

# CoCo~123



Glenside Color Computer Club, Inc.  
Volume 39, Number 1

Mebane, North Carolina  
Spring 2019

## CoCo ~ 123 Memory Map

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**Upcoming Events:**

Regular meetings every 2nd Thursday @ Brian Schubring's Home  
The **29th** Annual "Last" Chicago CoCoFEST! **April 18-19, 2020**

**G.C.C.C. OFFICERS**

Here is the list of 2018 club officers and how to contact them. If you have questions about the association, call one of the officers for the answers.

<b>POSITION</b>	<b>NAME</b>	<b>PHONE</b>	<b>PRIMARY FUNCTION</b>
-----	-----	-----	-----
President	John W. Linville	919-744-8139	The buck stops here...
Vice-President	Tony Podraza	847-340-1801	Meeting planning, etc.
Treasurer	Brian Goers	708-805-1888	Dues and Purchasing
Secretary	Rich Bair	847-835-1309	Records and Reporting
Director	Tony Podraza	847-340-1801	CoCoFEST! Organizer
Librarian	Brian Goers	708-805-1888	Club Software Keeper
Editor	John Mark Mobley	847-409-8604	Newsletter Production
Assistant Editor	Salvador Garcia	708-344-3551	Newsletter Production
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John Linville



Tony Podraza



Rich Bair



Brian Goers



John Mark Mobley



Salvador Garcia

**CoCo~123 - A Glenside Publication Since 1985**

## **CoCo~123 INFORMATION**

CoCo~123 is the newsletter of the Glenside Color Computer Club. Your annual contribution of \$15.00 helps to keep our club going. Send your check to:

Brian Goers, Glenside Treasurer  
3312 Miller Avenue  
South Chicago Heights, IL 60411  
[briang0671@sbcglobal.net](mailto:briang0671@sbcglobal.net)

Our treasury provides newsletters and good times with fellow CoCo users at our Annual "Last" Chicago CoCoFEST! and our Annual Glenside Picnic.

Should you attend the Annual CoCoFEST! your annual contribution will be covered for that year.

## **CoCo~123 CONTRIBUTIONS**

If you have any suggestions for the newsletter or would like to submit an article, please contact the CoCo~123 Newsletter editor:

John Mark Mobley, Editor  
4104 Wren Lane  
Rolling Meadows, IL 60008  
[johnmarkmelanie@gmail.com](mailto:johnmarkmelanie@gmail.com)

## **CONTRIBUTORS TO THIS ISSUE**

Rich Bair	John Linville
Salvador Garcia	John Mark Mobley
Brian Goers	

## **G. C. C. C. MEETINGS**

The Glenside Color Computer Club meets the second Thursday of each month at Brian Schubring's home at 7:30 pm. If you need a map, see the following link:

<https://goo.gl/maps/2Mer1bXtTsgT5x2MA>

A social get-together we lovingly call "The Meeting After" always follows the meeting at a nearby restaurant.

Visit our website at:

<https://tinyurl.com/y2jlxwha>

## **FROM THE PRESIDENT'S PLATEN**

Time passes, the seasons advance, and once again it's time for another issue of CoCo~123. I hope that everyone appreciates the work that John Mark Mobley and others put into each and every issue of our newsletter. Even today, with the email list, the Discord server, and more Facebook groups than we know how to use, there are some folks that primarily keep-up with on-going developments in the CoCo community right here in these pages. We should all be grateful to have this regular resource.

Not much more than a month ago, over 120 of us met in person in Lombard, IL for the 28th Annual "Last" Chicago CoCoFEST! As usual this was a great event and I think it was enjoyed by all. This was our 7th year at the Heron Point location, where we have had a number of enjoyable

events and where the affordable rental rates have saved us a nice sum of money. But as they say, all good things come to an end. Shortly after CoCoFEST!, the management at Heron Point informed us that their facility will no longer be available for our event. They assured us that this was due to a number of concerns unrelated to us and not due to any problem with us specifically. Nevertheless, we need to find a new place...

There is no need to be alarmed! Several of us were already of the opinion that we needed a larger venue already, so we were already considering other options. A venue search committee has been formed, and the likes of Mike Rowen, John Mark Mobley, and others have been contacting venues, getting quotes, and communicating the results back to the rest of us. We may have to spend a bit more money than what we were spending at Heron Point, but I think it will be worth the extra cost. I hope that we will have a new venue secured soon, with an announcement for the actual dates of the 29th Annual "Last" Chicago CoCoFEST! to follow. We should know soon, so keep the faith and continue to check the website...

<https://tinyurl.com/y2jlxwha>

News aside, I have noticed (and even been a part of) a certain amount of online and social media conflicts within the community as of late. There seems to be a bit of friction between certain personalities in the community, between the cliques that have formed around them, and even between other groupings like "newcomers" versus "the old guard" and other such silliness. Some of this is natural as the overall group changes and expands, but not all of it is necessary. If you find yourself being quick to anger, eager to presume the worst about the motives of others, and unwilling to give the benefit of the doubt to your fellow CoCo hobbyists, then please take a breath, relax, and find some time to play with your CoCo, Dragon, or MC-10. The reputation you save may be your own!

In any case, I encourage us all to stick together. There have already been some folks encouraging parts of the group to splinter off to their own chat servers, their own Facebook groups, their own online forums, etc. I honestly believe that this will not be fruitful, and that despite any irritations or differences we are better off as a unified group, even as the group spreads across a variety of communications platforms. So, explore whatever alternatives you find, but share them as widely as possible with the rest of us. And if you end-up a bit too far out on the limb, I promise that the rest of us will always welcome you back.

As I draw [this column] to a close, the start of summer is upon us. While dark winter days lend themselves to long CoCo hacking sessions, not so when the days are long and the sun shines bright. I understand if you find some things to do outside and you let your Fahrfall skills get rusty. Just remember, the CoCo was there for you long

ago, the CoCo got you this far, and the CoCo will still be waiting for you when the dog days are gone. Just be sure to remember where your heart is -- CoCo Forever!

Q'plah!

John W. Linville, President  
Glenside Color Computer Club

### **Trea\$ury Note\$**

Treasure report for May 2019  
The beginning balance on May 2019 was \$10,985.44.  
Withdrawals/Debits \$1587.52, Interest of \$1.55 and  
Deposits \$2,948.07  
The end of May month balance is \$12,345.99

Brian Goers, Trea\$urer  
Glenside Color Computer Club

### **Secretary's Scroll**

Rich Bair here with a summary of the last three monthly membership meetings:

Our April meeting was devoted (no surprise!) to discussions of procedures that would make the upcoming fest go as smoothly as possible. The registration process has been a bottleneck for the last few years, and having it in the same room where presentations are being made has caused problems. Things were somewhat improved this year, and I look forward to working out a completely new arrangement when we move to our new venue next year.

The May meeting focused on the financial success of the fest. The short answer is, we did very well. The longer question is, how can we use the money we collected to benefit the CoCo community? I expect this to be a topic in several of the upcoming meetings. By luck, we also formed a subcommittee to investigate alternative venues for next year. Thus we were well prepared when news came a couple of weeks later that Heron Point will no longer be an option for us.

The June meeting concentrated on the findings of the venue search subcommittee, since it is now vital that we find a new location. The Holiday Inn in Elgin, where some FESTS have been staged in the past, was rejected because its ballroom is smaller than the space at Heron Point. But the Holiday Inn in Elk Grove Village looks like an excellent alternative. VCF Midwest has had their conventions there for several years. We authorized the venue subcommittee to work to get a signed contract with that location, and I hope that is happening as I type these words!

Happy CoCoing!

Rich Bair, Secretary  
Glenside Color Computer Club

### **The Editor's Clipboard**

We rely on people just like you to help write articles for the newsletter.

John Mark Mobley, Editor  
Glenside Color Computer Club

### **CoCoFEST! Awards Ceremony**

By John Mark Mobley

Diego Barizo is sponsoring the Asimov Awards for the best BASIC and Machine Language programs of the last year.

Link:

<https://www.facebook.com/groups/2359462640/permalink/10156952539787641/>

Isaac Asimov was an American writer of science fiction and popular science. Isaac Asimov appeared in advertisements for Radio Shack.

The Asimov Award for best Interpreted program (BASIC, Color Logo, etc.) goes to Jim Gerrie for Atari Adventure. Jim Gerrie received a trophy and a \$50.00 check.

The Asimov Award for best-compiled program (anything that generates a BIN or similar) goes to Brendan Donahe for CCVEDIT. Brendan Donahe received a trophy and a \$50.00 check.

An "Excellence in Broadcasting" trophy was given to Neil Blanchard for his work on the CoCo Crew Podcast.

An "Excellence in Broadcasting" trophy was given to Mike Rowen for his work on the CoCo Crew Podcast.



Trophy

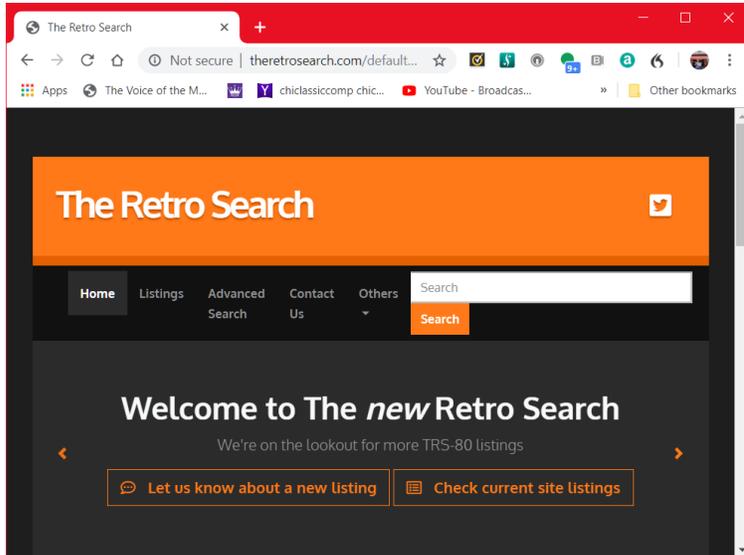
## The Retro Search

By John Mark Mobley

There is a new search engine for searching TRS-80 retro computer information.

Link: <http://theretrosearch.com/>

Link: [http://theretrosearch.com/advanced\\_search.cfm](http://theretrosearch.com/advanced_search.cfm)



**The Retro Search**



**2019 CoCoFEST!**

## The 28<sup>th</sup> Annual "Last" Chicago CoCoFEST!

by John Mark Mobley

The 28<sup>th</sup> Annual "Last" Chicago CoCoFEST! was held May 4 – 5, 2019. 122 people attended. As our number\$ were again in the black we shall have yet another CoCoFEST! in 2020.

We have secured a larger venue and have selected dates for 2020 CoCoFEST!

We come to this festival to view and purchase new hardware and software as well as socialize with others in the CoCo community. You may be inspired by something you see. You may be inspired seeing an 8-bit computer emulate Donkey Kong. You may be inspired seeing a young person write a program. You may be inspired seeing the Tandy Color Computer produce more colors in a higher resolution than would normally be possible. You may be inspired seeing how many other people are still interested in the Tandy Color Computer.

Generous people donate items to our auctions thus keeping items no longer in production out of landfills and available to others now glad to get them. You may get caught up in the excitement of the auction. Would you bid \$20.00 on a book about programming in assembly language? These auctions do keep the CoCoFEST! alive each year.

What follows are pictures of the 2019 CoCoFEST!



**Heron Point Convention Center Lobby**



Heron Point Convention Center Lobby



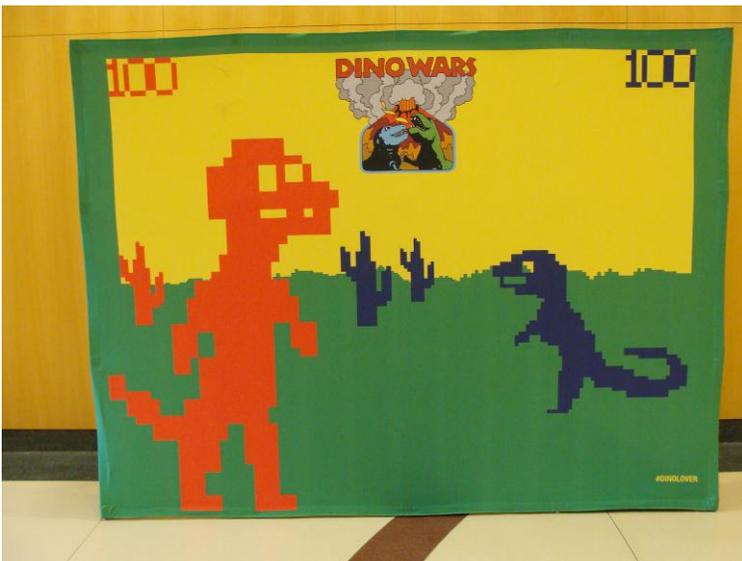
Paul Fiscarelli from Kingston NH



Newsletter editor John Mark Mobley



Simon Jonassen from Denmark



DINO WARS



Dawnne Thayer, Tim Thayer and Paul Thayer  
CoCo Brothers



**Morgan & Brendan Donahe's Booth  
Exhibiting CoCoVGA**



**William Astle, Jeff Teunissen & Jeff's Son Vince**



**Evan Wright's Booth showing "Hunt The Wumpus"**



**Eric Canales (back)**



**Exhibitor and Vendor Room**



**Eric Canales (front)**



**Exhibitor and Vendor Room**



**NitroOS-9 Ease of Use Edition  
Multi-View**



**Exhibitor and Vendor Room  
Dan Keller, Brett Gordon, and Dave Philipsen**



**NitroOS-9 Ease of Use Edition**



**Exhibitor and Vendor Room  
Ron Klein, and Dan Keller**



**HawkSoft Booth**



Henry Rietveld exhibiting RAMPAGE



Our CoCoTREK Sign in the Lobby



RAMPAGE



Tandy 1000 Running Cosmic Aliens



Radio Shack Ad



Bomb Squad - a Mine Sweeper Clone



Cosmic Aliens on the Tandy 1000



NitroOS-9 Ease of Use Edition  
Multi-View



Cosmic Aliens on the Tandy Color Computer



Neil's Computer Service / The CoCoCrew Podcast  
Neil Blanchard's Booth



**Giving a seminar in the register/sign-in room**



**Ron Klein and Tim Lindner**



**Tony Podraza conducts auction in the register/sign-in room**

## CoCo Happenings

By Salvador Garcia

2019-06-24 Ron Klein announced that the second part of his video series about the CoCoPi3 is now on YouTube.

<https://youtu.be/VPmmhA2Wf5s>

2019-06-19 Richard Sorek announced on the Facebook page that a new version of his 6809-assembly language document was available. He provided a link to the document. For those that do not use FB, contact him directly at his Gmail email account keros6809. He kindly asks for feedback. Note: This document is in French.

<https://tinyurl.com/y3n2x5h7>

You must be logged into Facebook for the above link to take you directly to the post; otherwise it will only take you to the group.

2019-06-16 D Bruce Moore shared the video "The Answer":

[https://youtu.be/T1zLq\\_R2Dic](https://youtu.be/T1zLq_R2Dic)

2019-06-13 Jeff Vavasour fans rejoice! Allen Huffman announced that Jeff will be involved in a Star Wars project with the Arcade1Up:

<https://tinyurl.com/y4f2fxqb>

2019-06-08 Richard Lorbieski of Boyson Technologies made an important announcement on CoCoTALK! He basically mentioned that he plans to make some of his designs open source. Listen to the original announcement here:

<https://youtu.be/pPFKIn0C-Nk?t=1873>

2019-06-08 Ron Klein published a video describing the install process for the CoCo Pi3 software for first time users.

<https://youtu.be/uge-P5NPB2Q>

2019-06-03 Pierre Serrat announced the availability of version 0.1.59 of CMOC, the 6809 cross compiler for the C language (or at least most of the C language).

<http://perso.b2b2c.ca/~sarrazip/dev/cmoc.html>

2019-05-31 John W. Linville announced the availability of episode #48 of the CoCo Crew Podcast.

<http://cococrew.org/>

2019-05-29 Brock Harrison published the article "One Step Forward: Encouraging Competition in the Vintage Computing Marketplace":

<https://www.docdroid.net/cClaOjI/one-step-foward.pdf>

2019-05-27 Boisy Pitre published the article "Stepping on Toes: Addressing Duplication of Hardware in the Vintage Computing Marketplace" on Vintage Is the New Old website

<https://tinyurl.com/y3lrc3y6>

2019-05-15 L. Curtis Boyle announced that the Beta 4, Release 2 of NitrOS-9 EOU (Ease of Use) has been released.

2019-05-13 Ciaran Anscomb announced a new release of his XRoar CoCo emulator for Macs.

<http://www.6809.org.uk/xroar/>

2019-04-29 Neil Blanchard announced the Call for paper for the CoCoFEST 2019. Although this event had passed, the information page is worthy of a look-see for anyone interested in this project for next year.

<https://tinyurl.com/y5s8er8n>

The papers submitted this year can be found at the following link:

<https://tinyurl.com/yxrn38y>

2019-04-18 Henry Rietveld shared the video link of the second part of the Dragon 32 video that he shared earlier.

<https://youtu.be/7NUhKTe12v0>

2019-04-15 Ron Klein announced the availability of the most recent version of the CoCo Pi3 software bundle, CoCoFEST 2019 Release Edition.

2019-04-13 Michael R. Furman announced the latest release of pyDriveWire v0.5, the DW 4 compatible Python project. This version now has support for the EmCee Protocol for use with MCX Basic on the TRS-80 MC-10. Download at:

<https://github.com/n6il/pyDriveWire>

2019-05-09 Bill Pierce announced that he is posting the latest version of his NitrOS09/OS9 MShell File manager application. He also mentions that this might be the last update. Link to download the app's ZIP file:

[http://yaccs.info/BPIERCECOCO/MShell/MShell\\_1.0.3w.zip](http://yaccs.info/BPIERCECOCO/MShell/MShell_1.0.3w.zip)

2019-04-04 Henry Rietveld shared an interesting video about the Dragon 32:

[https://youtu.be/1mgeeG\\_1qls](https://youtu.be/1mgeeG_1qls)

2019-04-02 Diego Barizo announced that the Asimov Awards were returning. As of the date of this newsletter's publishing, all programs written for the CoCo after the 2019 CoCoFEST! are eligible for next year's competition. On your mark, get set, code! More info here:

<http://yaccs.info/AA/aa.html>

## 28<sup>th</sup> "Last" CoCoFEST! Highlights

By Salvador Garcia

### The Raspberry Pi 3 CoCo project

CoCoPi3 is the implementation of a CoCo 3 emulator on the Raspberry Pi 3. This movement was initiated years

ago when HawkSoft demonstrated a normal looking CoCo 3 that had a hidden secret.

At first glance, it looked like a normal CoCo 3; however, when examined more closely certain aspects stood out. The first was an HDMI video output port. What? HDMI on a CoCo? How was this possible? Another oddity was that the cartridge slot couldn't accept a cartridge. It just didn't look right. "What is going on here?" many asked.



When Chris Hawks, the mind behind this peculiar CoCo, removed the cover there was no 6809 to be seen. Instead, there was the ubiquitous Raspberry Pi! A Raspberry Pi powered CoCo?

Yes. Chris had performed a few tasks to accomplish this:

- He compiled a special version of MAME (Multi Arcade Machine Emulator) to include only the CoCo emulator. This reduced this program in size to make it more Pi friendly.
- He used an extra CoCo 3 case to house the R-Pi and associated electronics.
- He designed a special interface that connected to the Pi and a genuine CoCo keyboard so that MAME could use an original CoCo keyboard instead of the standard PS/2 USB keyboard.

Chris' marvel has been a centerpiece at his booth for a few years.

Others have taken his design a step further. Ron Klein assembled a software package that includes Raspbian, the CoCo edition of MAME, and other software bundles. This build is available as a downloadable ZIP file from three sites. Although it is a heavy download at just over 8GB, it contains all the necessary components to just plug and go. We just need to transfer the image file to an SD card (32GB preferred) using the recommended software. A detailed how-to introductory video, also by Ron, is available at the following URL:

<https://youtu.be/uqe-P5NPB2Q>

## RETRO Innovations

RETRO Innovations' Jim Brain and his daughter have been regular exhibitors/vendors for a good number of years. While Jim has satisfied our techie appetite with an ever-growing number of CoCo accessories, his daughter Belle has been satisfying our sweet tooth with her delicious cookies and pastries, not to mention her hi-tech jewelry.

Among other products, the following were visibly featured at the RETRO Innovation booth:

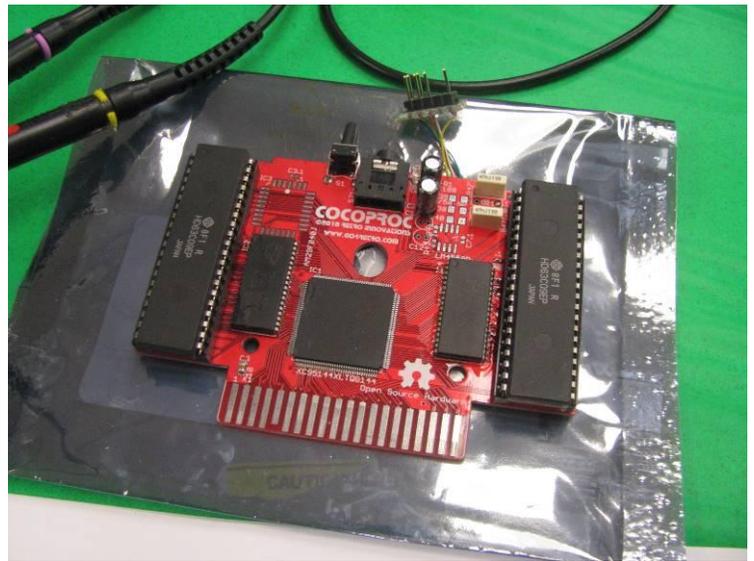
**ChameleonCart.** This is a device that plugs into the cartridge port and has a passthrough connector so that another cartridge can be plugged into it. The Chameleon includes 512K of flash memory and another 512K of static RAM, a real time clock and a stereo sound device based on the Yamaha YM-262.

**CoCoQuadLink.** This is a cartridge whose main feature is 4 serial ports, 2 based on the 65C51A ACIA chip and the other two on the ST16C550 UART. Additionally, the cart also includes 512KB of programmable FLASH memory and a connector for an ESP-8266 WiFi module.

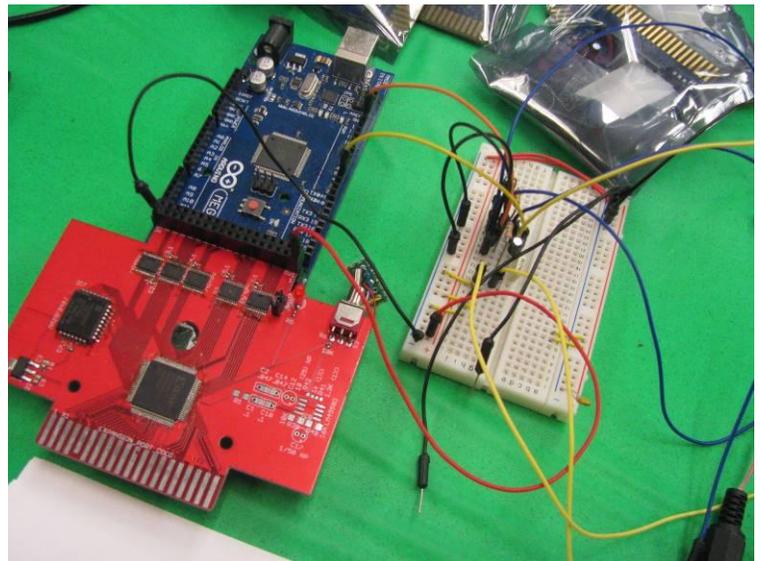


**CoCoProc.** This cartridge contains two 63C09Es that can be used as coprocessors to enhance the functionality of the Color Computer. Turn your CoCo into a multiprocessor machine! 1MB of RAM is onboard. Each processor can access 512KB of this resource and the main processor can access it all. As with the other cart boards, the CoCo Proc includes 512KB of flash memory.

What is needed now is the right software to take advantage of the three processors. Hopefully, sometime in the future, will see OS-9 or NitrOS9 updated to support this new hardware expansion.



**CoCoDunio.** Another cartridge that provides the glue logic needed to interface the CoCo with an Arduino, permitting bidirectional communication. To boot, the cart also includes 512KB of flash memory.



## GIMEX

Covertly, without fanfare, Gary Becker demonstrated the fabled GIMEX at his booth. The GIMEX is a drop-in replacement for the GIMME chip and is currently being developed by Gary and Ed Snider. The project is close to completion. Stay tuned for more information about this product. The excitement is high for this product!

What this means to the community is that possibly dead CoCo 3s can be brought back to life. If a GIME fails, the CoCo becomes a brick. Out of all the components inside the CoCo 3, the GIMME is one that is hard to find, if at all. Talking to Mark (of Cloud-9), he mentioned that he bought a tube of GIMME chips back in the last century and each had a cost of roughly \$80 USD. Contact Mark if you need a GIMME, but even these are in limited supply. Once they're gone, they're gone!

Enter the GIMEX. This is a faithful reproduction of the GIMME chip that can drop into the GIMME's socket.



Although development is still underway, the project is far enough along to be able to have a demonstration of its capabilities. We all hope to hear good news from Gary and Ed soon.

### Call For Papers

Boisy Pitre started a new tradition at the 2018 CoCoFEST! He made an announcement motivating innovators to create written articles about their adventures in CoCoing. The objective was to get more information in the hands of the community. The paper should describe the project, make comments on why it is important, and provide notes on how the project can be improved or a direction that further development could follow. As Boisy mentioned, there was about double the number of papers compared to last year. If you are tinkering with a technology, have a good idea for the community or just want to share works in progress, consider doing a write-up for next year's call for papers.



This year, the papers submitted were the following:

***The Micro:bit as a Color Computer Accessory*** by Brendan Donahe

***DwTerm*** by Michael R. Furman

***pyDriveWire*** History and Motivation by Michael R. Furman

***Benchmarking CF83 Forth*** by M. David Johnson

***Made in the U.S.A. - Are American CoCo 3s Quality Challenged?*** by Boisy G. Pitre

The home page for 2019 is at the following link:

<https://tinyurl.com/yxrn38y>

### CoCoVid

Another staple at this and past shows is John Linville's CoCoVid. This is a hardware and software solution to allow the CoCo to display videos. John proudly showed Star Wars (1977) on the CoCo. Granted, its definition was not as great as Eric Canales' laser disc version, which was also showing, but still is an impressive feat.



John has mentioned that he hopes others take an interest in this project and move it to the next level. Word about was that there was someone interested in enhancing this video player. We can only hope that this is the case.

### CoCo Arcade 1Up

Another attraction at the fest was Henry Rietveld's Arcade 1Up machine. He gave the console a serious makeover by installing a modern computer and using the VCC emulator as its heart. He added an interface to an arcade control panel consisting of buttons and a joystick. Along with a menu system and a bunch of games he was able to give this CoCo emulator the look and feel of a real arcade game.

The finishing touch was using an image of the CM-8 monitor bezel created by Tim Lindner.



### Switch-A-Roo

Cocoman was on hand with his flagship product the Switch-A-Roo. Jason Reighard, the man behind Cocoman, took an idea by Barry Nelson and produced the Switch-A-Roo, a cable that connects the Color Computer 3 to a SCART device. One such device is a SCART to HDMI converter. Having this chain of components, the CoCo 3 can display its awesomeness on a modern HDMI monitor or TV. This design, using the Switch-A-Roo and an extra off-the-shelf component, is an economical way to display the CoCo 3's screen on a modern display.

Also being featured at Cocoman's booth was the WallabY cable. This cable, simply put, allows us to have two RGB display devices attached to the CoCo 3. And yes, one of those devices can be the Switch-A-Roo.



### Triad+

Cloud-9 was present at the event with its ever-diverse selection of CoCo related products. From CPU protectors, PS/2 keyboard adapters, tools, cartridges and RAM expansion cards. The main RA expansion card is the Triad, a 512KB expansion board for the CoCo 3.

Using modern RAM chips, the Triad uses only a fraction of the power required of the original 512KB expansion board.

This year, Cloud-9 had a new product, the Triad+. Like its predecessor, this product is a RAM expansion card; however, the difference being that it was a 2MB expansion. This was an impossibility back when the original 512KB RAM card debuted.

Along with the myriad of products, Cloud-9's Mark Marlette was also on hand to repair ailing CoCos. He spent most of his days (and some nights before security would escort him out of the exhibition area) repairing as many CoCos as he possibly could.



### Boomerang

Boyson Technologies was also present. Just like Mark, Richard Lorbiecki is usually on hand to help us all with the repair of our CoCos. Alas, he was under the weather this year and was not able to personally attend; however, his booth was present and well staffed by community members.



Richard is also a vendor of RAM expansion cards. His product the Boomerang, is a 512KB RAM expansion card

for the CoCo 3. This year he came out with a new model. He renamed the original model to "Boomerang Classic" and named the new model Boomerang E2. The new model boasts 2MB of RAM.

### CoCoVGA

Brendan Donahe was also present showcasing his CoCoVGA product. This product, for Cocos 1 and 2, allows the CoCo to display its screen on a VGA monitor. Note that this product is not for the CoCo 3. A huge plus of CoCoVGA is that it fits inside the CoCo. There is no external component. Brendan was kindly installing the CoCoVGA for people who bought his product.

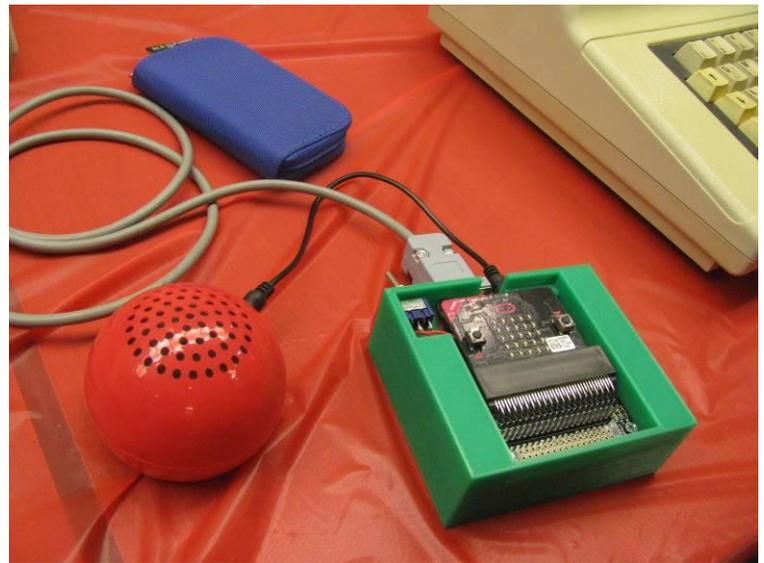


I recall talking to him about this product years ago when he was finalizing the design. I got to see the product fully functional. This is a practical alternative to display the CoCo screen on a VGA monitor since there is no need to carry any other stuff.

Also on display was this oddly interesting looking thing. It looked like a micro:bit card connected to a red spherical speaker. Brendan tells me that this is a speech synthesizer using the micro:bit card. It connects using the CoCo's serial port, lovingly (or unlovingly) called the bit banger port. The software running on the CoCo can send either ASCII codes or allophones that the micro:bit processes and reproduces as speech through the speaker.

The micro:bit product is not an Arduino. You can't fire up the Arduino IDE and use it to program the micro:bit. The concept is similar in that the program is created on your Windows/Linux/Mac OS computer (it also supports Chrome Book) and then downloaded to the micro:bit. For those interested or just curious, here is a 6 minute video on how to get started with micro:bit:

[https://youtu.be/ZIW\\_6rxYNBq](https://youtu.be/ZIW_6rxYNBq)



Brendan's contribution to Call for Papers discusses this in much more technical detail, including a pinout for the serial port and plenty of source code. Let's make the CoCo sound like Colossus!

### Epilog

A noteworthy event that was a highlight of the show was the visit of a special guest, George Schneeweiss. He celebrated his 98th birthday on May 24th. He has been an active member of the Glenside Color Computer Club for over three decades recently serving as its treasurer. Everyone took a moment to celebrate him and hoping that he will be in good health to join us again next year.



Next year will be an epic, as we celebrate 40 years of the Color Computer. See you all next year!

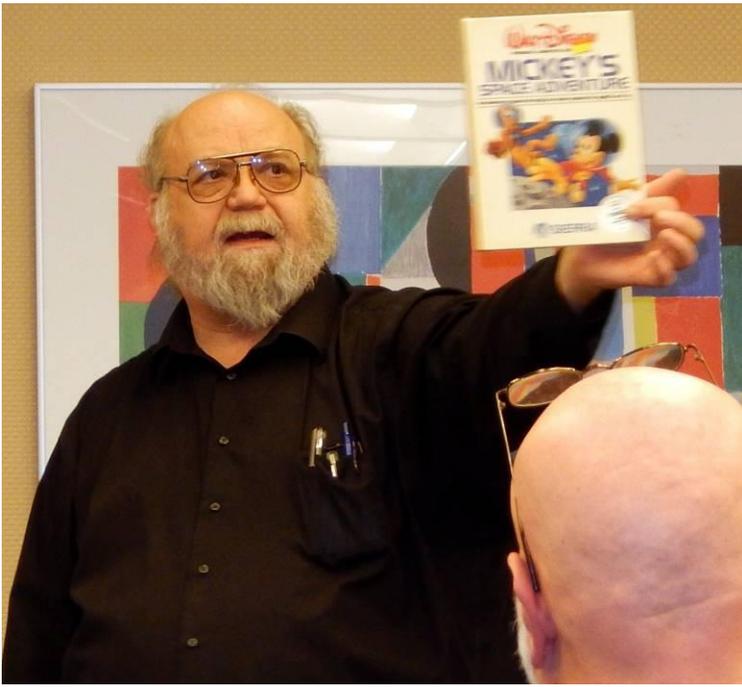
## News on Tony Podraza

By John Mark Mobley

Tony is having heart problems. Send prayers and/or nice thoughts his way.

You can also check out the following Facebook pages:

<https://www.facebook.com/linda.podraza>



Tony's walkin' in Texas



## Calendar of Events

by John Mark Mobley and Salvador Garcia

See our website's Calendar of Events:

<http://www.glensideccc.com/calendar/index.shtml>

### Glenside Color Computer Club, Inc. Business Meetings

July 11, August 8, September 12, 2019

Thursdays, 7:30 PM to 9:30 PM Central Time

Brian Schubring's Home

2131 Mallard Ln

Hanover Park, IL 60133

Blue Jeans teleconferencing access is available via John Mark Mobley or John Linville. You can call in.

### Southern-Fried Gameroom Expo

July 12-14, 2019

Renaissance Atlanta Waverly Hotel & Convention Center  
Atlanta, GA, USA

Link: <http://southernfriedgamerroomexpo.com/>

### KansasFest 2019 (Apple II Forever)

July 16-21, 2019

Rockhurst University

Kansas City, Missouri, USA

Link: <https://www.kansasfest.org/>

### Cleveland's Classic Console & Arcade Gaming Show

July 20, 2019

North Olmsted Soccer Sportsplex

31515 Lorain Rd.

North Olmsted, Ohio, USA

Link: <https://www.ccagshow.com/>

### Vintage Computer Festival West

August 3-4, 2019

Computer History Museum

1401 N. Shoreline Blvd.

Mountain View, California, USA

Link: <http://vcfed.org/wp/>

### Vintage Computer Festival Midwest 14

September 14-15, 2019

Waterford Banquets/Clarion Inn

933 S. Riverside Drive

Elmhurst, IL, USA

Link: <http://vcfmw.org/>

### Milwaukee Maker Faire

September 13-15, 2019

Wisconsin Center

400 W. Wisconsin Ave

Milwaukee, WI, USA

Link: <https://milwaukee.makerfaire.com/>

What is a Maker Faire? Go here:

<https://makerfaire.com/>

## Tandy Assembly

September 27-29, 2019

Courtyard by Marriott

100 S. Fountain Ave

Springfield, OH, USA

Link: <http://www.tandyassembly.com/>

## The 29<sup>th</sup> Annual "Last" Chicago CoCoFEST!



### Make The Trek!

Here are the 5 "W's"

WHO? 1) Glenside Color Computer Club, Inc.  
PRESENTS

WHAT? 2) The 29th Annual "Last" Chicago CoCoFEST!

WHEN? 3) April 18-19, 2020

Registration & sign-in: (Sat. 8 am-9 am)

Show: (Sat. 9 am to midnight - Sun. 9 am-3 pm)

WHERE? 4) Holiday Inn Elk Grove Village  
1000 Busse Rd

Elk Grove Village, IL 60007

(New location from 2019!)

Overnight room rate:

\$99 plus 13% tax (\$111.87 Total)

Call 1 847- 437- 6010 for reservations.

You must ask for the "CoCoFEST!" rate or  
Group Code: CCF.

>>> YOU MUST REGISTER UNDER "CoCoFEST!" <<<  
>>> TO GET THIS RATE <<<

WHY? 5)

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

And now, the "H" word.

HOW MUCH? All Attendees - General Admission

Both days: \$TBD 1st – \$TBD 2nd & more

Sunday Only: \$TBD 1st – \$TBD 2nd & more

\*\*\*\*\* Children 12 and under - FREE \*\*\*\*\*

\*\*\* Students 21 and under with valid Student ID - FREE \*\*\*

For further information, general or exhibitor, contact:

Tony Podraza, GCCCI Robert Swoger, GCCCI

847-428-3576, VOICE 630-589-4692, VOICE

[tonypodraza@gmail.com](mailto:tonypodraza@gmail.com) [rswoger@aol.com](mailto:rswoger@aol.com)

Be sure to visit our Website to see up-to-date information  
on upcoming events. <https://tinyurl.com/y2jlxwha>