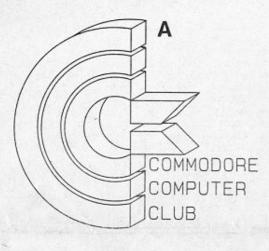
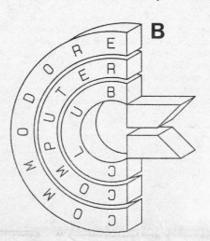
CHOOSE YOUR LOGO

In the beginning, darkness. And so it came to pass Vancouver PET Users' that The Group was born. And the light Artists and Computer Magicians pierced through the darkness. As in the Club were asked to pierced through the darkness. As in the Club eons of computertime passed, the clouds began to be vanquished. But not all the clouds would go, for permit us our name. And so a great convocation was called in revered halls of Sunset

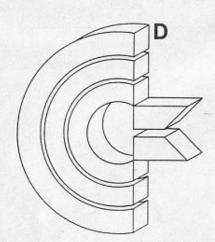
But the Club still had need. A Glorious Symbol to unite us throughout the land. And so the produce designs which would be s began to be vanquished. worthy of becoming the Great not all the clouds would go, Club Logo. Their designs were Mighty Victoria did not duly submitted after much creative toil and hardship. Through the alchemy of the press printing they

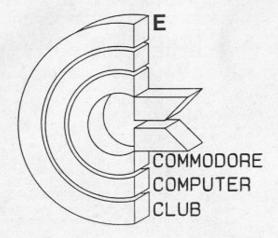
multitudinous murmurs and chants, there emerged ONE: The Commodore Computer Club. And the light shone full strength upon us, for Victoria was pleased. reconstructed for you here. At the next General Convocation there will be great debates and you will choose the worthy GREAT CLUB LOGO.

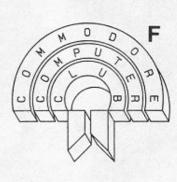












COMMODORE COMPUTER CLUB

Well, we finally did it! several months of inac-After tivity, the Commodore Computer News is a reality. Ne've what hopefully are assembled interesting articles and some

tips and hope you enjoy them.

Don't let your interest cease with reading this paper, how-ever. We are looking for good articles. just about anything else dealing our favorite subject -with Commodore computers and related soft or hardware. If you've recently gotten a printer and are word processing furiously, processing furiously,

now is your chance to give your system a thorough workout with a contribution to the News.

People connected with this paper will be present at both the regular and workshop meet-ings, so please approach them with your ideas and suggestions. Otherwise, don't complain about the same old names writing the programs, reviews and same old lines over and over in issues to come. (Yes, we plan to publish MUCH more regularly than before...).

But for the meantime, read ... and enjoy!

Published by The Commodore Computer Club, P.O. Box 91164, West Vancouver, B.C. V7V 3N6. Club answer phone: PET-3311

Opinions expressed in this paper are those of the individual authors, and are not necessarily those of The Cosmodore Computer Club. The name "Cosmodore" is used with the permission of Commodore Business Machines Ltd.

Club seetings are normally held: Workshop: first Tuesday of each sonth -- 7:00 p.m., Killarney Secondary School Cafeteria, 49th and Killarney; Business: third Tuesday of each month --7:00 p.s., Sunset Memorial Centre, 404 East 51st Ave.

These dates and locations are subject to change. For up-to-the-minute information on any changes, please call the club answer phone:

PET-3311 (738-3311)

PRESIDENT'S MESSAGE

NIELS HANSEN-TRIP

Over the past few years, the and prevent the group from being computer users and enthusiasts Vancouver Pet Users' Group has dominated by any single who come together to help one undergone many changes and has personality. Part of the benefit another learn more about faced many challenges. We have of incorporation is the official computers; to share ideas, and experimented with various ways set of rules and by-laws which problems; to help one another and means of getting things done give the club a legal way of get the best out of their and the experience gained has solving disputes. Your resources equipment — Computer Friends, tably are yet to come.

the rational approach the club has used, we are permitted to bear their name. Certainly, if we damage this relationship they will consider withdrawing the

hardware and free software for the members. Wrong again! This fact, it is probably illegal for the club to engage in this kind of activity under our present corporate status. Good deals are a side benefit -- tinsel and glitter. Where a dealership can a group of people with identify a special interest, it is to the benefit of the company to benefit of the company to increase the volume of their sales by offering a discount to the members of the group. The club itself cannot come between them as a middleman or it as a middleman or it becomes simply a sales organ-ization -- a company in itself. The executive of your club are duty bound to prevent this from We are often happening. approached by non-members who do not want to join the group, but who want a deal on a monitor or a printer. Therefore that is obviously not the purpose of the club else they would consider joining. Our answer to them is simple -- Forget it!

So what's left? Is the club a vehicle for a computerized megalomaniac to realize his ambition for control of others? Hopefully this will not be permitted to happen. There are to take those who would try advantage of this situation, but, again, it is the duty of your directors to work together

experimented with various ways set of rules and by-laws which problems; to share ideas, and experimented with various ways set of rules and by-laws which problems; to help one another and means of getting things done give the club a legal way of get the best out of their and the experience gained has solving disputes. Your resources equipment — Computer Friends, been hard won by our failures are protected to serve you wight say. The authorized and our resounding successes, better. The President must dealerships, the producers of It's been a long time coming, supervise the Directors in the commercial software, independent but we're finally incorporated execution of their duties and company representatives, business the "Commodore Computer must respond to flagrant ness professionals, teachers, Club". The maturity we have violations of the principles, students, housewives and just named will help to carry us However, the President does not plain old backers all joined gained will help to carry us However, the President does not plain old hackers all joined rough the tests that inevi- act independently. The Direct Logelia.

In the provide what would you steal from your personal sounds good, but what does it provide direction. Pay attention or use them for your personal steal from your directors, get to know gain? Somehow, I doubt it. through the tests that inevi- act independently. The Direc--- sounds good, but what does it provide direction. Pay attention mean? Does it mean that we are to your directors, get to know an extension or marketing arm of them all. Talk to them and tell Commodore Canada? Certainly not! them who you are and what you We are an independent organi- are thinking! Let them work for zation with no commercial you. Don't give any individual affiliation with Commodore, the power to control zation with no commercial you. Don't give any individual affiliation with Commodore, the power to control you or although we have developed a manipulate you, or seek good working relationship with advantage over you. The them. The good reputation the Directors will not harm you, club has developed has made it they are elected to their post texture of the group. It is an possible for Commodore to to care for the needs of the approve very quickly almost any majority and not to protect the request we have made of them. special interests of any Therefore, because they trust individual or splinter group. To accomplish this, they need issues are: information and little help. possibly a

There's not much left, is there? Out of all the things worth protecting.

Well, even if we are not a group. I have only one more accurate and up to date.

sales agency for Commodore, one thing to say. The club is a 3. Projects carefully planned of our primary goals should be co-operative association of CONTINUED ON AGES (

We have always dreamed about the club membership explosion that would push out the walls of vidual the Sunset Community Centre. It ou or has ceased to be a dream and we seek are into that stage of rapid The growth that will undoubtedly you, cause major changes in the changes in the exciting time and the future is magnificent. Some of the lessons that we have learned that will help us through some tough some tough

1. Good financial records and budget that we stick to unless there is some significant change identified.

the members. Wrong again! This A BRIEF HISTORY OF VPUG BY ROBERT DEBUER

Pet Users' The Vancouver Group (VPUG) was the brainchild of Richard Leon. He initiated the first monthly meetings at Riley Park Community Centre. Niels Hansen-Trip and Bror Jackson, current executives of The Commodore Computer Club, began their long term service to the group soon after it was born. That was 1977; the group met continuously except for the summer of '81 when the Vancouver Civic Strike closed meeting facilities.

The first PET users bought their machines with only a small brochure from Commodore to guide their use. Thus the group began meeting even before the PET manual was available and users relied heavily on each other for information. Naturally, the group's members had various learning levels and far-flung directions of interest, but through meeting together and preparing demonstrations they were very productive together.

Bringing equipment meetings was a hallmark of VPUG. So even if members had "Personal Electronic Transactors", they were not totally withdrawn, secluded or privately directed with their "personal" machines.

In fact, since 1979 the group has partaken in public demonstrations at least once a year. As part of the Hobby Show at the Pacific National Exhibition, VPUG had a booth near a moon rock display. Even though this booth was under stairs, subject to a sprinkling of dust, VPUG drew such a crowd that it was given the moon rock's prominent location in 1980. That year was also the beginning of the Pacific Coast Computer Fair, an annual cooperative undertaking other microcomputer groups. The outstanding turnout at the University of British Columbia for this Fair led to the for this Fair led to the procurement of the downtown Robson Square Media Centre for the Fair in 1981, 1982 and this vear.

Though often derided as a mere toy, microcomputers have shown themselves to be a unique home tool. Implanting the machine on the domestic scene in an elevated position requires some understanding of programming, so VPUG offered courses: Harold Brochman taught machine language courses beginning in October 1982 and April 1983;

CONTINUED ON PAGE 7

ITEMS OF CONSUMING INTEREST BY MR. MIKE

the Commodore-64 to less than \$200.00 U.S. has some disturbing implications. What is the point of buying a VIC-20, even at a low price of \$88.00 U.S., when it will cost at least \$129 more (i.e., a total value of over \$200), to bring it up to its \$200). maximum memory of 32K? Is this an attempt to kill off the VIC? will the VIC drop even ther in price? (The further 1000 is now under Timex/Sinclair \$30 in some major U.S.centres.)

One rumour going around is that VIC will be obsolete in a year or so. I personally find this hard to believe, with well over a million VICs sold.

one of the other special deals from local computer outlets which dropped the price of this

unit to as low as \$399, you might be having some trouble with one of the dipswitches on the back, specifically dipswitch number one.

It's supposed to turn the paper detection switch on or off, but on quite a few of the models purchased recently (and some not so recently) it doesn't work. One solution to this problem is to construct a device out of plastic film which depresses the switch, located on the left side where the paper is fed into the printer and folds around and down the back of the printer, in order to avoid being drawn into the printer with the paper itself.

Speaking of low prices, if switch either on or off, for it you bought a Gemini-10 printer detects "paper out" at a point through either the club's bulk almost 3 inches from the bottom purchase recently, or through of the sheet, making writing a cone of the other special deals lotter special deals lotter. letter somewhat difficult (not to mention addressing

envelope).

If you're the owner of a Semini, something else you may have discovered -- tractor-fed paper (with the holes punched - tractor-fed down the right and left margins) isn't cheap. This stuff is sold by several stores, and there is an amazing inconsistency to the number of sheets per box, not to mention the price. A good price for 30 pound bond (average letter-quality paper) seems to be around 2.0 cents per sheet.

A slightly cheaper method to go, assuming you want to use your printer for relatively your printer for relatively unimportant things like LISTing programs and so forth, is to buy a roll of Telex paper, which is made out of newsprint, just like this paper you're reading, which is sold by the roll. The cost of this is around 1.0 cents per 8 1/2" x 11" sheet equivalent.

There are a couple with Telex paper, problems however. One is that there are no perforations anywhere, so you have to rip it just above the paper press while holding the paper with your other hand on the platen. (Watch out for little bits of paper which will with your other hand on drop down inside the printer!)

The second problem with Telex paper is that it is only 8 and 7/16" wide. I found that it is very tricky to get it to run straight up and down in the printer -- it usually starts to drift off to one side. So don't try and LIST any monster programs and leave the machine unattended.

Another Gemini-related tip: One of the nice features about the Gemini is that is uses regular typewriter ribbons. Unfortunately, there is a problem with the metal eyelets near each end of the ribbon which are supposed to get caught in the ribbon guide slits and the ribbon's direction. reverse Some of these eyelets are so thin that they will pass right slit, through the and might follow the ribbon's path so they end up under the print head. This qualifies as One Of The Really Dumb Things You Can Do Your Printer. Yes, folks, I With did it myself, but the print head escaped unscathed. It seems to stop whenever it encounters a thick obstacle (if you are trying to type on a sheet of cardboard, for example), but perhaps I was just lucky in this case.

The way to avoid potential disaster is to buy some snap which are sold in fasteners, fabric stores. These are similar to the metal eyelets, only much thicker. Snap these into place just before the eyelets on the ribbon, and there should be no problems.

VIC LIBRARY Blurbs

BY TONY SMITH. VIC LIBRARIAN

Summer is here and the real computer freaks still can be found emerging from basements at 3:00 A.M., glassy-eyed after bashing in a program and debugbashing in a program and de ging at least five versions.

You can tell the REAL freaks in the summer: skin like a beluga whale, so pale he/she glows in the dark. Gone are the and scarf needed to keep the subterranean chill off (why do we always get banished to the basement?). No more Dickensian teardrop on the end of the cold nose. NO ... it's summer, real nerds have switched to shorts, even though it's cool down here.

Here we are: cup of cold pile of cigarette butts, coffee. 18 different colour pens; surrounded by mounds of books and magazines, that's US ... the magazines. REAL NERDS.

Don't worry about a war, we will survive! Humankind will re-new, a race of pallid mumbling creatures with a pocket full of writing instruments. The system can't get to us, we are too detached ... we wouldn't notice.

Then the big one; the family going to the beach and as the duly licensed member of the family ... you gotta go too! The sizzling sunlight is like a lash, like Barabbas emerging from the mines after 10 years underground.

Hmmmm... this isn't so bad after all, an endless litany of waves. But wait ... chanting what's this?

Have you noticed that the waves seem to come in sets of eight? I wonder how many grains of sand are in a cubic foot. This seaweed has sections in sets of sixteen. I gotta build a battery pack for the VIC ... could set it up on this log over here ... Hmmm ...

Anyway, as a result of some ardent but not too fruitful collecting and bashing, we did come up with a new disk release for July. A summary is printed on another page.

There were some very useful utilities submitted by the midnight bit-bashers as well as more games and demos. thanks to those who contributed. The library depends on submissions members to sustain and from expand its contents. If you have an original program of your own or one (or some) that you have punched up from a magazine or book, we would be grateful to have a copy. Your disk or tape will be returned and your name (if you have no objection) added to the program in the master disk. All donations are gratefully received.

From now on the library will available only at the meeting of the VIC/C-64 workshop at Killarney School. In order that we may all participate at the general meeting, the software will not be available at Sunset Centre meetings. This means that now the loan period for a disk tape is approximately one h, or more specifically from or month, or more specification the

You are responsible for the safe keeping and timely return of the software as there are others waiting to use programs. Please return the correct slip cover with the disk, or the plastic box in the case of tapes when you return

CONTINUED ON PAGE 7

WAIT A MOMENT!

BY MIKE QUIGLEY

If you're a lazy person like me, you don't like games which use the joystick or paddles and require you to input various things from the keyboard -- for example, "Y" to start another game when one is finished.

One method to overcome this, as documented in the January 1983 issue of COMPUTE! (pp. 153-158) is the use of the WAIT instruction. The VIC-20 Programmer's Reference Guide says of this command: "...this statement should never be used ... (it) is used for arcane I/O operations and almost nothing else."

Well, folks, such is not the case! WAIT is the answer to a lazy person's dream.

If you examine many BASIC games programs, you will find a line at some point, probably near the end, where you're asked for input to determine whether or not you want to continue, something like "GET A\$: IF A\$="" THEN (here is found the line number of that particular line)". This is followed by "IF A\$="Y" THEN RUN (or GO TO a particular line number to continue with the game}" and "IF A\$="N" THEN END (or some silly farewell message like "BYE" ... sorry about that, they're one of my pet peeves}.

You should replace this "GET A\$" statement, etc., with the following:

WAIT 37137,32 WAIT 37137,32,32 RUN (or 60 TO a line)

This allows you to push the joystick fire button to start the game up again without touching the keyboard. Of course, this denies you the course, this denies you the pleasure of pushing "N" to stop the game, but you're going to RUN/STOP and RESTORE anyway, right?

WAIT can also use the various directions of the joystick as well. For the number "32" in the above example, substitute the example, substitute the following:

JOYSTICK LEFT -- 16 JOYSTICK UP -- 4 JOYSTICK DOWN -- 8

The WAIT business for JOYSTICK RIGHT is somewhat more complicated. You must type PDKE before 37154, 127 and POKE 255 after the WAIT instruction, which is also changed, so the result 1 ooks like the following:

POKE 37154, 127 WAIT 37152,128 WAIT 37152,128,128 POKE 37154, 255 ***

VIC user where port. things like modems and printers can be connected, can also be used for a second joystick. While there aren't many games available commercially for the VIC which feature two joysticks, another issue of COMPUTE! (March 1983, pp. 138-142) has a game --

Aces an an accompanying joysticks, article which tells you how to construct a second joystick. (Second joystick ports are available commercial) Vancouver for a cost of around

The second joystick port can also be used with the WAIT instruction. You have to first change our basic formula to:

WAIT 37136, N WAIT 37136, N, N

where "N" is a particular number as follows:

FIRE BUTTON -- 32 JOYSTICK UP -- 4 JOYSTICK DOWN -- 8 JOYSTICK LEFT -- 16 JOYSTICK RIGHT -- 2

Finally, let's take a look at how WAIT can be used with your paddle controls. Here, we will rely on the old maxim: "A program is worth a thousand words", and present the following brief demonstration:

5 PRINT" (SC)"

6 PRINTCHR\$ (28); "PUSH EACH PADDLE FIRE BUTTON TO SEE WHAT HAPPENS ... (CD) "; C HR\$(144)

10 DD=37154:PA=37151:PB=37152

30 GOSUB9000

35 IFY=1THENGOTO40 37 IFX=1THENGOTO50

38 GOT030

40 POKEDD, 127: WAIT37152, 128: POKEDD, 255:

PRINT"THIS IS Y" | GOTO30

50 WAIT37137, 16: PRINT"THIS IS X": GOTO30 9000 PDKEDD, 127: Y=-((PEEK(PB)AND128)=0) : POKEDD. 255

9010 X=-((PEEK(PA)AND16)=0):RETURN

The important lines here are 40 and 50, which will be have to be inserted at the point where the game ends and you want to restart it (or where you want some other fire-button-activated activity to begin). The variable DD (equal to 37154 in line 10 above) will probably be established elsewhere in your program, likely at the begin-ning. It might be under a different variable name.

Bulk buy policy

that the club is 300 and growing, computer and software dealers strong hardware are willing to give club members special offers on their products. Until now such arrangements have been on a casual basis and some problems have occurred as a result. To help ensure that the club members are protected in the future, the BULK BUY CONDITIONS outlined below were adopted by the club executive at a recent meeting. The conditions below also keep the club in good standing with Victoria as a non-profit society. If you have any comments or suggestions about these conditions, feel free to corner one of the executive and tell them your story.

 Terms and conditions of offer must be presented in writing to the group through the club executive or a designated representative a minimum of one week prior to the announcement of the offer at a club meeting.

2) Approved offers will be announced at club meetings by an appointee of the club executive but no direct canvassing (e.g. by telephone) of individual members for the purpose of increasing sales is permitted. Further, no promotion will be done by the club to further sales.

3) Terms and conditions of sale must be presented in writing to all purchasers at or before the time of first payment to include a clear statement that the club, club executives, their representatives are not in any way directly involved in the transaction and thereby bear no responsibility or liability for the condition or performance of the product.

4) No distribution of product is to occur at the club meeting without authorization from the club executive committee prior to the club meeting.
5) In relation to bulk pur-

chases, no exchange of cheques, money or credit cards is to occur at any time at club meetings or on the premises of the meeting, no money or cheques

will be handled by the club executive or its representatives in any way.

6) Announcement of a proposed bulk purchase to bulk purchase to the club meeting does not constitute implied or direct endorsement of any product or service by the club, its directors, or its representatives.

7) Preference will be given authorized Canadian dealerships providing full service warranty, and after-sale support for product or service.

CONTINUED FROM PAGE 2

and carried out only when all potential problems have been sorted out. (Note: We have tried a number

of projects recently without this careful planning. Pushed into accepting them because people wanted instant gratification, we are left with events that didn't happen, incomplete records and other problems, exactly as our past experience would have predicted. The methodical approach takes more time and more people, but the benefits are worth waiting for.

4. Problems and complaints examined carefully and completely before any action is taken in response to them. Sometimes the cure is worse than the disease.

Best wishes for the future to the COMMODORE COMPUTER CLUB.

Be patient and take care,

COMMODORE 64™



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DIRECTORY

DISASM

VPUG VIC AB		" AB	2A 49-FILES	309-FREE	REE
SASICODE READ	0	P11	VIC DIS-3	Œ	P8
BASICODE SEND	>	P4	VICLORD-2	ח	P4
SIG LETTERS	۵	P4	VICLORD-4	ח	P8
CHECK DISK	Þ	9d	VIEW BRM	0	P3
JIRECTORY	0	P7	PRG CLASS VIC	0	P4
I SASM	Œ	P4	SEARCHER	0	P11
JISPLAY T&S	D	P1	RELOCATE SCRN	0	P18
ISI	Œ	P4	VIC WEDGE	0	P7
41 STROGRAM	۵	P18	SUPER VICHONZ	Œ	9.d
PERFORM TEST	>	P8	HIMEM SHVER	0	P3
PROGMBL CHARS	۵	P7	VIC RID	9	9.d
SANDOM FILE	2	P14	FRENCH TUTOR	ш	9d
SEQUENTIAL FIL	EU	P3	REL WRITE	2	P7
TSNI NOMYNI	Œ	P3	CHARS@#1C88	0	P.3
TINYMON 1	Œ	9d	PRG FUNCT KEYS	0	P24
/IC DIS-1	Œ	8 A	ADDRESS FILE	0	
/IC DIS-2	Œ	P11	GRAPH PLOT	ш	

POLY TURTLE JXB-1 UXB-2 ZRP P14 P5 P6 P27 P10

MUSIC \$1201 SATELLITE FINDRC PRG CHARACTERS MULTIPLY PRACT SUBTRACT PRACT ADDITION PRACT JIM IN COLOUR BACKGAMMON BILLBOARD LOTTARIO

HI-RES FOURIER S-X TRSHY PIC S-X GARFIELD S-X DESIGN-3 S-X DESIGN-2 S-X DESIGN-4 S-X HI DEMO S-X DESIGN DIGICLOCK USA SONG

0000000000000

JFO PILOT FLIP INST

CHASE FLIP

GOLDRUSH

VPUG VIC AC

BC

68-FILES

0-ALLOCATED

MINI GOLF

INVADERS

CHVERN

60-FREE

BRKOUT PADL

PRIME NUMBERS FOUR IN A ROW

BASEBALL

BUSINESS DEMO MAKING CHANGE

P13

SLOT MACHINE

BRRIN WARP

JUGGLER REVERSE

P13

HIDDEN MAZE

76 TROMBONES

ENTERTAINER

6

SEARCH

SCROLL

PENCIL

PRIME FACTORS

SPACEWAR-1 SPRCEWRR-2

GOBBLE

P14 P10

VISIBLE VIC

CALENDAR

6 94

FREE-FALL

GOBBLE (K)

SPACEWARS STARFIGHT

TRNK VS UFO TANK VS UFO

THUNDERBIRD

THREE OF A KINDG

DIRECTORY

CRYPTOGRAMS

S-X JASPER P S-X COLOUR ROOSP

AC VPUG VIC AD

COMMAND

PETE

920

AD 2A 89-FILES

76-FREE

0-ALLOCATED

S-X TRI-CIRCLE P S-X FAN-TASTIC P S-X SPIRALMANIAP S-X CIRCULINE

S-X RNOZR DMO

S-X DATA DEMO#2P

SLOT MACHINE HIDDEN MAZE

REVERSE

GOLDRUSH (JS)

BRAIN WARP

FLIP INST

PRG CLASS VIC

DIRECTORY

VIC WEDGE

HSER

OTTO 649 CHECKBOOK

RING ART

TE SCRN

3 JACK

CALENDAR MONITOR

CHASE FLIP

GOLDRUSH

FUEL CHASE

ROBOT CHASE UFO LANDING

TOYSTICK DEMO

FILE CLERK TAPEB

RINGER EOL

PAUSE

SCROLL+/-

ARIL LIST TAPE

NUMERIC PAD

5K HI-RES

COPY CAT

MEMORY MUSIC JFO-TANK MAR SPACE SHIPS COUNTER

ENTERPRISE 8K

DISPLAY DEMO

GRAPH PLOT

P10 P13

MEMORY SNAPSHOTA COPY DISK FILESU

RACE

VIC-20 ORGAN ZAPPER

THIK WAR PICT 8

COLOUR MASTER

DOODLE (JS)

80 3

DUTPOST

GUESS 10 SEC

VIC DT

P10

BUBBLE SORT

SORT C

CONTEXT INDEXERU

COPY-ALL DISK

FERM SER-1 FERM SER-2

KEYSORT

JO PASS FILTER

SORT D GOBBLE PENCIL

MATHMAN

P12

P14

SHELL SORT

SSSTIMER DESIGNE

PLEX MATRIX E

LOCATED

œ ш

VIC FINANCE

94

THIN WAR P2

BATTLE ZONE SMOOTH MOVE ONE ON ONE

AMORTIZE

CHUNDERBIRD

SPACEWARS

P11

P10 P14 P10 P7

TINY/BASIC RID 82 TRX ONTHRIO

SORT DEMO-2 SORT DEMO-1

VIC DIS-1

0 4 6 6

DISI

VIC VIC

STRING THING

STARFIGHT

P13

INVADERS

CRVERN

TRNK VS UFO MINI GOLF

RELOCHTE SCRN

RNDROID MANHOLE BUG HOP

BASIC INVADER GALACTIC WAR FIRE PART-2 FIRE PART-1

COL/CHAR EDITORP

S-X SUPER PLOT P S-X ALL MY LOVIM S-X SPACE ACE G

S-XMUSIC MACHINM S-X VIC LOGO

S-X DIAMOND

MAKE SKETCH(JS)G

HEXEDIT

RAINBOW CLOCK

History CONTINUED FROM PAGE 2

Gary Skett taught introductory Commodore BASIC starting Commodore BASIC starting February 1983 and Don Lekei gave seminars on the Commodore 64 in April 1983.

Commodore advertising often focuses on education as the position of computing growth, but VPUG offered anyone the garden of computing intelligence. Unleashed from the limitations of scarcity of "computer time", VPUS students made accelerated progress.

When the VIC-20 and Commodore 64 became available, VPUG blossomed with a growth pattern that was truly exponential. Briefly, the 27 members of VPUG in January of 1982 became over 300 members of the Commodore Computer Club by July 1983. The mushrooming was most apparent at the October gathering when Jim Butterfield of the Toronto Pet Users' Group and Doug MacGregor, Commodore's western Canada manager, addressed VPUG. Over half the audience were guests but membership grew 54% the next month. Last year's Pacific Coast Computer Fair was held that month, so the membership surge coincided with that extra

The next stage was expansion to two monthly meetings in December 1982 -- a workshop and a lecture format assembly. Community centres rent for relatively low cost, but to continue the important workshop aspect of VPUG the club procured Killarney school cafeteria for adequate space in mid-1983. This space is several times the cost of the community centre but the workshop is the fertile environment the club needs to continue to flourish.

Since 1979 there has been discussion of incorporation of VPUG to protect members from lawsuits, a problem plaguing some American microcomputer groups that have been accused of software infringement. Documents effecting incorporation with 15 directors were discussed and signed at VPU6 executive meetings in February and March, and on April 22, 1983, Victoria issued incorporation #S-18085 to group, re-named the Commodore Computer Club, under the Societies Act.

VPUG has become a a bit of the nostalgia memory, of history.

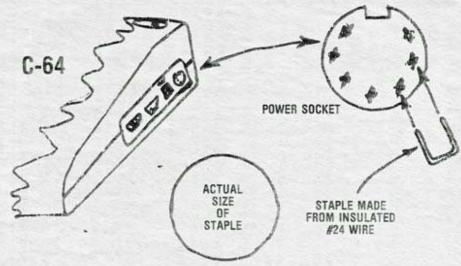
BLURBS CONTINUED FROM PAGE 3

them. Please do not add, change or delete any programs; if you want to make an enhancement to a program, submit a re-written version on a tape or disk to me. You will be credited with the update and your medium returned as stated above.

I hope you enjoy the new release, I enjoyed assembling it. Thanks again to those who donated.

C-64 POWER SOCKET MOI

(TO BE USED WITH THOSE C-64 COMPUTERS THAT HAVE A 4-PIN POWER SUPPLY CABLE)



This modification will prevent the power supply cable from accidentally being plugged in the wrong way. -- This modification can be easily removed if it becomes necessary to use a 7-pin power supply in the future. -- Conti Computers will supply these staples to any of their customers who may have received a C-64 computer with a 4-pin customers power supply.
ALWAYS MAKE SURE THE POWER SUPPLY IS UNPLUGGED BEFORE CONNECTING IT TO THE C-64 AND THE COMPUTER IS DEF!

NEW_VIC-20_PROGRAM_RELEASES

Summarized by Tony Smith, VIC Software Librarian

These programs are available on of your mortgage new disk VIC AE as well as on BUTTERMORT -tape. UFO PILOT -- Avoid warplane and your own trail (joystick) BOGGLER -- Place stones on grid and capture (joystick) A DAY AT THE RACES (G) -- Place yer bets and ... they're off! RHIND -- Sneak home before the rhino gets you. SCALES -- Select scale and play notes (keyboard) Pilot language PILOT BK -program (8K required)
TINY PLAN 8K -- Electronic
spread sheet (8K required) MORSE TRAINER -- Teach yourself Morse code 4 COLOUR MAP -- Problem solving, colour areas SCREEN SW -- ?? Ask Larry P.!! PETALS/ROSE -- Test yo -- Test your deductive powers ROMPEEK -- Check into your chips DISASSEMBLER -- Machine Language BASIC NIGHTMARE -- Just for fun. give this to a "friend". MORE SOUNDS + --More menu-driven sound effects COLOUR EATER -- Great graphic demo CRITTER -- Interesting fellow ... use him in a game program S-X JOYWRITER -- Magic screen slate (joystick, Super Expander) S-X HI-RES DEMO -- Hi-res graphics using Super Expander S-X CALCULART -- Larry Phillips' famous geometric designs S-X POLYGONS -- Many-sided figures perform calesthenics PERMUTE SBRTN -- Permutate any word, great for encrypting S-X AMORTGRAPH -- Print a graph

BUTTERMORT -- Butterfield's mortgage calculator, prints hard COPY LOAD/RUN DISK -- Load and run PRG from directory PRG LOCATOR -- Finds the start address of a program (disk) VICWORD -- Assigns keywords, statements and functions to keys CHAR GEN 2.0 -- Another good character set modifier
JOYSTICK TESTER -- Find out what happens when you use your J.S. VIC INVADERS --- More little guys raining down on your city BIG CHARACTERS -- Interesting display of large characters PONS -- Game which used to be found in pubs S-X BOUNCER -- Moving graphics S-X CLOCK -- Digital clock HARMONIZER ---Demonstrates harmony in three voices STEAL MONEY -- Elementary dishonesty learned easily KALEIDOSCOPE-3 ---Another brilliant display of color in symmetry VIC MAIL -- Mail list organizer FUEL 1C -- Analyze auto fuel costs METEDR MAZE -- Dock your ship, avoid meteors ASTERDIDS -- VIC version of arcade game WALL -- Destroy wall for points BUDGET-1 -- Simple home budget analysis GUNFIGHT -- Shoot your buddy RUSS'N ROULETTE yourself MAIL LIST -- Updated mail list program prints labels and lists DISC SWAP -- Makes disk copies using a single drive (Great!)

A COMPLEAT GUIDE TO MACHINE LANGUAGE PROGRAMMING ON THE PET

BY HAROLD

was spending as much time on the PET as she was - first learning BASIC the PET has provided many people with their introduction to computers. that she could use it for word processing. The fascination of having that machine around the house proved too much for me, and soon I was My wife (who is a novelist) bought our PET a couple of years ago so BROCHMANN and then getting more and more versatile with BASIC, and finally delving into the mysteries of PEEKs and POKEs. ntroduction

with my background they didn't help very much. It seemed that the books As time went on I became increasingly aware that there was something called MACHINE LANGUAGE. I bought several books on the subject, but which were available all started off with the assumption that the reader already knew far more than I did.

loining the local PET USER'S GROUP turned out to be very good idea, introduced to the mysteries of machine language programming. It has and through regular contacts with "expert amateurs", I was slowly been a long, frustrating and rewarding process. The purpose of this book is to save the reader time and frustration in GETTING STARTED with PET machine language. It is intended to help the beginner over the first, most difficult hurdles.

proficient with BASIC, and that he is now ready and anxious for another we will start with the assumption that the reader is reasonably challenge.

Some Background to AL

POKEING AND PEEKING [1-1]

many BYTES free. Each of these bytes constitute one unit of MEMORY. The when you first turn a PET on, you are told that there are so and so number varies, depending on what size memory your computer has. Each byte in the computer has an address which identifies it. The first byte has address O (zero). The last byte has address 65 535. Each of these bytes contains a number between 0 (zero) and 255 inclusive. There are two main kinds of bytes ... RAM (Random Access Memory) and ROM Read Only Memory). The difference is that the contents of RAM bytes can easily be changed, while the numbers contained in ROM bytes are burnt in" at the time of manufacture and cannot be altered. ust about the simplest thing that you can do with a PET is to look at the contents of a byte and, if it is a RAM byte, change it.

PRINT PEEK (2000

... will reveal the contents of the byte with address 2000.

POKE 2000,11

... will place the number 11 into addresss 2000.

PRINT PEEK (2000)

... will tell us that the POKE command worked.

only numbers in the range 0 - 255 work. Numbers outside this range are Try poking address 2000 with various numbers. You should verify that considered illegal.

Peck and poke addresses in the range 40 000 to 50 000 to verify that these addresses contain ROM.

MEMORY ORGANIZATION [1-2]

BASIC, while others contain the being displayed on the screen. are used for INPUT and SUTPUT. actually be there. Bytes 32768 to 33767 keep track of what is these areas in greater detail. OPERATING SYSTEM. Yet others functions. Spome of them are We will now examine some of Bytes with addresses above used for INTERPRETATION of 33767 are all ROM which performs a variety of or 16K PET then numbered bytes are shown at the range 1025 to 32757 are PROGRAM This illustration shows what is called a MEMORY MAP. The lower range 0 to 1024 belong to the STORAGE bytes. It is here that BASIC programs are stored. If topof the map which is called not all of these bytes will SAM bytes are divided into UTILITY area. Bytes in the three groups. Bytes in the the bottom of memory! you have an 8K

SYSTEM MEMORY MAP

0000-000FF	RAM	System page zero variables
0100-01FF	RAM	6502 hardware stack area
0200-029F 02A0-03FF	RAM	BASIC input buffer System absolute variables
0400-7FFF 0400-3FFF	RAM	32K CBM BASIC text area 16K CBM BASIC text area
8000-87FF 8800-8FFF	RAM	CRT display RAM User I/O address space
9000-AFFF		User ROM User I/O
B000-E7FF E800-EFFF F000-FFFF	ROM	BASIC Interpreter System I/O Operating System

TO BE CONTINUED IN FUTURE ISSUES...

