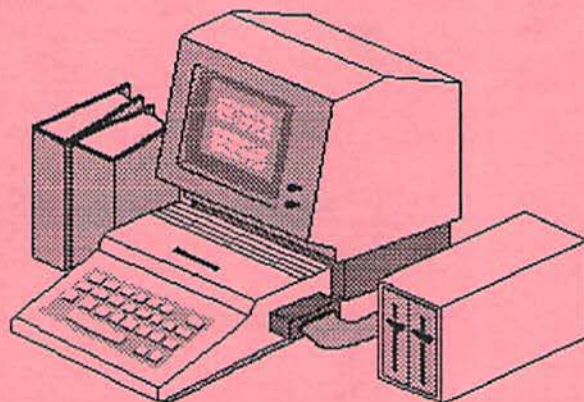# CoCo 123

January, 1995
Volume XV, Number 2

New Officers Elected at Glenside Meeting

by Bob "Gator" Swoger

Officers for 1995 were elected at the December 8th meeting of the Glenside Color Computer Club. The meeting began at 8:21 PM as we waited for folks to make it in through the bad weather. Gene opened the meeting with the election of officers. To the nominations at the November meeting of Tony Podraza and Tom Schaefges were added Mike Warns and Eddie Kuns. Eddie Kuns became our 1995 Glenside president. He promised to encourage others to take on the tasks of the CLUB rather than trying to do it all himself.

For vice-president Carl Boll, Rob Gibons, Chris Hawks, Mike Knudsen, Jerry Summer, Miles Westbrook, Tom Schaefges, Tony Podraza and Mike Warns. Congratulate Tony Podraza, Tom Schaefges and Rob Gibons. Mike Knudsen, Chris Hawks and Miles Westbrook will be alternates.

For Secretary Howard Luckey and Sheryl Edwards, Sheryl took the baton! Congratulations, Sheryl, one of our many hard working-for-the-club members. Howard will back her up if needed. Thanks for all the great writing, Howard, I'll bet you'll like the vacation and will now be able to give us a few more MM-1 DEMOs.

For Treasurer Bob Bruhl and George Schneeweiss. George, they just won't let you rest - Congratulations for another year. George wouldn't walk a mile for a Camel but he drives over 100 miles for Glenside! He loves this group!

There were two demos going on at once. One was Bob Bruhl giving a CoCo Friends Magazine Demo showing their results of a Logo contest, and Tom Schaefges giving a CoCo emulator demo on a lap top. A perfect way to use new hardware without having to learn about a new computer or how to feel at home with new equipment, not that the old CoCo will ever wear out before we do!

The most important thing that happened during the election was that the voters spread the load" by not loading our NEW NEWSLETTER EDITOR Mike Warns with any more responsibility. He will have enough load on his shoulders with our newsletter. We still wish to keep our commitment of at least four newsletters per year and as this reporter sees it, many more than that can cause both editor and reader burnout. Mike challenged those present to do at least one little article in 1995 telling about how they use their CoCo at home andnot to worry about writing technique.

Editor's Note

True about my time, Bob, but it was a great honor to be nominated, anyway!

By the way, we will review that CoCo emulator in an upcoming issue (and the one that emulates the Color Computer 3, when it is available.)

I would like to take this opportunity to commisson a review of the copy of OS-9000 that our new president was showing off at the meeting. Hint, hint, Eddie!

The Outgoing President's /term

by Brian Schubring

Greetings to one and all.

The season for giving and helping our fellow man and women is upon us and gives us the chance reciprocate the spirit. This same kind of spirit is what keeps us going in supporting of CoCo and bring us into the new year.

As this is the end of the year this will also be my last official report to the CoCo community as President. As I was on vacation (and having my wisdom teeth pulled plus one...OOUCHH!!!), with my wife I was not there to oversee the December meeting for the Voting of the new club officers.

CoCo 123 Information

The Glenside Color Computer Club of Illinois is a not-for-profit organization whose members share an interest in the Tandy Color Computer ® The CoCo 123 is the official newsletter of the Glenside Color Computer Club. The Glenside Color Computer Club of Illinois has no affiliation with Radio Shack ® and/or the Tandy Corporation ®. The opinions expressed by the authors of the articles contained within this newsletter do not necessarily reflect the opinions of the Editor, the Executive Officers, or the actual club membership.

We are committed to publishing a minimum of four issues and a maximum of twelve issues per calendar year. For a fee of $15.00, for January through December, you can become a GCCC member with full membership privileges. Send your dues to:

GEORGE SCHNEEWEISS
RR #2 Box 67
Forrest, IL 61741-9629

Here is a list of the 1994 Executive Officers and how to contact them. The club has four strong SIGs, Tandy Color Computer 1, 2, 3, and OS-9. If you have questions concerning these computers or OS-9 call one of these officers.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President	Eddie Kuns	708-820-3943	The buck stops here
Vice-President	Rob Gibons	708-916-1118	Meeting Planning, etc.
Vice-President	Tony Podraza	708-428-3576	" "
Vice-President	Tom Schaefges	815-337-0117	" "
Secretary	Sheryl Edwards	708-344-5632	Records and Reporting
Treasurer	George Schneeweiss	815-832-5571	Dues and Purchasing
Editor	Mike Warns	708-627-9561	Newsletter coordinator
Telecom	David Barnes	708-587-9820	Club BBS SysOp
Printer	Dennis Devitt	708-629-2016	Newsletter Exchange
Advertising	Bob Swoger	708-576-8068	Newsletter Ads

CoCo 123 Contributions

If you would like to contribute an article, upload a file to the Newsletter Submissions section of the Glenside's Cup of CoCo BBS. Ditto for ads and news about your group. Please include a name and an address or phone number. If you would rather submit your article on diskette, they can be accepted in ASCII form and unformatted in the following formats:

```
RS-DOS   5-1/4" SSDD, 35 tracks
OS-9     5-1/4" SSDD, 35 tracks
MS-DOS   Any standard format
```

Mail your articles to:

Mike Warns
31 South Edgewood Avenue
Lombard, IL 60148

Submission deadline for the CoCo 123 is the 15th of each month. Articles submitted after the deadline will appear in the next issue.

CoCo 123 Newsletter Exchange

The Glenside Color Computer Club of Illinois is pleased to exchange newsletters with other Color Computer or OS-9 user groups at no charge. Send your newsletter to:

Dennis Devitt
21 W 144 Canary Road
Lombard, IL 60148

Reprint Policy

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know and send us your newsletter. We will then distribute it to our members and keep our attendance up.

Glenside Club Meetings

The Glenside Color Computer Club meets on the second Thursday of each month from 7:30 to 9:30 PM at the Glendale Heights Public Library. A social get-together always occurs afterward at the Springdale Restaurant.

Future meeting dates:

January 12, 1995
February 9, 1995

These are your BBSs. Please support them.

Glenside CoCoRama BBS
708-587-9837
9600 Baud

SandV BBS
708-352-0948
9600 Baud

Glenside's Cup of CoCo
708-428-0436
2400 Baud

Chi-CoCo BBS
312-735-3355
14,400 Baud

I would like to welcome Eddie Kuhns as the new '95 president of the club and wish him all the luck and support possible.

Knowing Eddie's hectic schedule we will all have to pitch in and make his transition to the presidency as smooth as possible.

With reflection upon the past year of being president of GCCC, I was not as prepared for the responsibilities as I thought I was. But with the gentle prodding and suggestions from Tony and others I learned a bit about the workings of an organization such as ours. One thing that one must remember is that this is a voluntary job. Yes, A JOB. Work is involved but that is a good thing. It can and will bring people together under a common cause and support something they believe in. Key words are in there somewhere...let's see...hmmmmmm, people...common...sup-port...involved...CoCo...HMMMMM ?!?! I think that a pattern is developing. Do you see it ???

You my think that this is a bit of a flame... maybe. But some of these things apply to me. There were some things that I could or should have been a bit more involved in, (sorry no details). But live and learn.

With that I bid you all a Merry Christmas and a Happy New Year.

Brian, exit stage right.... Eddie, enter stage left.

The Incoming President's /term

by Eddie Kuns

Eddie was quietly applauding Brian's work from backstage when suddenly, OOF!, he found himself flying (stage left) toward the podium. Standing in the spotlight, he could make out lots of figures in the audience, some looking like they had traveled quite a distance to be present. "Uh, hi," he mumbled into the microphone, and his voice echoed back sounding unfamiliar. "What did I get myself into?" he quietly asked himself! "What happened!?"

Uh, hi! Let me introduce myself. I've been in the CoCo world for many years. I got my first CoCo, oh, way back in the early 80s. I started playing with OS-9 in '87 when Level II was released; I bought the second copy to hit Troy, NY. I'm typing this on my MM/1a as my CoCo sits quietly (tonight) to my right in a tower PC case. (I could tell y'all about the first night after it was repackaged and my younger cat thought all the cables looked appetizing...) I've been with Glenside since I moved out to Illinois in the summer of '89.

My CoCo (kilroy.chi.il.us) was among the first to be connected to the outside world via UUCP and registered in the UUCP network maps. This job has been taken over by my MM/1a, but my CoCo is still remembered, and still alive. Some of you will recognize me from my participation on the CoCo mailing list (at coco@pucc.princeton.edu) or from when I was active on Delphi's OS-9 forum.

Details, details, OK but what do I DO? Well, I'm an eighth-year gradual student in physics (and I

do mean gradual!). I live in Illinois to do my research in experimental high energy physics (particle physics) at Fermilab. I plan to graduate THIS YEAR if it kills me!

My graduate student life will limit the amount of time I have to DO things as President of Glenside. Thus, I ran for office (such as I did) under the, "it elected, I will delegate everything" platform! OK, OK, so this was my disclaimer when I was unexpectedly nominated, grin. So bear with me while I learn what needs to be done, find out how much work is involved, and delegate it into smaller pieces. Please do volunteer to help out when help is needed, as that's what keeps this club alive. The more people who volunteer, the less time each person has to spend.

And now it's time for me to talk to past Glenside presidents and ask them, "What have I gotten myself into?" The next year should be a fun ride, and I'm glad you are all along with me.

You can reach me at:

Eddie Kuns
2005 Tall Oaks Dr #2A
Aurora, IL 60505-1221
(708) 820-3943
EMail: ekuns@kilroy.chi.il.us
Delphi: eddiekuns

The Pentium has been reported to have a bug in the floating point processor. This has shown up in some division calculations.

Q: How many Pentium designers does it take to screw in a light bulb?
A: 1.99904274017, but that's close enough for non-technical people.

Q: What do you get when you cross a Pentium PC with a research grant?
A: A mad scientist.

Q: What's another name for the "Intel Inside" sticker they put on Pentiums?
A: The warning label.

Q: What do you call a series of FDIV instructions on a Pentium?
A: Successive approximations.

Q: Complete the following word analogy: Add is to Subtract as Multiply is to:
1) Divide
2) ROUND
3) RANDOM
4) On a Pentium, all of the above
A: Number 4.

Editor's Corner

by Mike Warns

Technology has helped all of us; it is what has brought this group of human beings together. With new methods come new problems. For instance, electronic transfer of files makes ownership of intellectual property less obvious than it once was. You might find an interesting article on some bulletin board and pass it along for publication in the newsletter, never claiming it as your own. You may have also commited plagiarism and opened the club up to prosecution.

Electronic transfer does not carry a legally valid signature, so a degree of trust must accompany every transaction. We have asked that you "sign" your articles by putting your name on them, but some cases require that we go a little farther to ensure that an author's rights are protected.

If an article has been "signed" by a Glenside member we will assume that it was written and submitted by that member. If the author is not a member we will attempt to contact him in order to obtain permission to publish the article. However, we will not spend a lot of time doing that.

If an article has been placed in the public domain--and it must state that in the file--then we can publish it with no problems. This is also true if you write us a little note with the submission. Please include your telephone number and your address (we would need to know where to send the check, if we paid for these things, which we do not).

Your comments in the public mail section of a bulletin board are considered public statements and can be quoted without your permission, although a polite editor would ask.

If the article has been published in another magazine you no longer own it. You cannot ask us to also publish it. A sticky situation arises when you have submitted the article or program but it has not been published. If the magazine has sent you a clear rejection you are free to submit it here. If the other magazine has neither published nor rejected your article we will not publish it. The CoCo community is too small to risk infighting and the potential for lawsuits.

On the other hand, if you find an interesting article anywhere go ahead and submit it, along with any information needed to find the owner. Right now I am trying to get permission from "Wired" to reprint an article on OS-9 and CD-I and from "BYTE" to reprint a review of OS-9000.

CB Codes: a 10-Code Decoder

by Rogelio Perea

In Citizen's Band Radio, or CB for short, there are some codes that were developed to shorten the messages. They also provide some sort of security since someone listening or eavesdropping without knowledge of the 10-codes wouldn't know what the message was about. CB was a very hot "fad" in the late 70's and mid-80's; everyone wanted to have a CB radio. Hollywood went as far as providing us with several movies showcasing CB: Convoy (remember that one?), Smokey and The Bandit, and, of course, who could forget The Dukes of Hazzard on TV.

This BASIC program can be run in any CoCo system with a tape or disk drive as all the needed data values are stored within the program.

Once loaded, RUN it. After a 1 second pause you will be greeted with a colorful display (this is a COLOR computer!!) with the title, a small "window" with the required instructions, and the prompt and its "input window".

Let me explain this input window some more: the longest input you can provide to the program is a 3 digit code, so the magenta colored window is set at this length.

The program is very straightforward in its design and the comments within should aid in understanding it. When using the program you write the code number and press [ENTER]. The CoCo searches the DATA lines and gives back the verbose explanation of the code, if the code entered is a valid one. If the code given equals 3 digits in length the CoCo does an "auto-ENTER" and gives you a result. To exit just press [ENTER] with no code number given and an "ARE YOU SURE?" windowed prompt will appear. Answer Y or N as appropriate.

One thing that can speed up the program is the speed-up POKE, but the main delay comes from lines 285-295; the search algorithm could be enhanced a lot. As it is now the "higher" the 10-code given, the longer the CoCo takes to find it. If any new 10-code not included in the actual list needs to be added, insert it on the appropriate place in the DATA statements and adjust accordingly the size of the TN$ array and the FOR - TO - NEXT counter variable I.

CoCo 3 users can place a WIDTH 32 before the CLS 0 at line 125 to avoid bizarre behavior on the CoCo 3 and the dreaded ?HP ERROR when trying to PRINT@ on high-res text screens.

There you have it. If you'd like to comment on this program or give some ideas for some other small, helpful, and educational programs on the CoCo, I can be reached through the CoCo Echo, CompuServe and your all-day-standard Postal Service Mail System (NO SASE required if you want a reply!!).

```
        /   Rogelio Perea
U.S.   |    252 N Grand Avenue Apt 169
        \   Nogales, AZ 85621

            /   Rogelio Perea
HomeBase |  Porfirio Diaz 170
            \   Nogales Sonora MEXICO 84000

CompuServe    72056,1204

INTERNET      72056,1204@COMPUSERVE.COM
```

Editor's note:
The Color Computer and telecommunication of all types have always gone together, and I see it as one of our sources of continued growth. I would like to see more on this topic from our Ham-ish members.

CB Codes: a 10-Code Decoder —The Program

by Rogelio Perea

```
10 '         CB CODES
15 '
20 ' THIS BASIC PROGRAM HELPS
25 ' TO QUICKLY FIND WHAT A 10
30 ' CODE MEANS JUST BY GIVING
35 ' THE NUMBER FOLLOWING THE
40 ' 10 CALL. USEFUL FOR ALL
45 ' COCO CB'ERS OUT THERE.
50 ' WITH A LITTLE MORE WORK
55 ' IT MAY BE TURNED TO A
60 ' DRILL PROGRAM TO HELP IN
65 ' THE LEARNING PROCESS OF
70 ' THE 10 CODES.
75 '
80 ' BY: ROGELIO PEREA HERNANDEZ
85 '       NOGALES SONORA MEXICO
90 '       JULY 17, 1994
95 '
100 ' LOAD ARRAY WITH CODE # AND
105 ' TEXT INTO TN$. CURRENTLY
110 ' ONLY 65 CODES ARE
115 ' SUPPORTED.
120 '
125 CLS 0:DIM TN$(65,2) 'TABLE
FOR 65 CODES
130 FOR I=1 TO 65
135 READ TN$(I,1),TN$(I,2)
140 NEXT I
145 '
150 ' SOME INSTRUCTIONS
155 '
160 CLS
0:PRINT@0,STRING$(32,175);
165 PRINT@32,STRING$(7,175)"TEN-
CODES  DECODER"STRING$(7,175);
170 PRINT@64,STRING$(32,175);
175 PRINT@135,"enter ONLY TO
EXIT"CHR$(242);
180 PRINT@167,"OR TYPE 10-CODE
AT"CHR$(250);
185 PRINT@199,"      THE PROMPT
"CHR$(250);
190
PRINT@232,STRING$(17,252)CHR$(248
);
195 PRINT@297,"YOUR CODE?
";STRING$(3,239);
200 '
205 ' USER INPUT. EXITS IF CD$
210 ' IS 0, OTHERWISE BUILD CD$
215 ' AND OBTAIN 10-CODE.
220 '
225 PRINT@308,::CD$=""
230 I$=INKEY$:IF I$="" THEN 230
235 IF I$=CHR$(13) THEN
CD=VAL(CD$):GOTO 255
240 IF I$<"0" OR I$>"9" THEN 230
245 CD$=CD$+I$:PRINT I$;:SOUND
220,1
250 IF LEN(CD$)=3 THEN
CD=VAL(CD$) ELSE 230
255 IF CD=0 THEN 445 'EXIT?
260 '
265 ' WE HAVE A 10-CODE FROM
270 ' USER, NOW LET'S CHECK
275 ' OUR ARRAY FOR A MATCH
280 '
285 FOR I=1 TO 65
290 IF VAL(TN$(I,1))=CD THEN 370
295 NEXT I
300 '
305 ' OOPS!, NO MATCH!!. WARN
310 ' USER AND WAIT FOR THE
315 ' ENTER KEY TO CONTINUE
320 '
325 PRINT@416+(LEN(CD$)+6)/2,CD$"
IS NOT A VALID CODE";
330 PRINT@452,"PRESS enter TO
CONTINUE";
335 I$=INKEY$
340 I$=INKEY$:IF I$<>CHR$(13)
THEN 340 ELSE SOUND 180,1:GOTO
160
345 '
350 ' WE HAVE A MATCH. TAKE
355 ' OUT THE TEXT TRANSLATION
360 ' AND CENTER IT ON SCREEN
365 '
370 PRINT@135,STRING$(19,128);
375 PRINT@167,STRING$(19,128);
380 PRINT@199,STRING$(19,128);
385 PRINT@231,STRING$(19,128);
390 PRINT@228,"THE CODE: 10-
"CD$", MEANS:";
395 PRINT@288,STRING$(32,191);
400 PRINT@320+(32-
LEN(TN$(I,2)))/2,TN$(I,2);
405 PRINT@352,STRING$(32,191);
410 SOUND 100,1:SOUND 180,1:SOUND
240,1
415 GOTO 330
420 '
425 ' USER WANTS TO QUIT?
430 ' LET'S MAKE SURE OF
435 ' THAT....
440 '
445 PRINT@421,STRING$(23,147);
450 PRINT@453,CHR$(159)"EXIT -
ARE YOU SURE?"CHR$(159);
455 PRINT@485,STRING$(23,156);
460 SOUND 1,4
```

```
465 I$=INKEY$:IF I$="" THEN 465
470 IF I$="Y" THEN CLS:END
475 IF I$="N" THEN CLS:GOTO 160
ELSE 465
480 '
485 ' DATA SETS - TWO FOR EACH
490 ' 10 CODE AVAILABLE ON THE
495 ' THE LIST. FUTURE ADITIONS
500 ' SHOULD BE EASY TO DO, JUST
505 ' ADJUST THE SIZE OF TN$ IN
510 ' THE DIM STATEMENT ABOVE TO
515 ' THE NEW ONE.
520 '
525 DATA 1,RECEIVING POORLY - BAD
SIGNAL
530 DATA 2,RECEIVING OK - SIGNAL
STRONG
535 DATA 3,STOP TRANSMITTING
540 DATA 4,MESSAGE RECEIVED
545 DATA 5,RELAY MESSAGE
550 DATA 6,BUSY - PLEASE STAND BY
555 DATA 7,OUT OF SERVICE
560 DATA 8,IN SERVICE
565 DATA 10,FINISHED - STANDING
BY
570 DATA 11,TALK SLOWER
575 DATA 12,VISITORS PRESENT
580 DATA 13,NEED WEATHER OR ROAD
CONDITIONS
585 DATA 16,PICKUP NEEDED AT ----
590 DATA 17,URGENT BUSINESS
595 DATA 18,IS THERE ANYTHING FOR
US?
600 DATA 19,NOTHING FOR YOU -
RETURN TO BASE
605 DATA 20,MY LOCATION IS ----
610 DATA 21,USE A TELEPHONE
615 DATA 22,REPORT IN PERSON TO -
---
620 DATA 23,STAND BY
625 DATA 24,FINISHED LAST
ASSIGNMENT
630 DATA 25,CAN YOU CONTACT ----?
635 DATA 26,DISREGARD LAST
INFORMATION
640 DATA 27,I'M CHANGING TO
CHANNEL ----
645 DATA 28,IDENTIFY YOUR STATION
650 DATA 29,YOUR TIME IS UP FOR
CONTACT
655 DATA 30,DOES NOT CONFORM TO
FCC RULES
660 DATA 32,I'LL GIVE YOU A RADIO
CHECK
665 DATA 33,EMERGENCY TRAFFIC @
THIS STATION
670 DATA 34,HELP NEEDED AT THIS
STATION
675 DATA 35,CONFIDENTIAL
INFORMATION
680 DATA 36,THE CORRECT TIME IS -
---
685 DATA 37,WRECKER NEEDED AT ---
-
690 DATA 38,AMBULANCE NEEDED AT -
---
695 DATA 39,YOUR MESSAGE HAS BEEN
DELIVERED
700 DATA 41,PLEASE CHANGE TO
CHANNEL ----
705 DATA 42,TRAFFIC ACCIDENT AT -
---
710 DATA 43,TRAFFIC CONGESTION AT
----
715 DATA 44,I HAVE A MESSAGE FOR
----
720 DATA 45,ALL UNITS PLEASE
REPORT IN
725 DATA 50,BREAK CHANNEL
730 DATA 60,WHAT IS THE NEXT
MESSAGE NUM?
735 DATA 62,UNABLE TO COPY - USE
TELEPHONE
740 DATA 63,NET DIRECTED TO ----
745 DATA 64,NET CLEAR
750 DATA 65,STANDING BY FOR NEXT
MESSAGE
755 DATA 67,ALL UNITS COMPLY
760 DATA 70,FIRE AT ----
765 DATA 71,PROCEED WITH TX IN
SEQUENCE
770 DATA 73,SPEED TRAP AT ----
775 DATA 75,YOUR TX IS CAUSING
INTERFERENCE
780 DATA 77,NEGATIVE CONTACT
785 DATA 81,RESERVE HOTEL ROOM
FOR ----
790 DATA 82,RESERVE ROOM FOR ----
795 DATA 84,MY TELEPHONE NUMBER
IS ----
800 DATA 85,MY ADDRESS IS ----
805 DATA 89,RADIO REPAIRMAN
NEEDED AT ----
810 DATA 90,I HAVE TVI
815 DATA 91,TALK CLOSER TO THE
MICROPHONE
820 DATA 92,YOUR TX NEEDS
ADJUSTMENT
825 DATA 93,CHECK MY FREQ ON THIS
CHANNEL
830 DATA 94,PLEASE GIVE ME A LONG
COUNT
835 DATA 95,TX DEAD CARRIER FOR 5
SECONDS
840 DATA 99,MISSION COMPLETED
845 DATA 200,POLICE NEEDED AT ---
-
```

E-Clock Modification

by Charles C. Bundy IV

DATE: March 27, 1991

COMMENT: This document is PD, and the author assumes no liability for damage done to computing equipment. The subject of the article has been built and tested and has been working since 1987. I have made every attempt to double check my instructions and schematics for errors, but cannot gurantee they do not exist. This fix requires direct motherboard modifications and as such is highly susceptible to damage of said motherboard. Proceed with caution, and good luck!

The CoCo III has a slight timing problem with SCS/CTS/ROM selects. This is due to IC9 (74LS138) being selected (i.e. transiting) during an entire E-clock cycle instead of being gated to the READ portion. The tech manual quotes "Due to the nature of the ROMs and in order to prevent data bus contention, the ROMs are enabled only during the E portion of a read cycle." pp 36. This is blatantly false when you look at IC9 it has both *G2A and *G2B and G1 mux selects tied wide open! The fix came from the Motorola 8-bit Microprocessor Handbook Data sheets on the MC6883 SAM (GIME's father :-)).
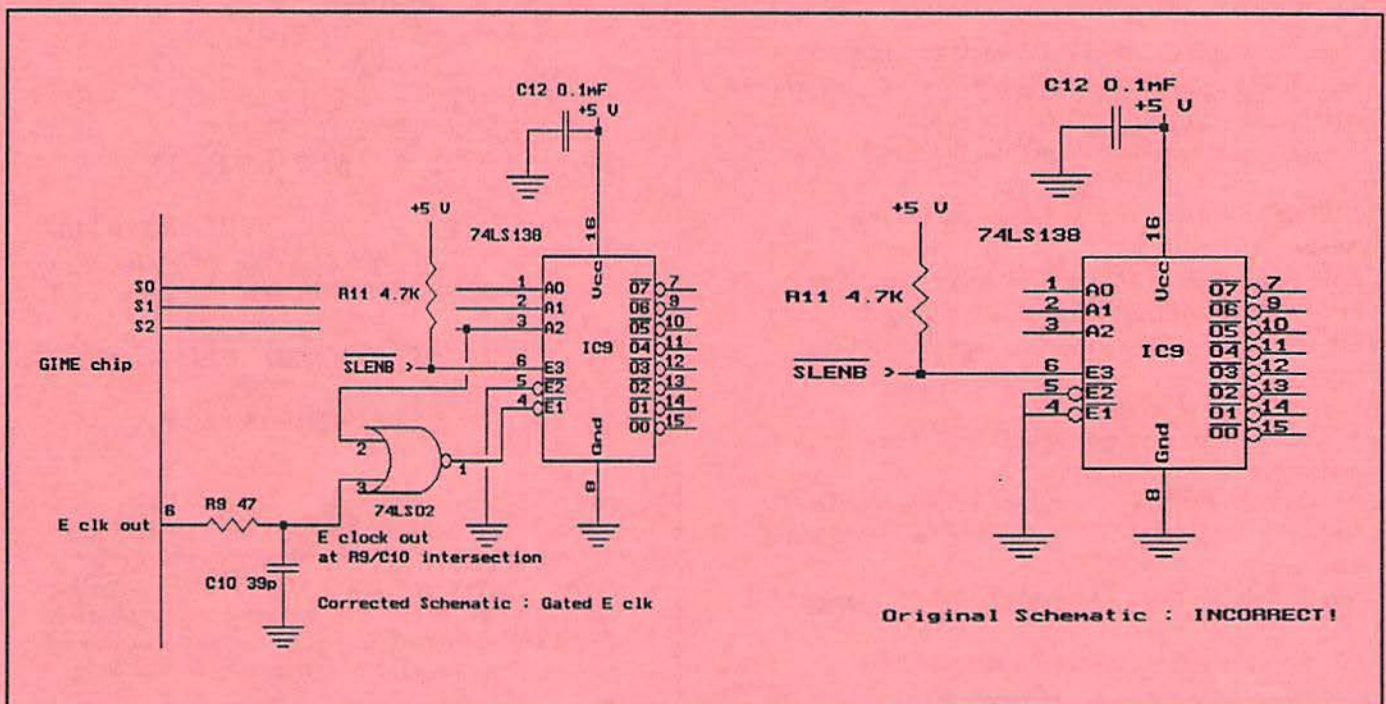
Take a 74LS02 NOR gate and tie one input to pin 3 of IC9. Cut the connection between *G2A and ground. Tie the NOR gate output to *G2A of IC9 (pin 4). Tie the other NOR gate input to the E-clock output at the intersection of R9 (47ohm resistor) and C10 (39pF capacitor). R9 is coming from pin 6 of the GIME chip. Make sure you tie pin 14 of the 74LS02 to pin 16 of IC9 (+5v) and pin 7 of 74LS02 to pin 8 of IC9 (Gnd). This is not something for the weak of heart to try! At the very least you will have to remove the motherboard from the case (unless you clip IC9's little leg!) and cut a trace on the bottom of the motherboard. I cut/desoldered IC9, replaced it with a socket and built a little daughterboard which held a new IC9 plus 74LS02.

This fix resulted in the following improvements on my system -

(1) Sparklies disappeared on graphics screens under OS9. (GIME chip circa 1986)

(2) Before the fix, I had blob problems (expr. yielded ~1 in 4). I no longer have the BLOB.

(3) My Performance Perp. No Halt controller wouldn't run reliably in No Halt mode with the Burke & Burke RTC Hard Disk interface. They coexist peacefully with the fix.

*** Note: an article in "The Rainbow" said that Disto products "depended"? upon the timing not corresponding to the E clock. My personal opinion is: bull twinkies. As far as I know all Disto products should work with CoCo's 1 and 2 which do have the proper E-clock gating. Remember, that is just my opinion and all Disto users should be prepared for this fix not working. (If you put a socket in and build the daughterboard you can have it either way...)

Corrected Schematic : Gated E clk

Original Schematic : INCORRECT!

GRFDRV...a Live and Learn Story

by Rogelio Perea

There he was late at night, creating a new boot
For OS9 Level Two, a system he liked a lot
"It should be easy," the user just thought
But as things happened 'twas his foot what got shot

On and on he went with CONFIG, expecting it'd go
But no matter how he configured, the boot was a "No"
With different set ups and drivers he went through
After several FAILED tags he thought OS9GEN would do

So he built up a bootlist he wanted to "gen"
Included some drivers and the needed VDG term
Then came the task to punch up the OS9GEN command
After it finished he thought he had it on hand

Out went the MODULES disk and in the "gen-ed" one
In the back of the CoCo he quickly pressed on
The infamous reset switch as he eagerly waited
For the greenish term boot screen but again it just failed

"Maybe I'll just COBBLER, I think it should work"
So cobbler he did his working boot to a new floppy
After resetting to RSDOS and typing up "DOS"
The recurring failure accused him of being sloppy

Cursing at Microware and Tandy and even the mouse
There was no one safe from his anger in the house
The user calmed himself down suspecting the BLOB
He went on reading old CoCo mags and all OS9 docs

"What could be wrong?ùWhat is it I'm blatantly missing?"
"Why doesn't it boot?ùIs my system all bugged up?"
"Is it maybe this new SHELL or my drives need some cleaning?"
"Or is it a virus that I just won't be able to snoop?"

Oh well, there is something he did overlook

And its just the fact that they must be on every OS9 boot
He should have included them as he had space to spare
The CMDS subdirectory and GRFDRV in there!!!

Who's this mysterious user that went on so blindly?
Just look at the finish where his name should be standing
Now he knows that its better to be thorough with OS9
Since cutting corners did not mean he'd save time....

Nine-Liner I--The Number of the Beast

by Mike Warns

```
10 NA$ = "BILLGATES": 'A NAME
PICKED AT RANDOM
20 TT = 0 : 'INITIALIZE TOTAL
30 FOR CT = 1 TO 9 : 'CYCLE
THROUGH 9 TIMES (9 IS A VERY
MYSTICAL NUMBER)
40 VL$ = MID$(NA$,CT,1) :
'GRAB A LETTER
50 TT = TT + ASC(VL$)  : 'ADD
ITS VALUE TO THE TOTAL
60 NEXT CT : 'GET ANOTHER
UNTIL DONE
70 TT = TT + 3 : 'BILL IS BILL
GATES, III, AND 3 IS ANOTHER
VERY MYSTICAL NUMBER--IT'S 1/3
OF 9
80 PRINT "THE NUMERICAL VALUE
OF "; NA$ ;" IS"; TT
90 PRINT "EXPLAINS A LOT,
HUH?"
```

I hope this inspires you to send in your own little programs. They do not need to be a particular size, or even a particular language, although I would like to see programs written in BASIC09, a language most of us have but few of us use. Just make them fun, useful, or annoying.

Glenside to Sponsor Fourth Annual "Last " Chicago CoCoFest!

Here are the 5 "W's"

WHO?   The Glenside Color Computer Club of Illinois presents

WHAT?   The Fourth Annual "Last" Chicago CoCoFEST!

WHEN?   April 29th & 30th, 1995 (Sat. 10am-6pm; Sun. 10am-4pm)

WHERE?   HOLIDAY INN ELGIN (A Holidome Indoor Recreation Center)
              345 W. River Road (A city block from I-90 & IL-31S)
              Elgin, Illinois   (Same great location as last year!)
              Overnight room rate: $55.00 (plus 10% tax)
              Call 1-708-695-5000 for reservations.
              Be sure to ask for the "Glenside" or "CoCoFEST!" rate.

>>>>> YOU MUST REGISTER UNDER COCOFEST TO GET THIS RATE <<<<<

WHY?   A. To provide vendor support to the CoCo Community
              B. To provide Community support to the CoCo Vendors
              C. To provide educational support to new users.
              D. TO HAVE AN OUTRAGEOUSLY GOOD TIME!!!!!

And now, the "H" word.

HOW MUCH?   Admission:
                    $8.00 at the door, 2-day pass
                    $5.00 at the door, 1-day pass

Advance ticket sales:
                    $5.00 + SASE for the whole show or
                    $5.00 + $.50 postage & handling
                    Children 8 and under   FREE

Contact: George Schneeweiss, Treasurer
Glenside Color Computer Club
RR#2   Box 67
Forrest, IL 61741-9629

For further information, general or exhibitor, contact:
Tony Podraza, Fest Chairman
708-428-3576, VOICE
708-428-0436, BBS

Meeting Location:

Glenside Public Library
25 West Fullerton Avenue
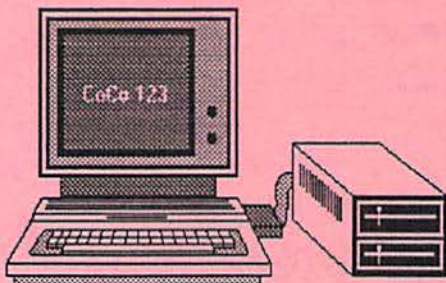Glendale Heights, Illinois 60172

Directions:
The Library is on Fullerton Avenue, about one-half mile West of Bloomindale Road.
Fullerton is about one mile South of Army Trail Road and about one mile North of North
Avenue (Route 64). Bloomingdale Road is about two miles West of Route 53/I-355/the
North-South Tollway.

Next Meeting Date
January 12, 1995

Glenside Color Computer Club
31 South Edgewood Avenue
Lombard, IL 60148

Membership Renewal Notice!!!
If there isn't a 95 Beside your
name on the label, you need to
Renew!!! Send your dues to
George today!!! See Page 2 for
his address