6809 EXPRESS

The Official Publication of the
PENN-JERSEY COLOR COMPUTER CLUB

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SIG MEMBERS INSTALL "FINAL FIX KIT" IN F-BOARD MODELS OF COLOR COMPUTER

By Reinhold Radke

Several members of Penn-Jersey Color Computer Club have installed Radio Shack's "FINAL FIX KIT" to F-Board models of the Color Computer.

The final fix is supposed to eliminate random characters appearing on the screen in the second and ninth columns within 30 minutes after power-up and the screen locks up. As one having had the problem since I bought my CoCo four years ago, I guess it works since I haven't had any problems after installing the final fix kit at the Hardware SIG meeting in June at Jerry Behler's house.

The final fix kit is AX-7089 and costs $14.99 plus $1.50 for postage and handling from Radio Shack National Parts Department, 900 East North Side Drive, Forth Worth, Texas 76102 (817) 870-5600.

The kit comes complete with a small PC board (see photo) and all the instructions needed to do it yourself as can be attested to by Jerry Behler, Paul Eckhart, Tom Castronuova and myself. Only one question remains and that is what about the coupon which comes with the kit explaining to Radio Shack Service Centers "DO NOT CHARGE the store or customer for this modification." (In photo if it can be read.) How about it Ed Juge?

Anyhow, now for the instructions published here to show you how simple it is and for anyone else in other clubs who receive this newsletter.

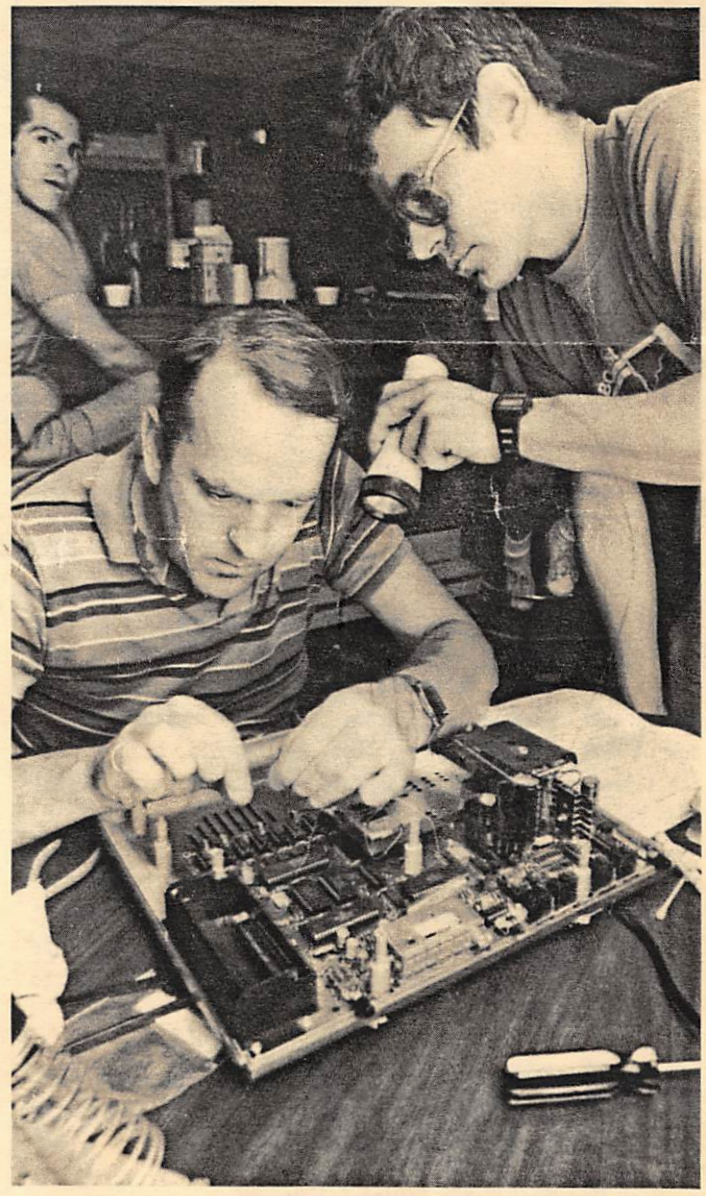
PROCEDURE

You will need the following equipment:

1. Final fix PCB kit AX-7089 (catalog no. 26-3003B).
2. Soldering equipment

Some machines may contain an earlier modification characterized by a jumper from U18 pin 18 to a feed-through near U9 pins 35 and 36. If this modification is present it must be partially removed.

Continued on page 2



Jerry Behler assists Paul Eckhart by holding flashlight.

CLUB PICNIC IS THIS SUNDAY JULY 27

SIG MEMBERS INSTALL "FINAL FIX KIT" IN E-BOARD MODELS OF COLOR COMPUTER

Continued from front page

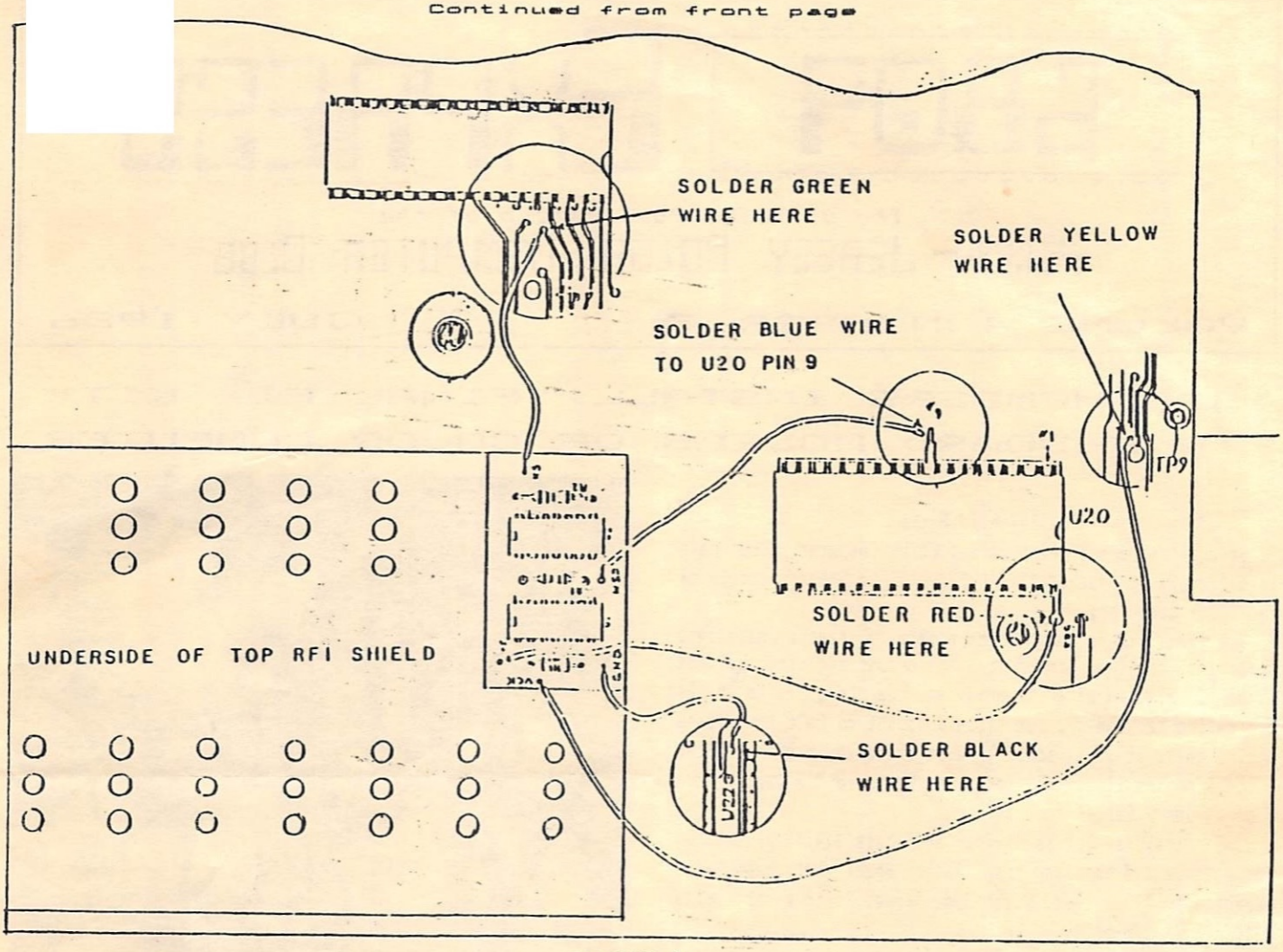


FIGURE 1

If the earlier modification is NOT present, proceed directly to STEP 1.

A) Desolder and reove the jumper from U18 pin 18 to the feedthrough. Remove U18 from its socket and bend pin 18 down. Place U18 back into socket, re-inserting pin 18 into the socket. It may be necessary to replace U18 if pin 18 has been cut.

B) Repair the trace cut to the left of TP7. Carefully scrape the green coating from boths sides of the trace cut. Be careful not to damage any other traces. Solder a short length of hook-up wire or bare wire wrap wire across the cut. Be careful not to make any accidental solder bridges to any other traces.

STEP 1) CUT THE FOLLOWING on the COMPONENT side of the PCB:

A) Cut the trace going to pin 5 of R64. R64 is the resistor pack near pin 1 of U18.

STEP 2) PREPARE U20 FOR MODIFICATION:

A) Remove U20 from its socket, bend pin 9 of U20 upwards, and reinsert U20 into its socket with pin 9 bent up.

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CLUB PICNIC IS THIS SUNDAY JULY 27

6809 EXPRESS
PENN-JERSEY COLOR COMPUTER CLUB

The "6809 EXPRESS" is the official monthly publication of the PENN-JERSEY COLOR COMPUTER CLUB. The club is based in the greater Lehigh Valley area of Northeastern Pennsylvania including sections of Northwest New Jersey. Any club or non-profit organization may reprint any part of the newsletter as long as credit is given. PJCCC will gladly exchange newsletters with any other computer club. For any written correspondence send your request to EDITOR, 6809 EXPRESS, Penn-Jersey Color Computer Club, P.O. Box 2742, Lehigh Valley, Pa. 18001.

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SAVE THOSE PROGRAMS FROM BAD CASSETTE TAPES

You do not have to lose the whole BASIC program on a tape if you use the following program and use a 64K CoCo. If you have a Basic program that will not load, run the program listing below and then CLOAD the bad tape. When and I/O error is encountered, the code up to the error can be saved to tape as an ASCII file by typing CSAVEM"filename",A. Then turn the CoCo off and on and reload the ASCII file and edit it.

```
10 REM ENTER 64K MODE
20 FOR I= 32382  TO  32407
30 READ X
40 POKE I,X
50 NEXT I
60 EXEC32382
70 CLS:PRINT:PRINT"BASIC NOW IN
RAM"
80 DATA  26, 80, 142, 128, 0, 16
6, 132, 183
90 DATA  255, 223, 167, 128, 183
, 255, 222, 140
100 DATA  255, 0, 38, 241, 183,
255, 223, 28
110 DATA  175, 57
120 REM DISABLE TAPE ERROR DETEC
TION
130 POKE&HA639,&H1F
140 POKE&HA63D,&H1B
150 POKE&HA64F,&H9
160 POKE&HA73F,&H20
170 POKE&HA4F8,&H7F
180 POKE&HA4F9,&HFF
190 POKE&HA4FA,&HDE
200 POKE&HA4FC,&HAC
210 POKE&HA4FD,&HE9
220 POKE&HA68B,&H12
230 POKE&HA68C,&H12
240 POKE&HA68D,&H12
250 PRINT:PRINT"warning:CYCLE PO
WER BEFORE DOING NORMAL TAPE I/O
: THE ROUTINES  HAVE BEEN ALTER
ED"
260 PRINT"WHEN YOU GET AN I/O ER
ROR, YOU  MAY LIST THE PROGRAM,
BUT DO NOT TRY TO EDIT IT!  SAVE
 IT TO TAPE AS AN ASCII FILE, CY
CLE POWER,  LOAD THE NEW TAPE, T
HEN YOU MAY EDIT IT!"
261 END
270 NEW
```

COMPUTER BRIEF

Serial transmission - is a method of information transfer in which each of the bits comprising a character is sent sequentially on a single circuit.

KINDERGARTENERS LEARN FASTER

Kindergarten pupils who use personal computers pick up reading more quickly than their low-tech counterparts. That's the conclusion of a five-month study by Stanford University researchers. The researchers found that 5-year-olds who used computers scored twice as high on reading aptitude tests than those who didn't use computers. And pupils who used PCs at home and at school scored almost six times higher. But students who had computers at home and didn't use them in school scored the same as those students who had no computers at home.

REPEAT KEY FEATURE FOR TELEWRITER-64 USERS

Here is a repeat-key feature for all 64K Telewriter-64 users. Just make the following additions to your boot program (use a back-up copy only). If your dis drive will handle 6ms, then include line 310 (DOS 1.0 or 1.1 versions).

```
305 POKE&H94A1,57:POKE&H94A2,0:P
OKE&H94A3,0:POKE&H94A4,&HBD:POKE
&H94A5,PEEK(&HA000):POKE&H94A6,P
EEK(&HA001):A=&H94A7
306 READA$:IFA$<>"X"THENPOKEA,VA
L("&H"+A$):A=A+1:GOTO306
307 POKE&HA000,&H94:POKE&HA001,&
HA4
310 POKE&HD6CD,0:POKE&HD723,20:'
FOR DOS 1.0:'POKE&HD7C0,0:POKE&H
D816,20:'FOR DOS 1.1
400 DATA 34,6,27,F,B1,94,A2,27,1
1,C6,1F,F7,94,A3,B7,94,A2,20,15,
B7,94,A2,35,6
410 DATA 4D,39,81,C,27,F5,7D,94,
A3,27,5,7A,94,A3,6F,E4
420 DATA CC,FF,FF,FD,1,52,FD,1,5
4,FD,1,56,FD,1,58,20,DD,X
```

Program Listing 1. Repeat-Key Feature

COMPUTER BRIEF

A single-density drive stores information at the rate of 2,768 bits per inch, while a double-density drive stores information at 5,876 bits per inch. Single-density disks cannot handle the CoCo's higher recording density.

"COCO DEN"

215-866-1805

STATUE OF LIBERTY DONORS REMEMBERED IN DATA BASE

People who donated money for the restoration of the Statue of Liberty and Ellis Island have their names stored in a computer data base and anyone can use it to look up who donated funds.

Two AT & T computer terminals sit on Liberty Island, hooked to a mainframe computer at AT & T's Bell Laboratories in Short Hills, N.J. Anyone can use the terminals by folowing color-coded instructions. The data base stores full names and home towns, so the next time you're on Liberty Island, check out the terminals to see if any of your far-away relatives or family contributed or find your own name and hometown on the list.

GOVERNMENT TO CHANGE COMPUTER CODE

Continued from page 3

to both the sender and the recipient. The two are used together in an intricate mathematical calculation, performed by specially designed computer equipment, to encode and decode the text.

There are millions of possible key combinations and the keys are changed frequently by users of the system.

Security experts saythere have been no known successful efforts to break the algorithm, known at "Data Encryption Standard." But it is widely believed that new high-speed computers could unlock the "key" by trying the millions of possible combinations and N.S.A. officials have said privately that they do not want to entrust a rising volume of sensitive data to a coding system whose major elements have been widely published for some time.

Details of the new system are still unclear, but experts who attended a conference on data security recently on the west coast, say that unlike the old system, the new one will not be algorithm will not be publicly available and instead will be buried in computer chips manufactured to N.S.A. specifications, and encapsuled so that any effort to read the code would destroy the chip.

COMPUTER BRIEF

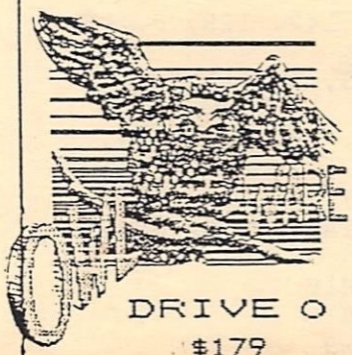
Synchronous - transmission is the constant time interval between successive bits, characters, and events.

Asynchronous - is the variable time interval between successive bits, characters, or events. In asynchronous data transmission each character is individually synchronized by using one start and one or more stop bits.

Start Bit - the first element of a character in certain serial transmissions, used to permit synchronization.

Stop Bit - the last element of a character in certain serial transmissions, used to insure recognition of the next start bit.

JULY 27 MEETING IS PICNIC AT HISTORIC HUGH MOORE PARK



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Reinhold Radke, Editor

WARREN SEARFOSS

P-J

INSTRUCTIONS TO USE COCO DEN'S

NEW "COLOR BBS" SYSTEM

COCO DEN BBS - (215) 866-1805

COCO DEN BBS- (215)866-1805 Jim Mangan- SYSOP
Using "COLOR BBS" software copyrighted 1986 by FOUR STAR SOFTWARE
July 1, 1986

MAIN MENU

<T> Terminate call.
<E> Enter mail.
<R> Retreive mail.
<S> Special funtions.
<D> Display time.
<C> Enter command mode.
<P> Page the Sysop.
<N> Not for novices.
<U> System utilities.
<H> Help/Files menu.

The CoCo Connection - Help File

This BBS has two operating modes: command mode and menu mode. In command mode you use single word commands, while in menu mode you use single letter commands. The following is a description of each of the commands. It is presented in a menu by menu format. The title of each menu is listed, and then the commands available from that menu are described.

Beside each letter is the command that should be used in command mode to perform the same function. For example, to exit use the T command from the Main Menu, or the QUIT command from command mode.

MAIN MENU

T - TERMINATE CALL
Use this function to log off the BBS. The BBS will display a log off message, and will then disconnect the phone line.

E - ENTER MAIL
Transfers you from the Main Menu to the Message Functions menu.

R - RETRIEVE MAIL
Transfers you from the Main Menu to the Retreive Mail menu.

S - SPECIAL FUNCTIONS
Transfers you from the Main Menu to the Special Functions menu.

D - DISPLAY TIME
Displays the current time and date and the total time you have been loged on.

C - ENTER COMMAND MODE
Transfers you from menu mode to command mode. Use the command "MENU" to return to menu mode.

P - PAGE THE SYSOP
Pages the Sysop to enter chat mode.

N - NOT FOR NOVICES
Transfers you to short menu mode. In this mode only short form menus are displayed. Use N a second time to return to full menu mode.

H - HELP/FILES MENU
In menu mode, "H" transfers you to the Help/Info files menu. In command mode, HELP displays this help file. Note that in menu mode this option appears at the bottom of each menu so you may transfer to the Help/Info menu from any other menu.

MESSAGE FUNCTIONS MENU

C - CREATE
Clears the message buffer and allows you to enter a new message. See "MESSAGE FUNCTIONS" (below) for more detail.

L - LIST
Displays the message in the message buffer.

E - EDIT
Allows you to edit the message buffer. See "MESSAGE FUNCTIONS" (below) for more detail.

A - APPEND
Append works the same as CREATE except that the message buffer is not cleared, and any text entered is added to the end of the buffer.

S - SEND
Sends the message in the message buffer to another user. In menu mode you will be prompted for a user ID. In command mode type SEND, a space, and the ID.

P - POST
Takes the contents of the message buffer and "posts" it in the general mail. The system has 5 boards, or general mail sections, which can be accesed via the BOARD command.

B - BOARD
Allows you to change boards. There are 5 boards, numbered 1 to 5. In menu mode you are prompted for the number of the board you wish to transfer to. In command mode, enter the number after the command (ex- "BOARD 2"). All functions that access the bulletins (READ, POST, etc) use the board selected by this function. When you first log on, you will be using board 1.

RETREIVE MAIL MENU

R - READ
Read a message in the general mail. In menu mode you will be prompted for the message number. In command mode, type READ, a space, and the message number.

S - SCAN
Works the same as READ above, except it only displays the message titles.

K - KILL
Kills a message in the general mail that was posted by you. You can only kill messages that you posted. In menu mode you will be prompted for the message number. In command mode type KILL, a space, and the message number to kill.

F - MINE
In menu mode, this command searches through the current board for any messages posted by you. The title of each message you posted will be displayed and you will be able to KILL (delete) it or skip it (leave it alone). In command mode, the command "MINE" displays the numbers of any bulletins posted by you (in the board you are currently using).

P - MAIL
Displays any messages in your mail box (private mail).

B - BOARD
See description above.

SPECIAL FUNCTIONS MENU

U - USERS
Displays a list of the current users and their ID's.

L - LOG
Displays a list of previous callers.

P - PARMS
Allows you to alter your parameters. See USER PARAMETERS below for more information.

S - FIND
The same as USERS except it allows you to search for a specific name. In menu mode you will be prompted for the string to search for. In command mode type FIND, a space, and the string to search for.

U
Transfers you to the Upload/Download menu.

HELP/INFO FILES MENU

H - HELP
Allows you to view a help file. In command mode entering HELP displays this file. At the end of this file, a description is given of how to obtain additonal help in command mode.

I - INFO
Allows you to view an information file. In command mode type INFO, a space, and the name of the file to display. Or, simply type INFO by itself to dislay a directory of the INFO files.

UPLOAD/DOWNLOAD MENU

F - FILES
Displays a list of files available for download.

U - UPLOAD
Upload allows you to send a file from your computer to the BBS. Two protocals are available: XMODEM and Text Upload. From menu mode you will be prompted for a filename. From command mode type UPLOAD, a space, and the filename. The filename can be from 1 to 8 characters long. The BBS will ask if you wish to use XMODEM protocal. If you press "N" Text Upload will be used. When using Text Upload, only ASCII files can be sent and there is no error checking. When you are prompted, begin sending the data. Send a CONTROL-D (4) when done, or a CONTROL-X (24) to abort.

D - DOWNLOAD
The same as UPLOAD except it allows you to download a file from the BBS to your computer.

OTHER COMMANDS

These can only be used from command mode:

? - Displays a list of the commands available.

MINE - Displays the numbers of messages posted by you.

BOARDS - Displays the names of the 5 different boards (general mail sections).

MENU - Transfers you from command mode to menu mode.

MESSAGE FUNCTIONS

Use HELP MESSAGE from command mode, or view the MESSAGE file via the H command from the HELP/INFO FILES menu.

USER PARAMETERS

Use HELP OTHER from command mode, or view the OTHER file via the H command from the HELP/INFO FILES menu.

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MESSAGE FUNCTIONS

Creating a message

To create a message use the CREATE command or C from the Message Functions menu. The CREATE function clears the message buffer and allows you to enter new text. Text is entered in a "free form" format. That is, press ENTER only at the end of a paragraph or to right justify something. The BBS formats your text to different screen sizes so that it will look properly formatted on all terminals, regardless of screen size. However, this only works if you press ENTER only at the end of a paragraph or to right justify. DO NOT PRESS ENTER AT THE END OF EACH LINE!

While entering your message use BACKSPACE to delete the previous character. When you are done entering your message, type "/*<ENTER>".

Adding to your message.

If you find that you wish to add something to the end of your message, use the APPEND command (A from Message Functions menu). This command behaves the same as the CREATE command except that it adds any text that you enter to the end of the message buffer (appends it).

Editing you message.

If you wish to edit your message, use the EDIT command (E from MESSAGE FUNCTIONS menu). The edit function has several sub-commands:

NOTE: While editing a message, a carriage return (ENTER) shows up as a "+".

SPACE - Move forward one character in the message buffer.

BACKSPACE - Move backword one character in the message buffer.

D - Delete the character under the cursor.

C - Change the character under the cursor. After pressing C, enter the new character.

I - Insert into the message buffer. After pressing I, enter the text to be inserted. Backspace may be used, as may ENTER. When you are done, send an ESCAPE code (SHIFT-UP ARROW on the CoCo keyboard).

S - Search for a character. After pressing S, enter the character to search for. The cursor will move to the next "match".

Q - Use Q to exit edit mode.

To repeat a command, enter the number of times to repeat it followed by the command. For example, to delete 20 characters type "20D". Note that the edit function is basically the same as the BASIC command EDIT on the CoCo.

Sending your message to another user.

After you have entered your message, you can send it to another user via the SEND command (S from Message Functions menu). You MUST know the ID of the user to which you wish to send your message. In command mode type "SEND XXX", where XXX is the ID of the user you wish to send your message to. In menu mode you will be prompted for an ID. The message will be placed in that users private mail box, and he will be able to read it next time he logs on.

Structure of the general mail.

Unlike private mail, everyone can read the general mail, and everyone can post messages into the general mail. The general mail is divided into 5 sections, or boards. The Sysop decides how many of these sections you have access to. To change boards, use the BOARD command (in menu mode: B from Message Functions or Retreive Mail menu).

To display the names of the 5 different boards, use the BOARDS command or in menu mode use the B command and enter "?" for the board number when prompted. When you use any general mail command (described below) it effects the current board as set by the BOARD command.

Reading messages in the general mail.

In command mode use the READ command. Follow the word READ by a space and the number of the message to read. If you do not specify a message, then the first message in the general mail that you have not read will be displayed. In command mode use the R command from the Retreive Mail menu. You will be prompted for a message number. Press ENTER to read the first new message (the same as the READ command). After the message you selected is displayed, you will be presented with three options. You can enter Q to stop reading, N (or ENTER) to read the next message, or P to read the previous message.

Scanning messages in the general mail.

Use the SCAN command from command mode, or S from the Retreive Mail menu. Scan works the same as READ except that it only displays the title of each message. As well, scan continues forward through the general mail until it reaches the end or you hit control-x.

Posting messages in the general mail.

In command mode use the POST command. In menu mode use the P command from the Message Functions menu. In either case you will be prompted for a title for your message. Your message will be added to the end of the general mail file and will be "titled" with your name and ID, the date, and the title you entered.

Killing messages you've posted.

It is asked that ocasionaly you kill off messages you have posted in the general mail to make room for new messages. If you are in menu mode you have two options. The K command from the Retreive Mail menu prompts you for the number of the message you wish to kill. You can only kill messages that you posted. The F command from the Retreive Mail menu scans through the general mail for messages that you posted. The title of each message you have posted is displayed, one at a time, and you are asked if you want to kill the message, or leave it alone. In command mode, use the MINE command to display the numbers of messages you have posted. The KILL command allows you to kill a message. Type KILL, a space, and the number of the message to kill.

OTHER INFORMATION

The operating modes.

In this BBS there are two operating modes, menu mode and command mode. In menu mode you use the system by going from menu to menu and entering single letter commands. You are prompted for all input. In menu mode you have a choice between short menu and long menus. This can be toggeled via the N command from the MAIN MENU. In short menu mode, a highly shortened menu is displayed. In command mode you use the system via single word commands. For commands that require information of some sort, the information can be placed following the command. For example, to send mail to the user with an ID of 123, you can enter "SEND 123". Command mode is harder to use, but it allows direct access to all the commands. That is, you do not have change menus to use the different functions.

The use of IDs.

In this BBS everyone is identified by their ID. An ID is a 3 character "code" that is used whenever you want to send mail to another user. The USERS command (U from SPECIAL FUNCTIONS menu) allows you to view the names of the current users and their IDs.

User parameters.

The PARMS command (P from SPECIAL FUNCTIONS menu) allows you to change your personal parameters.

User ID - Enter a new 3 character ID, or press ENTER for no change.

Password - Enter a new password (up to 15 characters) or press ENTER for no change. Make sure you remember your password as you can not log onto the BBS without it.

COCO DEN BBS — (215) 866-1805

For the following inputs the current setting will be displayed in brackets after the prompt. Press ENTER for no change.

LF after CR - This allows you to tell the BBS to send a line feed after each carriage return. Some terminal programs require this.

Screen Width - In order for messages to look properly formated on your screen you must enter the exact number of characters on each line of your screen.

Home cursor - Enter the character that homes the cursor on your terminal.

Clear Screen - Enter the character the clears the screen on your terminal.

Upload Prompt - Enter the character you wish the BBS to send when it is ready for input. This can be used to tell your terminal that the BBS is ready for input.

Command stacking in menu mode.

In menu mode you can "stack" your commands. That is, if you wanted to go from the MAIN MENU to the SPECIAL FUNCTIONS menu and then list the user log you could type "S<ENTER>L<ENTER>", or you could stack the commands and just type "SL<ENTER>". This stacking can also me used when sending private mail. That is, if you are at the MAIN MENU, you could type "ES123<ENTER>" to send the message buffer to the user with an ID of 123. Basically, instead of entering commands one at a time you can stack them all together and preform the entire sequence in one shot.

Other stuff.

When you are viewing a message, listing the user list/user log, or scanning the general mail you can hit CONTROL-X (CLEAR-X from CoCo Keyboard or DOWN ARROW-X with MIKEYTERM) to abort the function.

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BELL LAB ROBOTS CATCH BOUNCING PING-PONG BALLS

Robots at AT & T Bell Laboratories in New Jersey are catching ping pong balls on the first bounce and responding to sentences of normal human speech.

"The purpose of our research is to allow robots to plan and act in a dynamic and changing world," said Russell Anderson, a Bell Lab scientist.

The ball-catching robot at Bells' Holmdel research lab tests three-dimensional vision and responsiveness. The system uses two pairs of television cameras to monitor the half-second flight of the ping-pong ball. A micro-processor computes the trajectory and relays that data to the robot arm, which moves into position to catch the ball in a cup.

The voice-activated robot at the Murray Hill lab tests sensory perception and speech recognition. It understands a 51-word vocabulary and has an ultrasonic range-finder to locate objects. Soon it will have a camera to enhance its "vision" and a synthetic voice so it can converse with controllers.

Pretty soon one of these robots will run our Penn-Jersey Computer Club meeting in the one room at NCACC and demonstrate how to play ping-pong in the other room.

RETURN YOUR QUESTIONAIRE TODAY

6809 EXPRESS

The Official Publication of the

PENN-JERSEY COLOR COMPUTER CLUB

VOLUME 6 NUMBER 2 FEBRUARY 1988

Pete Unks discusses the use of CoCo Max at last month's PJ-CCC meeting.

PLEASE RETURN YOUR SURVEY SHEETS

IT'S YOUR CLUB - TELL US WHAT YOU WANT FROM THE CLUB.

A couple of months ago, a survey sheet was included in the monthly newsletter for all members to fill out and return to Tom Castronuova. The survey EVEN HAD A STAMP on it to facilitate your mailing it back. Less than ten have been returned from 55 that were mailed out.

Please - it's YOUR club, you tell the executive committee what you like to get out of the club - FILL OUT that questionaire TODAY and fold it , tape it and put it in a mail box so that Tom can get them before the next executive board meeting the first week in March.

IT IS IMPORTANT - because the survey sheet will show the executive board the information it needs to prepare programs which YOU ask for.

If you can't find your survey sheet, pick up a blank at this Friday's meeting and turn it over to Tom during the meeting so that the executive board has SOME information it needs for its meeting.

PLEASE RETURN YOUR SURVEY SHEET.

If you don't rememeber what it looks like a reproduction is printed inside.

LAST CHANCE THIS MEETING -----
TO RENEW YOUR MEMBERSHIP IN PJ-CCC

PLEASE RETURN

YOUR SURVEY SHEETS

PENN - JERSEY
COLOR COMPUTER CLUB

P.O. BOX 2742
LEHIGH VALLEY PA 18001

THE PENN-JERSEY COLOR COMPUTER CLUB
SURVEY SHEET
YEAR 1986

The executive committee of the PJCCC would like YOU to take the time to answer the below questions. This survey will help the officers to guide the club thru the next year.
Simply answer the questions, fold the form and drop it in the mailbox TODAY. (It already has a stamp on it)

Thank you.

Thomas J. Castronuova
PJCCC Treasurer

1-WHAT TYPE OF SOFTWARE ARE YOU USING NOW?
Canned or Software written or modified by yourself.(NAME).

2. WHAT WOULD BE A TOPIC YOU WOULD LIKE TO SEE A PRESENTATION ON?

3. WOULD YOU LIKE TO SEE ANOTHER COMPUTER DEMONSTRATED AT THE REGULAR MEETING?. YES OR NO.
(CIRCLE ONE)

4. WOULD YOU LIKE TO SEE A "SOCIAL MEMBER ONLY CLAUSE ADDED TO THE CLUB CONSTITUTION.
(YES OR NO)

5. WOULD YOU LIKE TO SEE A CLUB PICNIC IN JULY OR AUGUST. (YES OR NO)

6. HOW WOULD YOU CHANGE THE CLUB TO MAKE IT MORE INTERESTING.

"This is what you'll get when you combine the graphics."

DISK SALE CONTINUES

The Penn-Jersey Color Computer Club's disk sale continues for 50 cents a disk, 25 disks for $12.50. The disk are all double sided - double density with a disk jacket.

Profits from the disk sale benefit the club in the purchase of equipment, etc. So don't forget, bring some money along this Friday, February 26, for the February meeting.

MINUTES OF JANUARY 29th MEETING

President Eckhart opened the meeting by inviting all to Perkins after the meeting. The minutes were accepted as printed in the newsletter. The Treasurer's report was also accepted.

OLD BUSINESS:
The questionnaire report will be placed on hold until more returns are received. At present only 7 out of 53 have been returned. Some items we need input on are: associate membership, where we are going as a club, how is movement to "other" machines going to affect us.
The library inventory will appear in next month's newsletter.
Disks are still for sale; fifty cents each.
This is renewal time for membership. Dues are $12.00 per year. Send your checks to Tom.

NEW BUSINESS:
There will be an Executive Board meeting on Friday, March 4th at Roni's.
Members are reminded to sign up for equipment. We are still looking for the club tape player.

The meeting was adjourned and an interesting and informative talk and demonstration on Coco Max was given by Peter Unks.

Submitted by:
Mary Brown

RENEW YOUR MEMBERSHIP THIS MEETING

6809 EXPRESS
PENN - JERSEY COLOR COMPUTER CLUB

The "6809 EXPRESS" is the official monthly publication of the PENN-JERSEY COLOR COMPUTER CLUB. The club is based in the greater Lehigh Valley area of Northeastern Pennsylvania including sections of Northwest New Jersey. Any club or non-profit organization may reprint any part of the newsletter as long as credit is given. PJCCC will gladly exchange newsletters with any other computer club. For any written correspondence send your request to EDITOR, 6809 EXPRESS, Penn-Jersey Color Computer Club, P.O. Box 2742, Lehigh Valley, Pa. 18001.

President - Paul Eckhart
Vice-Pres. - Roni DeGarmo
Editor - Reinhold Radke
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Librarian - Danny Zacharias
Publicity - Frank Tupper
Bulletin Bd. - Jim Mangan

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OBSERVATIONS

by Clyde Gano

Recently the Club Executive Committee put together a questionnaire which was distributed with the 6809 EXPRESS. To encourage replies, the committee even made the return postage available. Yet, at the last meeting, President Paul Eckhart announced that very few replies had been received. Hopefully, by our forthcoming meeting, the number of returns will have substantially increased.

The questionnaire asked a number of important questions and not the least of which was the matter of how to handle the membership of those who purchased other computers to replace the CoCo. It is this question that I am addressing.

Simply put, it appears that some of our members have made the decision to change to MSDOS computers. Obviously the decision is a personal one. The problem is that our club constitution states that, "The membership... shall be composed of such persons who have access to the use of a TRS-80 Color Computer or similar machine." The wording implies that the club is for CoCo users only and I believe that was the original intent. Several of those affected are charter members of our group and, as near as I can tell, each one has contributed greatly to our success by active attendance and participation.

There is little doubt but that the remaining members will be the big losers if these valued friends are no longer considered members in good standing.

One suggestion, which I believe was in the questionnaire, was to amend the constitution to allow the inclusion of associate members. I have no great problem with that except that the term "associate member" seems to imply a sort of second class membership without the right of full participation. Members like Jerry Behler, Bill Jones and Frank Tupper have demonstrated their concern in so many ways that they deserve better than that.

Last week I read an article in the Morning Call about classic car clubs and I noted that a Nova club makes membership available to anyone who "has an interest in Chevrolet Novas".

Therefore, I propose that our membership give prompt consideration to amending Article III, Section 1 to read- "The membership of this organization shall be composed of such persons who have access to the use of a TRS80 Color Computer or similar machine or demonstrates an interest in the TRS80 Color Computer."

In order to move this idea to a rapid conclusion and to satisfy the requirements of Article IX-AMENDMENTS, I further propose that the above be the written notice called for in Section 1 and further that the following be considered the notice required under Section 2:

NOTICE

AT THE NEXT REGULAR MEETING, MARCH 25, THERE WILL BE A VOTE TO AMEND ARTICLE III, SECTION 1 OF THE CLUB CONSTITUTION.

TAKE CARE OF YOUR COCO'S DISK DRIVE

Most of the problems with floppy disk drives stems from improper handling. Although disk drives have become quite dependable, they are precision electromechanical devices, requiring special care. The following list offers some simple but helpful tips to insure a longer life for your disk drive.

DO'S AND DON'TS -

*Store your disks in sleeves when not using them. Dust, fingerprints, and even particles of cigarette smoke can obstruct the disk drive head. Some disks come with a sleeve made of Tyvek, and antistatic material that prevents accidental data loss.

*Don't bend the disk. Bent 5 1/4 inch floppy disks often turn irregularly or not at all, making data storage and retrieval unreliable. The 3 1/2 inch disk on the other hand come in hard plastic cases and cannot easily be bent.

*When placing the disk in the drive, don't insert it quickly or forcibly. If it catches on something, investigate before applying more force and possibly bending the disk.

*Close the drive door carefully - DON'T slam it shut. Doing so causes excessive pressure on the disk and drive heads and could result in premature wear or failure.

*Don't touch the exposed areas of the disk, particularly that area that shows through the drive-head access slot. Fingerprints can affect the reading and writing to the disk. Because they are sticky, fingerprints are especially difficult to remove. Touching the exposed area of the disk can cause scratching which can permanently destroy information and disable the disk.

*Don't store or use the disk in areas with high

Continued on page 4

LAST CHANCE THIS MEETING -----
TO RENEW YOUR MEMBERSHIP IN PJ-CCC

TAKE CARE OF YOUR COCO'S FLOPPY DISK DRIVE *Continued from page 3*

concentration of airborne dust and debris, and don't allow anyone to smoke near disks or computers. Smoke particles can interfere with reading and writing disk information.

*Don't leave disk near sources of strong magnetic fields, including CRT's, motors, high-voltage AC wires, and X-rays like that found at airport security gates. Magnetic fields can wipe out or reduce the strength of the magnetic information on a disk. Research has shown that storing disks on top of your TV, monitor or to the left side of either where the transformer is, reduces the strength of the data slightly - not enough to affect performance most of the time, but why risk it?

*Most manufacturers recommend storing disks at 50 -125 degrees Fahrenheit. For best performance, you should let your disk reach room temperature -nominally 75 degrees - before using them in your system. Never expose disks to sources of direct heat or sunlight - especially never leave them in a car during the summer - this can cause the disk to warp or melt.

*Don't flip your floppy. Many users of single-sided drives cut a second write-protect notch in the opposite side of the disk and flip it over to use the other side. This is bad practice because the jacket liner collects oxide particles, dust, and other debris. When you flip your disk, you reverse the direction of rotation, causing debris that the liner has collected to be swept back onto the disk surface.

*When moving a disk drive, place a protective insert in the drive (or an old unuseable disk) and close the door. This protects the drive from excessive vibration and keeps the heads on dual-drives from bumping each other.

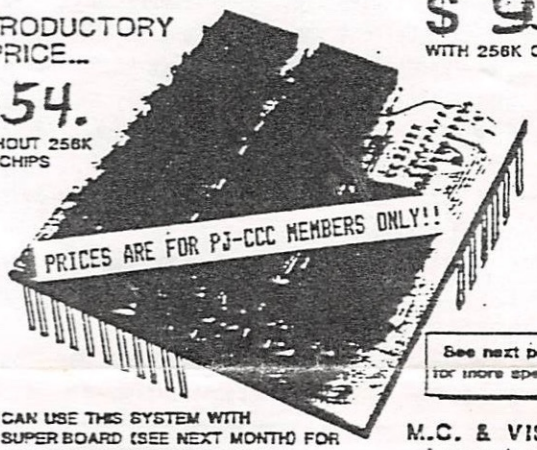
NEW 512K UPGRADE FOR COCO 3

Now available the LR Tech 512K upgrade with all gold contacts and 120 nanosecond 256K chips. Useable as a RAM disk from basic or as large system memory for OS 9 level 2!!!

INTRODUCTORY PRICE...

$54. WITHOUT 256K CHIPS

$ 95. WITH 256K CHIPS



See next page for more specials.

YOU CAN USE THIS SYSTEM WITH OUR SUPER BOARD (SEE NEXT MONTH) FOR A THREE USER SYSTEM UNDER OS9. WORKS WITH OUR HARD DRIVE.

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6809 Express

Penn - Jersey Color Computer Club

Reinhold Radke, Editor

CLYDE GANO

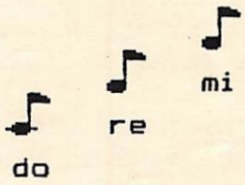
P-J

6809 EXPRESS

The Official Publication of the

PENN-JERSEY COLOR COMPUTER CLUB

VOLUME 4 NUMBER 12 DECEMBER 1986



It's time to be
Wishing you
The MERRIEST
CHRISTMAS
and
The HAPPIEST
NEW YEAR
EVER.

6809 EXPRESS
PENN-JERSEY COLOR COMPUTER CLUB

REVIEWING THE CoCo GRAPHICS DESIGNER

By Paul Eckhart

As a public school teacher, easily making personalized signs and banners has always been one of my desires. I was always envious of my Apple and Commodore friends, since they had the ability to use Broderbund's Print Shop. Ever since Print Shop's appearance several years ago, I have been anxiously awaiting a CoCo version of this fine program.

Computize's Hard Copy and Ray Ligocki's Old-Time Banner Printer (Rainbow - May 1986) provided some stop-gap satisfaction to my desires, but I still looked forward to a Print Shop-type program.

November's Rainbow displayed an ad introducing Zebra Systems CoCo Graphics Designer. The picture showing some of the hardcopy (page 20) indicated a program that would fulfill my banner and sign wishes. Immediately I called Zebra and placed an order. Two days later UPS delivered the package and I quickly powered up my system. After a backup of the original disk, I booted the program and, without taking the time to read the directions, produced my first sign. Although the manual is very handy, the program is extremely user friendly, providing menus for every step along the way. My dreams had been answered; thank you, Zebra Systems.

The program provides an Install Printer option for

Continued on page 2

NEXT MEETING THIS FRIDAY, DEC. 19

MEETING OF NOVEMBER 26, 1986

The November meeting was opened by President DeGarmo who welcomed the approximately 50 members and guests in attendance. The October minutes and Treasurer's report were accepted.

Editor Radke checked on the number of members who did not receive their newsletter.

Nelson Russell reported on the Meadowlands Computer Fair which will be held on November 30. Discount tickets were available. The Club also received information on hardware and software for shortwave reception on the Coco.

Paul Eckhart announced the following new additions to the Club Library from Bruce and Jason: Color Computer Graphics, Getting Started With Basic, Assembly Language, Micro Illustrator, Color Car and Gran Prix.

The Hardware Sig is still in preparation. See Bruce if you know of a good meeting place. Bruce will have his Coco 3 on display after the meeting for anyone who wants an "inside look".

The Pascal Sig will meet on December 2 and 16. Call Jerry first in case there is a meeting place change.

OLD BUSINESS

This is the last meeting to renew or take out a RAINBOW subscription. Remember your mailing label for renewal.

Al reported that there is still candy to be sold. A final report will be made when all money is returned.

The dues ($12.00) for 1987 may be paid to the Treasurer any time before February 1987. When paying your dues please update your application form.

NEW BUSINESS

Jerry Behler chaired the meeting for the election of new officers. He stated that everyone in the member family was entitled to a vote. There were no further nominations from the floor. Reinhold moved that nominations be closed. It was seconded by Chris Sprague. Warren Zerfoss and David Buss were named as vote counters. The following officers were elected.

President - Paul Eckhart; Vice-President - Roni DeGarmo; Treasurer - Tom Castronuova; Secretary - Mary Brown; Editor - Reinhold Radke; Publicity - Don Lauer; Librarian - Nevin Keller.

The meeting was then adjourned. Random Access and an informative talk on OS-9 by Tom Roginski followed.

HS

HILLCREST SHOP
QUICK PRINTING CENTER

For the best in PRINTING
PARTY SUPPLIES
BALLOONS
INVITATIONS
MAGAZINES

see Nelson Russell at

Continued from page 1

iterfacing with the most common printers. The disk includes a set of pre-drawn icons for use in your creations, as well as eight border choices. Two character sets (serif and sanserif) are found on the disk. An additional disk of 120 icons can be purchased separately. (Once I saw what the program can do, I called Zebra to order this disk.)

An Editors proram is included on the disk, enabling you to change borders, the character sets, and to create your own graphics. A unique "grabber" feature enables you to grab portions of a Pmode 4 screen for use in your design. With these features, almost anything you can imagine can be printed on your banner, sign or greeting card.

I haven't said anything about the greeting card portion of this program, since Zebra previously had offered their Greeting Card Designer. Vendors who will take a program of theirs and improve them are much needed in the CoCo kingdom.

If you have a need for this type of program, I urge you to call Zebra Systems at (718) 296-2385 and place your order for the Graphics Designer. At $29.95 you can't go wrong. If you would like to see some of the printouts from the program, come to the next meeting (December 19, 1986) and I'll be happy to show you some of my "creations."

TWO COMPUTER SHOWS JAN. 3-4 IN WILLOW GROVE

Ken Gordon Productions announced two computer shows for January at the George Washington Conference Center in Willow Grove, Pa.

An IBM & Clone show, sale and fleamarket is set for Saturday, January 3 from 10 a.m. to 4 p.m. and a Commodore show on Sunday, January 4th from 10 a.m. to 4 p.m.

Approximately 175 vendor table featuring new and used equipment, software supplies, accessories, parts and books, etc. will be featured. We have a number of $1 OFF coupons for the $7 admission price to the show. See Don Lauer at the meeting if you are interested for directions and discount coupons.

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Bulletin Bd. - Jim Mangen
West Coast Correspondent - Tony Cappellini

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215 AREA BBS PHONE NUMBERS

I HAVE NOT VERIFIED ALL THE BELOW BBS LISTINGS HOWEVER THE ONES MARKED WITH AN '@' ARE CURRENTLY ACTIVE... I BELONG TO & HAVE PASSWORDS FOR THESE SO THEY ARE OPEN TO THE PUBLIC

I TAKE NO RESPONSIBILITY FOR OMISSIONS OR ERRORS ON THIS LIST

ABC CHIPS	@-398-4939
BULLET 80	@-434-2237
GENESIS 2600	@-258-5235
THE HANGOUT	@-683-3995
COCO DEN	@-866-1805
CONTROL TOWER	797-9229
C.O.B.B.	866-6905
ASCII80	@-252-1608
TECHIE BBS	@-252-8867
WAREHOUSE BBS	432-5686
HERMES 64	965-8331
HERMES 84	@-434-3998
5TH DIMENSION	376-7738
INTERNATIONAL 1	???-????
INTERNATIONAL 2	258-1943
INTERNATIONAL 3	865-6741
INTERNATIONAL 4	258-0862
INTERNATIONAL 5	284-1939
INTERNATIONAL 6	865-4389
INTERNATIONAL 7	691-0396
INTERNATIONAL 8	691-6382
INTERNATIONAL 9	837-944?
JELLY BEANS	261-1328
LEHIGH UNIV	758-3000
LEH USER GRP	@-759-1376
MIKES DEN	@-791-5486
SATANS STGHLD	216-321-8913
FNTSIE ZONE	797-8216
MAGI	921-1053
XL EXPRESS	264-1208
NAK-ACK	837-1813
NETWORK #4	@-867-0164
NIGHT OWL #1	258-6575
NIGHT OWL #2	759-7347
NIGHT OWL #3	266-9723
ON LINE MAG.	@-250-9344
PHEONIX SYSTEM	395-4983
RCPM-ATWN	@-398-3937
SLY NETWORK	@-797-9589
THE ASYLUM	776-2099
THE CITADEL	435-7018
CO- SHIRE BBS	866-9573
EQUINOX	250-9467
THE FORM	258-3616
THE INSTITUTE	???-????
MAGIC BBS	432-7223
NOVAS GARAGE	435-7776
PRESS BBS	797-8216
THE PUB	791-5513
THE SHIRE	868-4862
THE SANITARIUM	398-8429
THE THIRD FLOOR	@-435-6811
3 POINT SPREAD	@-395-5072
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Call now for an appointment.....

DON'T FORGET

YOUR DUES

THIS FRIDAY

ED JUGE

Tandy Topics

By Ed Juge
director of market planning
TANDY Corporation/ RADIO SHACK

GIVING A COMPUTER FOR CHRISTMAS?

Be sure and tell your salesperson that the computer will be given as a Christmas gift. As you know, we offer free telephone support through our local Customer Training and Support Centers for 30 days from date of purchase (calls to Fort Worth Customer Service lines are free at any time).

Ask your salesperson for the "dispatch" telephone number of their Training and Support Center. Call them prior to January 5, tell 'em it's a Christmas gift, and your 30-day support will begin after Christmas rather than on the day of purchase.

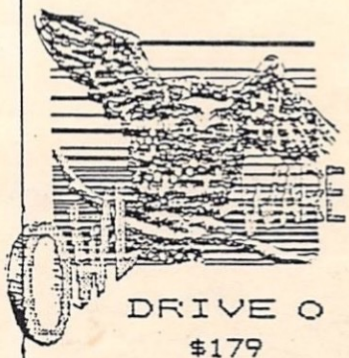
This offer is not valid for Color Computers, Pocket Computers, game software and languages, as those items are not supported through the Customer Training and Support Centers.

THE COLOR COMPUTER LIVES !

CoCo owners had showed signs of worry prior to our announcement of the CoCo 3 in July. You might like to know that indications that during September and October of this year, we sold several times the number of CoCo 2s sold during the same two months of last year. And the 3's are selling at something like four times the rate we had expected.

Excitement among CoCo owners is higher than it's been in years. The CM-8 analog monitors are available now. The 512K RAM upgrades are available at $149.95 plus installation. OS-9 is expected toward the end of December. And following OS-9 will be Multi-View, a rather spectacular window manager we'll tell you more about later.

Don't wait too long if you're planning a CoCo 3 Christmas at your house. It looks like they'll be in very short supply as we get closer to the big day.



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35% DISCOUNT
ON ALL OWLWARE SOFTWARE

DRIVE 0
$179
with R/S controller

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$89
Case & power supply

HARD DRIVE
5 MEG $450
interface included

Fabulous EPSON Drives
Double Sided
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SEE TOM ROGINSKI at meeting or CALL (215)682-6855

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6809 EXPRESS
PENN - JERSEY COLOR COMPUTER CLUB

W. SEARFOSS

Reinhold Radke, Editor

P-J

6809 EXPRESS

The Official Publication of the

PENN-JERSEY COLOR COMPUTER CLUB

VOLUME 6 NUMBER 10 OCTOBER 1988

NOMINATIONS FOR OFFICERS THIS FRIDAY

Nominations for election of officers of PENN-JERSEY COLOR COMPUTER CLUB will be accepted at the October meeting, this Friday, Oct. 28.

Nominations are in order at the October and November meetings with elections to be held at the regular November meeting set for November 25.

According to the PJ-CCC Constitution, an ammended version adopted in the early part of 1987, a nominee for office MUST be a member for a minimum of THREE months in GOOD standing. No member can be a nominee for more than one office.

Nominations must be with the consent of the person nominated.

The responsibilities of officers are described in the following ARTICLE VI taken from the club constitution.

ARTICLE VI
Responsibilities of Officers

Sec. 1-- Responsibilities of President are:

a. Preside over monthly meetings.

b. Appoint and approve committees as needed.

Sec. 2-- Responsibilities of Vice-President are:

a. Assist the president as needed.

b. Preside over meetings if president is unavailable.

c. Assume presidency if office becomes open.

d. File membership applications and inform the newsletter editor of member changes within 30 days, and to provide an updated membership list quarterly to each executive committee member.

Sec. 3-- Responsibilities of Treasurer.

a. Handle all funds to and from the club treasury.

b. Recording of all income and expenditures.

c. Provide a treasurer's report at the monthly meetings.

d. Provide a replacement at monthly meeting if unable to attend to read the treasurer's report.

e. Have records available for audit as requested by the executive committee.

Sec. 4-- Responsibilities of Secretary are:

a. Record and keep the minutes of scheduled monthly and executive committee meetings.

b. Provide a summary of the monthly meetings to the newsletter editor.

c. Provide a replacement at meetings if unable to attend to record the minutes.

Sec. 5-- Responsibilities of Publicity Officer are:

a. Handle all publicity of the club and its events.

b. Supply news media with releases of monthly meetings and special events.

Sec. 6-- Responsibilities of Newsletter Editor are:

a. Publish and distribute monthly newsletter to each member.

b. Handle all paid advertisements from vendors for printing in the newsletter.

c. Provide excerpts of the newsletter to the BBS operator at the discretion of the editor.

Sec. 7-- Responsibilities of Librarian are:

a. Storage of all books, magazines, and software.

b. Provide a quarterly inventory of all library materials for members.

c. Recommend to the membership for the disposition of unusable, duplicated and outdated material in the library.

Continued on page 2

DATABASE MAIL MERGE IS TOPIC OF OCT. 28 MEETING

Clyde Gano will present the topic of database mail merge at the October 28th meeting of the Penn-Jersey Color Computer Club at 7 p.m. at Northampton County Community College

Clyde, a charter member of PJ-CCC has given several excellent talks on various CoCo topics and this should be no exception. So make sure you attend THIS FRIDAY, October 28th at 7 p.m. not only for Clyde's presentation but also for the nomination of officers for the coming 1989 calendar year.

MEETING THIS FRIDAY, OCTOBER 28th

MINUTES OF AUGUST 26, 1988 MEETING

The meeting was called to order by Vice-President Roni DeGarmo. Members and guests were welcomed. The minutes were accepted as printed in the Newsletter. Clyde Gano gave the Treasurer's Report and it was accepted.
Reinhold Radke was in charge of purchasing a new cooler. He also reported on CoCo Clipboard magazine subscriptions: $15.00 for one year, $28.00 for two years. Other advertisements received by the Club were from Spectrum Sports. See Reinhold for special sale details.

OLD BUSINESS:
New disks came up for discussion. The Club will purchase 200. Information was given on the Pyramix Games and Utility.

NEW BUSINESS:
Roni read a letter addressed to the Club from Paul Eckhart in which he announced his resignation as President due to other commitments. Roni will assume the duties of President and a new Vice-President will be appointed if no one volunteers.
Richard Kravitz will chair the Nominating Committee for new officers. All members are urged to become involved in the running of the Club.
Roni gave a brief description of the Club for the benefit of guests and new members.
All members are again urged to submit articles for the Newsletter.
The September meeting will feature the CoCo in Education and Clyde will give the presentation in October on mail merge.
The meeting was adjourned and an informative talk on MISAR was given by Roni.

MINUTES OF SEPTEMBER 30, 1988 MEETING

President Roni DeGarmo called the meeting to order. Guests and members were welcomed. The minutes were read and accepted with corrections. The treasurer's report was read and accepted.
The Librarian reported that the inventory listing is completed and will appear in a future newsletter issue.

OLD BUSINESS:
We are still looking for a volunteer to fill the office of vice-president. The new disks have arrived and will be available at the meetings for 50 cents each.

NEW BUSINESS:
Nominations for office will be held at the October meeting.
Charles Ross mentioned the advertisement received with the disks which gave some very good prices on supplies. Anyone wishing to order should see Roni.
Rainbowfest will be held in Princeton on October 21, 22, 23. Contact other members if you want to car pool it down.
The meeting was adjourned and the education presentation followed.

Submitted by:
Mary A. Brown

NOMINATIONS FOR OFFICERS

Continued from page 1

d. Distribution and collection of materials at monthly meetings.

e. Provide for a replacement at meetings if unable to attend.

Sec. 8-- Responsibilities of the Executive Committee are:

a. Oversee the overall operation of the organization including the genral conduct of meetings, following Robert's Rules of Order.

b. To enforce the article of the constitution.

c. Plan and execute monthly meetings and any other club projects.

d. Settle any disputes.

e. Request a yearly audit of the Treasurer's books.

f. Designate member(s) to pick up and distribute club mail.

"COCO DEN" BBS

215-866-1805

NOMINATIONS

FOR OFFICERS

THIS FRIDAY

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PENN-JERSEY COLOR COMPUTER CLUB
LIBRARY INVENTORY -- 1988

Continued from page 4

- CoCo Drawer 3
- Intersteller Thermonuclear War
- CoCo 3 Patches

COCO 3 DISKS

- Color Connection IV w/Documentation
- CIII Graphics w/Documentation
- Color Scribe III w/Documentation
- TSSAE
- Ultimaterm 4.0
- Programs for CoCo 3 Basics and Graphics
- DISK ONE for Better Graphics On Your CoCo 3 w/Documentation
- DISK TWO for Better Graphics On Your CoCo 3 w/Documentation
- ADOS-3

COCO 2 DISKS

- Spectrum Projects Utility Disk (2)
- "HELPER" by Prickly-Pear Software
- Color DFT (Direct File Transfer) w/Documentation
- Math Menu 1.1
- Scepter Of Kzirgla
- Bjork Blocks w/Documentation
- Electronic Calligrapher
- Elite Comm
- Elite Calc
- WORDCO7D
- Text Editor
- PUZZLER
- Side Wise
- Telewriter 2.0
- Telewriter-64 (2)
- Telepatch
- Telegraphics w/Documentation
- Music Reader
- Musica 2
- Pigskin Predictions 4.0
- Colorkit w/Documentation
- MULTI-PAK CRACK
- Termtalk
- Disk Colorcom/E w/Documentation
- Disk Colorcom/E V3 (2)
- Sector Inspector
- P51 Flight Sim. (2)
- Maillist Ver. 2.0 w/Documentation
- Magigraph w/Documentation
- Graphicom
- Graphicom Part II
- CoCo G.D. Picture Disk No.1
- Picture Disk-#1A (3)
- Screen-64 w/Documentation
- Bait-N-Image V 3.0
- Schematic Drafting Processor
- Master Design
- Finance Pgms #1
- VIP Calc

GUESS WHO?

MEETING

THIS FRIDAY,

OCTOBER 28th

OBSERVATIONS

by Clyde Gano

It will soon be club election time. At our coming meeting this Friday, nominations will be initiated and elections will be held in November.

With no exceptions, all the past and present officers have performed yoemen's tasks in carrying out their duties. And without a doubt, the success of our club or any other organization depends solely on the dedication of the officers and the support of the members.

Wouldn't it be great if we could generate a competitive spirit within the club by having a full slate for every office?

One way to accomplish this would be to think about the election now; don't wait until Friday. Take a close look at each position- think about how well YOU could fill it- volunteer for the nomination- don't be modest- talk about it with your club friends- if there is a slot into which you feel that another member might fit, speak to him or her about it.

SEPTEMBER 1988'S BEST
WHAT'S HOT AT RADIO SHACK

MS-DOS BUSINESS & UTILITIES

1	25-1250	DeskMate 3.0
2	25-1174	Varsity SCRIPSIT
3	25-1171	PFS:Professional File
4	25-1184	Microsoft Works
5	25-1146	Quartet
6	25-1173	PFS:Professional Plan
7	90-0431	DAC Easy Accounting
8	90-3234	PFS:First Publisher
9	25-4112	PageMaker
10	25-1224	Quattro

MS-DOS HOME & EDUCATION

1	25-1304	The Print Shop
2	25-1509	Guide to Personal DeskMate 2
3	25-1151	Where World is C. Sandiego?
4	25-1226	Print Power
5	25-1306	Deluxe Paint I
6	25-1131	Donald Duck's Playground
7	25-1186	FUNdamentals HX/TX
8	25-1188	Typing Tutor IV
9	25-1216	Talking Reader Rabbit
10	25-1311	Party Ware

MS-DOS ENTERTAINMENT

1	25-1215	Flight Simulator 3.0
2	25-1156	King's Quest III
3	25-1150	Space Quest
4	25-1182	Earl Weaver's Baseball
5	25-1183	Thexder
6	25-1219	Gunship
7	25-1133	Black Cauldron
8	25-1125	F-15 Strike Eagle
9	25-1229	Police Quest
10	25-1137	Star Flight

COLOR COMPUTER

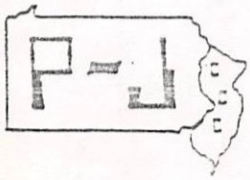
1	26-3095	Color Baseball (ROM)
2	26-3046	Downland (ROM)
3	26-3159	Castle of Tharrogad (ROM)
4	26-3197	Get Start w/Ext. C. BASIC (Book)
5	26-3093	Dungeons of Daggorath (ROM)
6	26-3201	Color Math (Tape)
7	26-3072	Thexder (ROM)
8	26-3273	Home Publisher (Disk)
9	26-3160	AMazing World of M. Mortar (ROM)
10	26-3109	Color SCRIPSIT II (ROM)

6809 EXPRESS

PENN - JERSEY COLOR COMPUTER CLUB

ERIC RHYDER

Reinhold Radke, Editor

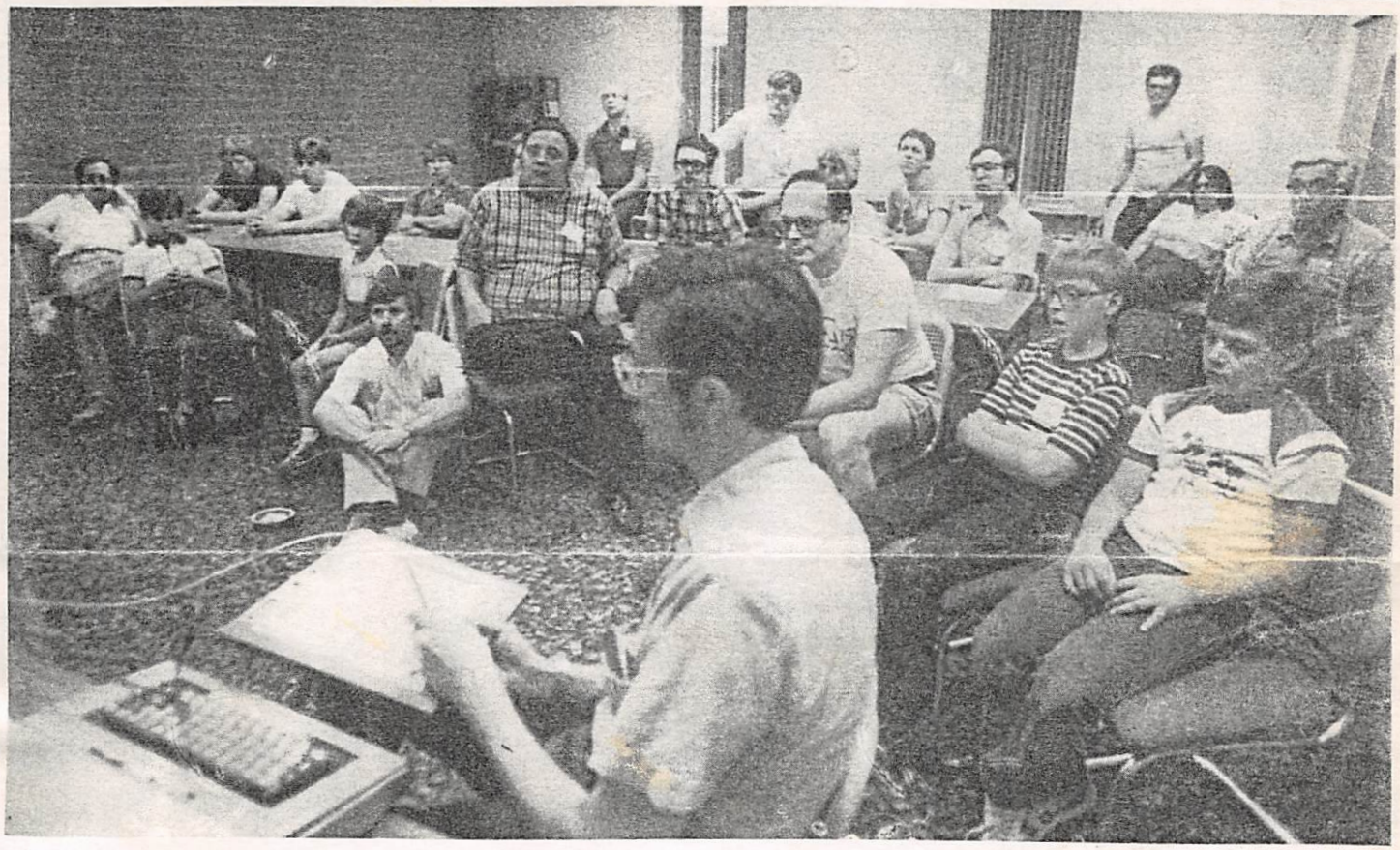


6809 EXPRESS

The Official Publication of the

PENN-JERSEY COLOR COMPUTER CLUB

VOLUME 6 NUMBER 3 MARCH 1988



This is the kind of turn-out we expect at this Friday's meeting. This photo was taken several years ago when Paul S. Hoffman, one of the best-known CoCo graphic artist came to a PJ-CCC meeting and presented a program. Can you remember when?

CONSTITUTIONAL AMENDMENT VOTE SET FOR THIS FRIDAY, MARCH 25 MEETING

This Friday's (March 25) meeting of the Penn-Jersey Color Computer Club will be an important one in that there will be a vote on an amendment to the club's constitution.

In last month's issue of the 6809 EXPRESS, charter member Clyde Gano proposed to amend Article III, Section 1 to read "The membership of this organization shall be composed of such persons who have access to the use of a TRS 80 Color Computer or similar machine or demonstrates an interest in the TRS 80 Color Computer."

The current wording of Article III, Section 1 states that "The membership ... shall be composed of such persons who have access to the use of a TRS 80 Color Computer or similar machine."

Clyde has followed the rules and regulation of Article IX - Amendments by publishing in writing his proposed change to the constitution in regards to membership.

So please be there THIS FRIDAY for the vote on the proposed change.

To continue, the meetings lecture will be presented by Tom Castronuova who will disuss SPREADSHEETS. Tom will discuss VIP Calc and talk in general about spreadsheets - what they are and how to use them. Tom also plans to present a short videotape on spreadsheets if arrangements can be made with the college to have a VCR set-up.

SO DON'T FORGET - THIS FRIDAY, MARCH 25 AT 7 PM.

PJ—CCC LIBRARY INVENTORY — 1988

Daniel Zacharias : Librarian (215) 681-4562

MAGAZINES

"The Rainbow" - July 1981 thru April 1987 (except May, November of 1983: March, April, May, November, December of 1984: July, August, October, November, December of 1985: January, March, November and December of 1986)

"Color Computer News" - January 1982 (#5) thru August 1983 (#23) (except May/June 1982 #9)

"Hot CoCo" - Have June 1983 thru March 1985, February 1986 (except September 1983: March, May, June, and September 1984)

"Color Computer Magazine" - March 1983 thru October 1984

"TRS-80 Microcomputer News" - October 1979 thru June 1984 (except May 1980, October and November 1981, January 1982, December 1983, February 1984) and the Reprints Issue, which includes the first issue to December 1980)

"Color Micro Journal" - September 1983 thru February 1985 (except March, April, and May 1984, and October 1983)

"Color Computer Weekly" - Week #7 (February 18, 1983) thru Week #42 (October 21, 1983)

"Undercolor" - December 10, 1984 to June 30, 1985

"80 Micro" - March, April and June 1986

"Computer Shopper" - March 1987

"Dynamic Color News" - May 1986: February, March, and September of 1987

NEWSLETTERS

"6809 Express" - August 1983 thru Nov 1987 (except June, July, September, November 1985: June and December 1986: June of 1987)

"Color Chronicle" - Volume 2 Number 11

"Tandy Users Group" - April and May of 1986

MINUTES OF FEBRUARY 26, 1988 MEETING

Vice-President Roni DeGarmo called the meeting to order by welcoming the members and guests. The minutes were accepted as printed in the Newsletter and the Treasurer's Report was accepted as read.

The Library inventory is in the process of being prepared and the February '88 issue of Wizard's Castle is a new acquisition.

OLD BUSINESS:
Ten questionnaires have been returned out of forty-nine sent out. Extra copies are available if you would still like to fill one out. The Executive Board will use the input of the questionnaires to plan future meetings.

There are very few disks left from the last order. A motion was made and seconded to purchase 200 more disks.

Members are reminded to pay their dues for this year if they have not done so.

Please check your closets - our tape player is still missing.

NEW BUSINESS:
If you purchased disks from the Club and they are defective please bring them back. We can return them for replacements.

Clyde Gano explained his article in the last newsletter concerning a constitutional amendment. A discussion followed. Members are asked to bring their ideas concerning "social members" to the next meeting when further discussion will be held and a vote taken about amending our constitution.

In answer to a question, it was stated that there will not be a summer club picnic.

The meeting was then adjourned. Because of a mix-up in communication there was no presentation.

Submitted by:
Mary A. Brown

6809 EXPRESS
PENN-JERSEY COLOR COMPUTER CLUB

The "6809 EXPRESS" is the official monthly publication of the PENN-JERSEY COLOR COMPUTER CLUB. The club is based in the greater Lehigh Valley area of Northeastern Pennsylvania including sections of Northwest New Jersey. Any club or non-profit organization may reprint any part of the newsletter as long as credit is given. PJCCC will gladly exchange newsletters with any other computer club. For any written correspondence send your request to EDITOR, 6809 EXPRESS, Penn-Jersey Color Computer Club, P.O. Box 2742, Lehigh Valley, Pa. 18001.

President	-	Paul Eckhart
Vice-Pres.	-	Roni DeGarmo
Editor	-	Reinhold Radke
Secretary	-	Mary Brown
Treasurer	-	Tom Castronuova
Librarian	-	Danny Zacharias
Publicity	-	Frank Tupper
Bulletin Bd.	-	Jim Mangan

PJCCC assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of any information contained in this newsletter.

PJ—CCC LIBRARY INVENTORY — 1988

NEWSPAPER CLIPPINGS

"Computer Clubs" (2) - The Morning Call, Tuesday, January 3, 1984

"Beyond Space Invaders" - The Easton Express, Sunday, November 9, 1986

BOOKS

Easy-to-Understand Guide to Home Computers by Forrest Mims III
101 Color Computer Programming Tips and Tricks by Ron Clark
55 More Color Computer Programs by Ron Clark
The Color Computer Songbook by Ron Clark
Color Computer Secrets Revealed by Disk n' Data
Spreadsheeting on the TRS-80 Color Computer by Harry Anbarlian
Introducing Your Color Computer 2
Getting Started with Extended Color Basic (3)
Getting Started with Color Basic
OS-9 Commands
OS-9 Program Development
OS-9 Technical Information
TRS-80 Color Computer Assembly Language Programming by William Barden Jr.
Color Computer Graphics by William Barden Jr.
TRS-80 Color Computer Graphics by Don Inman
EDTASM+ - Color Computer Editor Assembler with Zbug (2)
Bussiness programs for TRS-80 model I/III by Charles Sternberg
222 basic computer programs for home, school and office by Don Roberts
Creating Adventure games on your computer
Tim Hartnells Giant book of computer games
Tim Hartnells second giant book of computer games
Videotex with rompack
Micro Adventure No. 2 - Jungle Quest

CASSETTES

Utility Tape
  Hexdump
  Hamcode Logo PM-1 Flashing P-J
Lottery - Daily Number
Penn-Jersey CoCo Club Tape #1 - Demo (Graphics)
Prime Numbers
"Color Computer Newsmagnazine" - September 1981 (#1) thru August 1983 (#23)
"Color Computer Newsmagnazine" Sampler Volume 1
"TRC Magazine" - November 1981 (#1-1) thru December 1982 (#2-2) (except May, September and October 1982)
Chromasettes: Have Feburary, March, May, June, October, December of 1982: January, March, May, June, July, August, September, November, December of 1983: January, Febuary and March of 1984
Programmer's Program (BASIC training)
CoCo Cassette # 20 and # 22
Color Computer Ears Demo
Pyramid
Katerpillar
Ghost Gobbler
Snowplow
Trapfall
Light Pen Programs
Zaxxon (2)
Family (Geneology program)
Camel
Color Grading (Gradebook) - Hexdump Utility
Calixto Island
Shenanigans
Sea Quest
Tut's Tomb
Black Sanctum
Cubix
Images II
Doodle Bug w/documentation
Madness and The Minotaur w/documentation

DISKS

Whitesmith Color Gallery of Pictures
Whitesmith Picture Disk #1C - Graphicom II Demo
Color and More Color Computer Applications w/documentation
The Warrior and the Wizard
Penn Jersey Software Database
PJCCC Club Disk #1
Penn Jersey Hardware Database
Wordmaster Word Processor w/documentation
Calixto Island
Astro-blast
Berserk
Zaksund
The Nibbler
SDOS Utilities - EDTASM for SDOS w/documentation
Chessd w/documentation
Managing Information Storage and Retrieval (MISAR) w/ documentation by Wayne Moodie
MTerm w/documentation - Rollodex - Z (Backup Program)
McPaint w/documentation
Club Utility Disk #1 - DOSclear and DIR (Disk Jacket program)
Rocky's Boots
Public Domain Disks
  PD-01 Basic Games
  PD-02 Basic Games
  PD-03 Binary Games
  PD-04 Simulations and Adventures
  PD-05 Utilities
  PD-06 Spell and Fix
  PD-07 Terminal Programs
  PD-08 Super Forth
  PD-09 Orchestra 90

Continued on page 4

PJ-CCC LIBRARY INVENTORY - 1988

Continued from page 3

PD-10 Music Utilities
PD-11 Music Files #1
PD-12 Music Files #2
PD-17 McPaint
Dazzleterm
Color Car
Morocco Gran Prix
Coco Greeting Card Designer w/documentation
Disks of all the cassettes in the library
Micro Illustrator w/documentation
CoCo Gallery Graphics from Rainbow
Jacket Directory w/documentation
Banner 2
Rtty Programs
Greg - E - Term
512k Memory Test for CoCo 3 w/documentation

ROMPACKS

Spectaculator
Pinball w/documentation
Megabug
EDTASM+ w/documentation

OTHER

Eight sets of binary dice
Peeks, Pokes, and Executes (3)

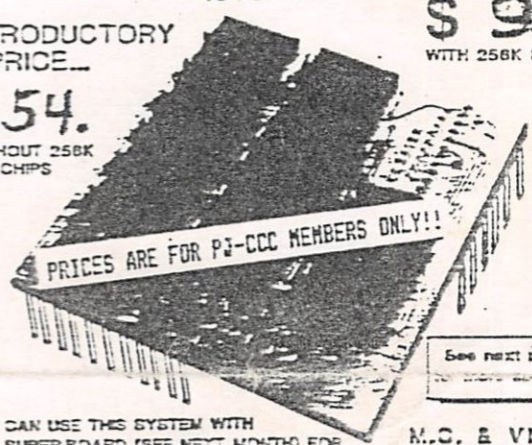
PJ-CCC Constitution (4)
Lomia Catalog for 1987
Wico Red Ball joystick
Public Domain Software Company Library List (3)
PJ-CCC Posters

NEW 512K UPGRADE FOR COCO 3

Now available the LR Tech 512K upgrade with all gold contacts and 120 nanosecond 256K chips. Useable as a RAM disk from basic or as large system memory for OS 9 level 2!!!

INTRODUCTORY PRICE...
$54.
WITHOUT 256K CHIPS

$ 95.
WITH 256K CHIPS



See next page

YOU CAN USE THIS SYSTEM WITH OUR SUPER BOARD (SEE NEXT MONTH) FOR A THREE USER SYSTEM UNDER OS9. WORKS WITH OUR HARD DRIVE.

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SPREADSHEETS -

TOPIC THIS MEETING

6809 EXPRESS
PENN - JERSEY COLOR COMPUTER CLUB

Reinhold Radke, Editor

WARREN SEARFOSS

P-J

(minutes continued)

The current slate of club officers were returned to office by acclamation. **Richard Kravits** stated he will continue to take care of our meeting area, by staying in touch with the collage. The meeting was adjourned at 7:57 and Random Access took place with a variety of subjects being discussed. A presentation was then given by Rick Hengeveld on writing programs in RS-DOS Basic.

The Maverick Report
Rick Hengeveld

The Maverick BBS has logged nearly 500 calls and has approximately 250 messages in the database. The files section has many new uploads there for the asking. The hardware is coming together for our hard drive system which will allow 2400 baud operation and mass storage of files. This should allow for greatly expanded use of the Maverick system.

****
****

And now the 6809 Express,always eager to expand the horizons of its reading public, presents another

GREAT THOUGHT BY A GREAT THINKER!
(this time in poetic form)

I stood on the bridge
at midnight
When I turned to
myself and said
What a sap I was to
stand there
When I could have
been home in
bed!

Harry McNaughton
It Pays To Be Ignorant. circa 1945

****
****

Don't miss the annual HOLIDAY PARTY!
It will be a lot more fun with you there!
Bring some goodies to share if you can!

Friday December 27 at 7:00 PM

6.8.10.9.1 EXPRESS

The Official Publication of The

PENN-JERSEY COLOR COMPUTER CLUB

H. Peter Unks, Editor

M/M Clyde Gano

FIRST CLASS MAIL

6.8.10 EXPRESS

The Official Publication of The

PENN-JERSEY COLOR COMPUTER CLUB

MAVERICK BBS

215-760-0456

DECEMBER 1991

HAVE YOU SEEN THIS MAN?

Did he bring Peter an MM/1 I/O board?

Do you like cookies?

Did he bring Peter a 105 meg hard drive?

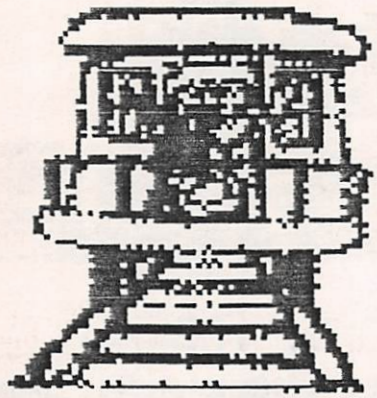
Do you like cake?

Will Clyde make the coffee?

Will you attend?

For the answers to these and other burning questions be sure to attend the exciting PJCCC annual

HOLIDAY PARTY FRIDAY DEC. 27 at 7 PM!



THE LIBRARY CAR

BY AL WAGNER

Oh Hi! Come on in, I've been working on a little gem for my word processing that I'd like to share with you. Pull up a crate over here by the computer and I'll continue my discussion on procedure files from way back in July.

If you recall, I mentioned that the startup file on a bootable disk is really a procedure file. This is a file that consists of a series of keyboard commands that execute as if you were typing them from the keyboard but, the computer is doing this automatically from the file. Well, two things have happened to me that have influenced my topic for this month. 1) I became more interested in what one can do with windows because of the last discussion we had and 2) I was writing some letters and was trying to write them in a formatted manner without having to run them through a formatter. To do this I needed a scale across the top of the screen to judge my margins. How could I create this scale without messing with my editor, have it so that it could not be accidently overwritten by the editor, and try to keep it simple? It dawned on me that what I needed was some combination of device and overlay windows.

Since this routine to create the window and scale would require several lines of commands to get the job done, I decided to create a procedure file to be sure that the commands were executed the same way each time. (I'm not the most accurate typist and my typing errors would drive anyone to the brink trying to debug a program if I had to type the entire program each time it was to execute!) I fired up my favorite editor and began.

I knew I needed to create a window. /W2 was available on my system, so I started with INIZ /W2. For no real reason, I decided to use wcreate to actually open the window. To create my favorite 80x24 white letter on blue background text screen I used Wcreate /W2 -s=2 00 00 80 24 00 01 01. Now we need to create the scale. I used two echo commands redirected to /W2. (Echo is similar to RSDOS BASIC's print command.) Echo >/W2 - 10 20 30 40 (etc. to 80) Echo >/W2 ----/----/----/----/(etc. to fill the line). With the scale created I now needed an overlay window in which to run my editor. This time I used display. Display 1b 22 00 00 03 50 15 00 01 >/W2. This opens an overlay window without saving whatever was under the area it is to occupy. It starts on the left edge of the screen, three lines down from the top. It is 80 columns wide (50 hex) and 22 rows long (15 hex) to allow for the two lines used by the scale. It will be a blue background with white letters. Next I needed to start a shell in this newly

6809 EXPRESS

The Official Publication of the

PENN-JERSEY COLOR COMPUTER CLUB

VOLUME 6 NUMBER 11 NOVEMBER 1988

OFFICER ELECTION IS FRIDAY, NOV. 25

The next meeting of Penn-Jersey Color Computer Cub will be held THIS FRIDAY, November 25, 1988 at the Northampton County Community College.

THIS IS A VERY IMPORTANT MEETING - ELECTION OF OFFICERS will be held that night so be sure you attend.

Those members nominated for office at the October meeting are:

PRESIDENT - Roni DeGarmo
VICE-PRESIDENT - Ken Dawe and Rick Hengerveld
SECRETARY - Mary Brown
TREASURER - Clyde Gano
NEWS-LETTER EDITOR - Reinhold Radke
LIBRARIAN - Adam Blake
PUBLICITY - Pete Unks

Nominations for office positions will be closed just before the voting at this Friday's meeting and any other member in good standing may be added to the list until the nominations are closed.

We also need volunteers to serve on the folowing committee:

CLEAN-UP -
REFRESHMENTS - Cold -
HOT -
EQUIPMENT -
NCACC LAIASON - Richard Kravitz

PLEASE ATTEND THIS FRIDAY'S MEETING, NOV. 25 at 7 p.m. Topic for the evening is MAX -10 AND COCO MAX III presented by Pete Unks. See the article in this issue of the 6809 EXPRESS for a short review of MAX-10.

FILE YOUR RAINBOW MAGAZINES IN THIS "CHEAP" FILE BOX

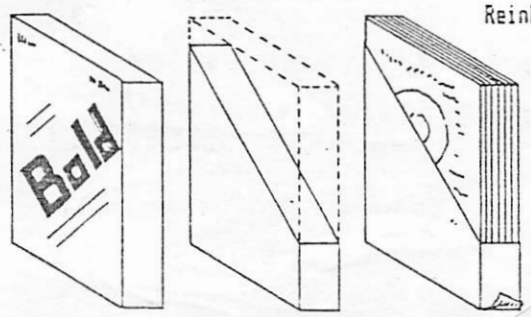
Put your RAINBOW Magazines into the Soaps! Detergent boxes that is.

Save the GIANT size detergent boxes, like BOLD, FAB or others. Cut the box as shown in the illustration, leaving about 5 inches in the front. This leaves enough room to support the box in holding the magazines and also enough room to see the dates of the Rainbow Magazines. Each box holds at least six issues of The RAINBOW.

You may spray paint the box, like I did, or decorate it with Contact paper or whatever. Make sure you vacuum the box before painting or decorating it in order to get all the soap detergent out. Also, if you decide to paint, sandpaper the box lightly to roughen the varnish which coats the printing so your spray paint will hold up and not be easily scratched like mine.

Another tip is using duct tape or aluminum or "silver" tape some like to call it, to put along the bottom of the box from the back to the front, leaving a couple of inches folded over in the front so you can pull the box out without trying to get your fingers between the boxes when pulling them out from your bookshelf.

Reinhold Radke



NEW GAMES FOR THE COCO

Review by Rick Hengeveld

I recently was sent two programs for review from Sundog Systems of Pittsburgh, Pa. Sundog is owned and operated by Glen Dalgren. Glen has in the past worked for other sotware developers and recently formed his own company.

Sundog Systems main forte seems to be game development for the CoCo and they fill the job weel. The first program we'll look at is called Kung Fu Dude. This proram comes on a copyguarded disk and is compatible with both the Coco 2 and 3. Upon booting the disk you are greeted with a board asking you to check for the proper color set - Coco 2 users may tap the reset button to get the correct color set and Coco 3 users should power up while holding the F1 key to get the proper colors. At this point you meet up with the high kicking Kung Fu Dude.

Coco 3 users have the option at this time to go double clock speed for some real high speed kicking. Kung Fu Dude is a joystick operated martial arts game of excellent quality. The graphics are very good and quite colorful. Play goes through several levels with the player controlling the movement, kicks and punches as the Kung Fu Dude is attacked by a never ending horde of masked men. As K.F.D progresses to higher levels he meets tougher opponents and even gunfire. The action is fast and furious. The graphics and pla action are among the best you'll find for the Coco 2.

The other entry from Sundog is a graphic adventure game called "In Quest of the Starlord." This proram is for the Coco 3 only and as with Kung Fu Dude comes on a copyguarded disk. The first thing you notice is the size of this game as it comes on two floopy disks, giving you 4 sides of adventure.

I talked to the developer before receiving my programs, and with good reason. Starlord features 320x200 graphics boards that are so detailed that disk access is required for each change of screens. Starlord is set in the future with the adventurer (you) being persued by bounty hunters and an unfriendly government. A game save feature is provided and I recommend frequent use, death seems to come quickly in the future!

If you are a seasoned adventurer, I highly recommend this game. I have solved my share of adventure games but so far this one has been able to keep me on side 2 of the first disk.

Both programs are available from Sundog Systems as well as other vendors for approximately $25.00 and $35.00 respectively

OFFICER ELECTION IS THIS MEETING

"COCO DEN" BBS
215-866-1805

OWL-WARE NEED CHRISTMAS HELP

Tom Koginsky of Owl-Ware, Airport Rd., Bath, Pa. has appealed to Penn-Jersey Color Computer Club members if they know any college student who will be home for Christmas break that might be interested in working in his computer store the week before Christmas and the following two weeks.

Anyone who knows such a person, have thes contact Tom at 837-1917. He'll discuss the situation and pay with them.

6809 Express

Penn-Jersey Color Computer Club

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Bulletin Bd. - Jim Mangan

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Max-10 version 1.0 (no columns, no spelling checker) will have to return their original disk with $29.95 for the upgrade. But the tremendous advantages of these two programs far outway these flaws.

If the $79.95 price for each program will strain your budget, why not drop a hint to the fellow pictured below.

H. Peter Unks

Santa Claus

RAINBOWFEST

Princeton Oct. 21-28

by H. Peter Unks

Thousands of Coco enthusiasts visited the thirty exhibitors and eighteen seminars which were featured at the 1988 Princeton Rainbowfest.

Dr. Marty Goodman, Logan Ward, and Steve Bjork were only a few of the seminar speakers who answered questions and sparked some thinking.

Our friends at the Owl Computer Services were among the busiest exhibitors at the show. By Saturday night, their drives (hard and floppy) were gone. Cer-Comp had *Window Master* there for all to see. The latest version of *Lyra*, the MIDI-software music program made the exhibit hall sound like an audio show.

There were some interesting new items. Foto-Ware displayed transfer paper which enables computer graphics to be transferred to T-shirts. Kenneth Leigh Enterprises introduced START OS-9 by Paul K. Ward. Owl demonstrated hard disk basic.

Sunday afternoon was the usual bargain grabbing madhouse, and a good time was had by all. See you in Princeton next year ?

COUPON CALCULATOR

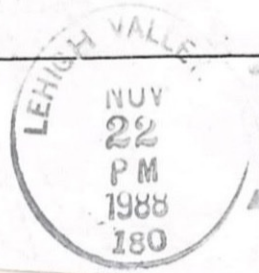
Computers are pretty good at solving problems and
prese manner which is easy to read.
This display the amount of money you
will coupons.

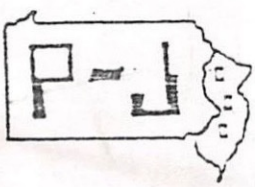
```
10 CLS
20 PRINT "COUPON CALCULATOR"
30 PRINT:PRINT "TO FIND OUT HOW MUCH YOU'LL SAVE"
40 PRINT "WITH YOUR SHOPPING COUPONS"
50 PRINT "ANSWER THE FOLLOWING QUESTIONS"
60 PRINT "THEN PRESS THE ENTER KEY"
70 PRINT:PRINT "HOW MANY COUPONS DO YOU HAVE"
80 INPUT C
90 PRINT:PRINT "ENTER THE AMOUNT OF A COUPON"
100 PRINT "DON'T USE A DOLLAR SIGN"
110 PRINT "DO USE A DECIMAL POINT":PRINT
120 FOR E = 1 TO C: PRINT "ENTER VALUE OF COUPON #"E
130 INPUT A
140 T=T+A
150 NEXT E
160 PRINT:PRINT "$"T"WILL BE SAVED"
```

The VARIABLES in this program are:
C=number of coupons
E=coupon#
A=value of coupons
T=total value of coupons

Line 140 adds up the total, each time a value is entered into the computer. Line 160 prints the total value to be saved.

6809 EXPRESS
PENN-JERSEY COLOR COMPUTER CLUB



CLYDE GANO

Reinhold Radke, Editor