pathname of each file in a series of disks.

WOF A great version of the popular game show. Complete with Vanna and speech. Very good.

LotsofIcons Here is a file full of icons for your own use.

Virus3.10 This is the latest version of VirusX (includes a CLI runable program called kv that kills the IRQ virus.

TSnip14 This is a text cutting/pasting to/from windows program. It lets you cut text out of windows and paste to other windows.

Startup13 This startup-sequence program will allow you to choose from 8 different options off the same workbench disk.

MRPrint This is a multi-featured text printing utility.

TPUG (A)TAW - Feb. 1989

Bankn A customizable system that allows you to keep track of your bank account. With many options.

Friends Cute little hack.

Icontut This file contains three utilities that allow you to manipulate and make icons from IFF brush files.

Admiralkirk Picture of Admiral Kirk.

Bugs Picture of Bugs Bunny.

Roadmap A Jim Butterfield program that lets you choose two popular North American cities and then tells you how long it would take to drive there and what routes to take.

BigScreen This program allows the user to specify left and top offsets and height and width of a workbench screen.

GFX MEM Gives you a running track of your memory usage.

Backgammon A you versus the computer backgammon game.

Poker A one-player basic poker game.

TPUG (A)TAX - Mar. 1989

CLK304 Latest version of this popular workbench utility.

Icons Lots more icons for use with your programs.

Demos This file contains 3 graphic and sound demos.

Virus An announcement on one of the newest viruses.

AmigaTax This is Jim Butterfield's 1988 Income Tax program.

DskMap Running this program lets you see how the files have been saved to your disk.

DPS Dynamic Picture Show. This program lets you save IFF files as self contained runable programs.

TPUG (A)TAY - April, 1989

DSD Disk Storage Deluxe 1.0. This is a small program that will display a list of all currently mounted devices including hard disk partitions.

Access Latest version of this popular terminal program.

Memopad1 This is a memopad program that lets you generate memo items which are simply dated birthdays, appointments, etc.

Cards"O"Rama This is a guessing game along the lines of Concentration.

DODECandDONUT A nice graphic picture.

Skyterm This is a terminal program to show off the graphic capabilities of the new skypix protocol.

TPUG (A)TAZ - May, 1989

Graphics:
PointerAnim This program lets you have fun by making animated pointers.
Pictures Some more of the popular Jo-Anne Parks pictures.
Utilities:
Mackie Another workbench utility.
Dos 1 Shot Lets you run a single CLI command without having to enter CLI.
Business:
Your Money An expanded checkbook program that keeps track of all financial transactions.
Games:
Chess A chess program that lets you also play over your modem.
Tiles Match the proper tiles to win the game.
Kings Korner A different kind of solitaire.
Amiga Maze An ABASIC maze program.
Tetric This game is based on a Russian game in which you place falling blocks.

Note Games Disks 1 and 2, formerly listed as (A)GAA and (A)GAB are now designated (A)G1 and (A)G2

TPUG (A)G3
Games Disk 3

Boulderto Emerald Mine lovers will like this kind of game with many levels for you to complete.
Pz 15 If you remember 'way back, when you were young and used to dig deep in your cereal boxes for those cheap little puzzles, then this program is for you. It recreates one of these puzzles for you.
Hacklite This is the latest totally reworked version of Hack.
Bally This is an Amiga variation of the popular arcade game called Qix.

TPUG (A)G4
Games Disk 4

Tetrix This program is based on an old Russian game in which you have to place falling blocks in order.
Cards'O'Rama A good version of Concentration
King A one-person solitaire program with a few twists.
Chess You can play this game against a friend with you or over the phone via modem.
Tiles A solitaire tile game similar to mah-jong.
Castle This is an adventure game that uses both text and graphics.

(A)D1

ABACAS 3-D Demo Disk.

(A)D2

TV TEXT Demo disk.

(A)F1

A disk with fonts

(A)G5

A different kind of game called Descender.

(A)G6

Design and build fighting robots to play in the arena of Battledroids.

(A)G7,8,9

A three-disk Star Trek game - GREAT! Requires 1 meg.

(A)G10

GoAmy Demo disk with plenty of hints and hacks for beating your favourite games.

(A)M1

Sounds 1. A disk full of sound effects to use with your favourite programs.

(A)M2

A collection of songs, mostly 80's music.

(A)P1

A bunch of interesting graphic demos.

(A)P2

A disk full of digitized space pictures.

(A)P3

A couple of Page Flipper FX animations.

(A)P4

3 GREAT graphic demos.

(A)P5

A large graphic animation. Requires 1 meg.

(A)P6

A collection of Fantavision movies.

(A)P7

An Art Magazine on disk.

(A)P8,9

The popular 2 meg, 2 disk Star Wars demo.

(A)Z1

A full-feature astrology program in GERMAN.

(A)Z2,3,4,5

A four disk set of the BIBLE.

(A)Z6

Several sending and receiving programs for HAM Radio lovers.

(A)Z7

A collection of "C" programs.

TPUG Toronto Pet Users Group, Inc.

disk order form

5334 Yonge Street, Box #116   Willowdale, Ontario, M2N 6M2   (416) 733-2933 noon to 5 pm, eastern

Thank you for your order.   Enjoy the contents of these public domain disks. <u>All disks cost $10.00</u>

INFO and BEST OF series disks do not qualify for discounts.

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4		**FREE**	
5			**FREE**
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PLEASE PRINT ALL INFORMATION

DISK ☐ 1541/1571/4040   ☐ PET 8050
FORMAT ☐ Amiga   ☐ CP/M   ☐ MS/DOS

Name _____

Address _____

City _____

Province/State _____

Postal Code _____

Home Phone _____

Business Phone _____

TPUG Membership # _____

Payment by: ☐ Cheque   ☐ Money Order

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89/02/28