

COMPUTER USERS OF ERIE

CUE Newsletter – April 2021 (Volume 38 Number 4)



April CUE Meeting

The next CUE members' meeting is on Thursday April 15th at 7:00 PM, by a Zoom link in your email. We will watch a video from Ron Brown about Purchase Considerations for a Printer in 2021.



Visit the CUE
Website at:

www.cuerie.com

CUE is a member of APCUG



An International
Association of Technology
& Computer User Groups



CUE Calendar



Calendar events are subject to change. SIG stands for Special Interest Group.
(look for notices outside of the newsletter for delays or special news on meetings)

CUE Membership Meetings (typically 3rd Thursday of each month)
Thursday April 15th at 7 PM
Thursday May 20th at 7 PM

Beginner's User Group (BUG) SIG Meetings
To Be Scheduled Upon Request

Digital Photo SIG Meetings (typically 1st Saturday of each month except June/July/August)
Saturday April 3rd at 9:30 AM
Saturday May 1st at 9:30 AM

Genealogy SIG Meetings (typically 1st Tuesday of each month)
Tuesday April 6th at 7 PM
Tuesday May 4th at 7 PM

MAC SIG Meetings (typically 2nd Saturday of each month except June/July/August)
Saturday April 10th at 9:30 AM
Saturday May 8th at 9:30 AM

Smartphone & Tablet SIG Meetings (typically 4th Monday of each month) (RSVP John Fair)
Monday April 26th at 7 PM
Monday May 24th at 7 PM

Windows SIG Meetings (typically 2nd Saturday of each month except June/July/August)
Saturday April 10th at 1 PM
Saturday May 8th at 1 PM

Purchase Considerations for a Printer in 2021

At the Virtual CUE Meeting on 4/15/21 at 7 PM, we will watch a video from Ron Brown, who is the Program Chair of the Computer & Technology Club in Arizona. It is from the APCUG 2021 Winter Virtual Technology Conference.

We will explore choosing a printer, including options of a scanner, copier, and printing pictures. On-line services in your community and recent changes at Costco will be covered, as well as CUE members providing their insight and experience.

CUE Election

Election of officers and board members will take place on the web. You will receive details on how to vote. Be ready to vote and/or run for a position with CUE.

The following 2021-2022 Candidate Slate is proposed for CUE Officers. Be ready to vote for the following names, or for any write-in candidates that you choose.

President: **Conrad Sobczak**

Vice President: **Paul Francis**

Secretary: **Susan Mueller**

Treasurer: **John Fair**

At-Large Board Members:

Janice Castro

Don Grim

Marcia Keller

Hal Kelley

Suzanne Matthews

Alternate At-Large Board Members:

Louis Cioccio



Do SSD (Solid State Drives) Fail

By Lou Cioccio at Computer Users of Erie

Yes, like all things, whether it's an inanimate object or a life form, they eventually succumb to an end.



Here is a Sandisk (I removed the label) to see how it came apart. It has no screws but snaps together. Yes, the printed circuit board is less than half size. In fact, if you have a SD card that you use in your camera, it's smaller than the package. If you ever saw those micro chips that insert in a SD Card, it is small!!

Well this particular drive was installed in a Channel Master DVR+, one of those on air TV recorders that has a built in tuner that you can record two on air programs at one time, or all the new ones of a series. I installed it back in 2019 as a replacement for the mechanical hard drive (2.5" laptop type) that also died. Now with the

mechanical I was able to read and copy the video files to our computer.

This particular drive will no longer read, NOT because I took it apart, but it would never mount giving me the suspicion that the controller chip has bit the dust. Now this setup is in the entrance room with the TV, Android TV box, Apple TV Box plus a Wifi Mesh and a Wifi access point and a 10 port switch, all of which still work.

Since I do not have a surface mount type solder station, and by seeing the small middle chip, I will assume that is the controller chip. The two Large Chips plus, on the other side, are Identical Large Chips, which are the writable memory chips, which total to 1 TB.

Just be forewarned that you need to be aware that Hard Drive mechanical or Solid State can, and will, fail so make sure you backup, then another backup and maybe a third one, as it's called redundancy! So that if a failure happens, you may be able to have something to fall back on. Was it on Warranty? Probably but, having too many activities, I put off till today and found that I should have checked when it died.

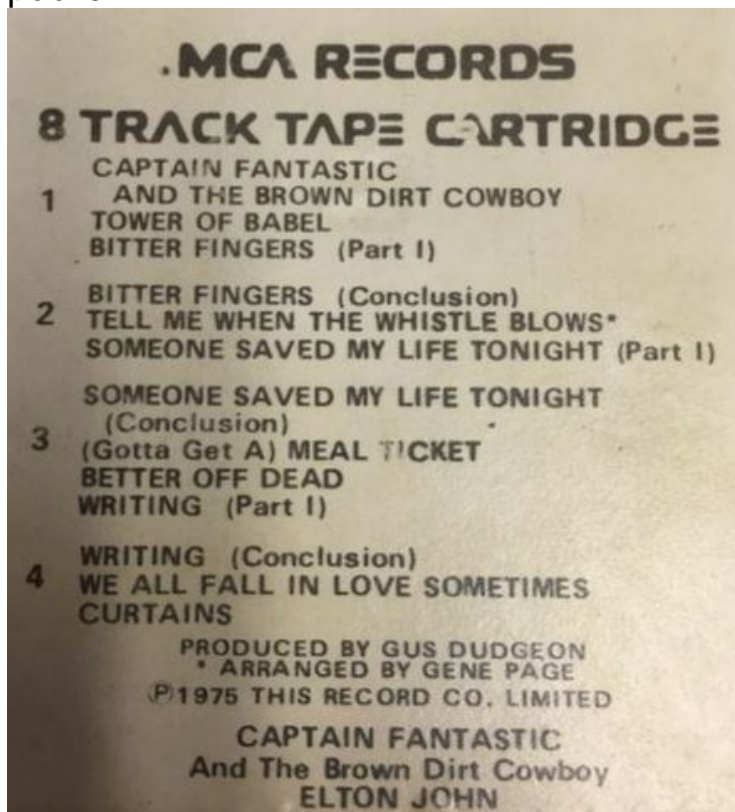
You can go to the manufacturer website and check what kind of warranty, and what the length is, and maybe write the expiration date on the device. That way you'll know.

8 Track Reminiscing

By Don Grim at Computer Users of Erie

Oh, the 8 track tape cartridge in the 70's! It was the only option for mobile music at the time. I would play 8 track tapes in the car each day commuting to college from 1975 to 1979.

It probably took some advanced math and/or computer programming for 8 track manufacturers to fit the songs of an album in the 4 program channels. Sometimes they would repeat a song or two to make things fit. For the Elton John Captain Fantastic 8 track album (pictured below), they kept the songs in order, since it is an autobiographical album. To keep the order, they had to "split" songs between channels, for three songs. At the middle of each "split" song, it would fade out, click to the next channel, then fade the song back in to finish the song. It was an irritating way to hear a song and not a very thoughtful consideration for the buying public.



Though a teenager at the time, I had a lot of knowledge and experience on 8 tracks. I had an 8 track recorder so I would make my own 8 track tapes. I would play select album cuts and singles while recording them to 8 track. There was prep work before any recording. I would have to "do the math" to make things fit, then record to 8 track! Yes, I was a math major in college.

When the Pinball Wizard song was on the radio in 1975, there was no single in the US so I ordered the UK version of the single by mail. I liked it so much that I recorded just that song on 8 track, cut out the rest of the tape, including the auto channel changer (silver part on the tape). Then that 8 track played Pinball Wizard over and over! I played it with some friends traveling with me. They were puzzled and said "the song keeps repeating". I said, "Yeah, isn't it great"!

One day, I decided to open the Elton John Greatest Hits 8 track, because I had all those songs on other albums anyway. I flipped the tape over, closed it back up, and all the greatest hits played backwards! Elton's voice sounded Russian and the piano sounded like an organ. It is more comical than musical, although Daniel Backwards still sounds pretty musical and Goodbye Yellow Brick Road Backwards sounds haunting. Decades later, I brought those same songs from a CD into a musical editor that allowed me to reverse them. The songs sounded just like I remembered them on 8 track years ago! I reversed one song twice and it sounded like the original, so I knew the reversing was working properly. There are no

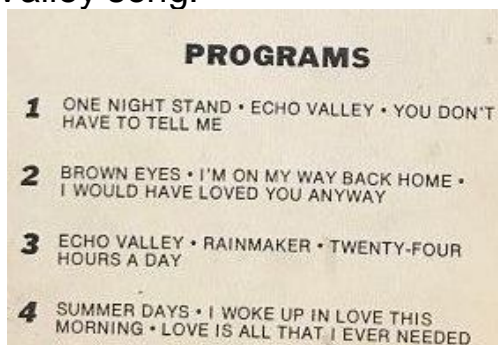
8 Track Reminiscing Continued

special messages backwards for those songs. Though on Daniel Backwards, it sounds like “S’il Vous Plait” at the 1:03 and 2:04 sections of the song.

As a teenager, I had a booklet that taught how to fix 8 track tapes, including cutting and splicing tape. I was the person in the neighborhood that fixed your 8 track. I did it for free. The most common problems were that the 8 track player would sometimes eat the tape, and the music would get slower, which required me to clean off residue on the rubber wheel.

Could there have been an easier solution for arranging songs on an 8 track tape? With hind sight at 20/20, I would propose keeping the songs in order and just having “dead space” (silence) at the end of certain channels. There is a button on an 8 track player to go to the next track. You could press that when you’re at dead space. Just a thought. The 8 track manufacturers probably didn’t want to waste tape. It would also be difficult if you are busy working while the 8 track plays. You’d have to go over to the player to change the channel.

When I look at the one Partridge Family 8 track album that I have from the 70’s, titled “Sound Magazine”, I see that they fit the 11 songs to 4 channels by repeating the Echo Valley song.



I researched the Partridge Family albums at discogs.com. That website allows you to find almost any albums or singles. It will give you song listings and pictures of albums or singles, in CD, vinyl, 8 track, and cassette. While many albums in the 70's would have 10 songs, I see that every Partridge Family album, EVERY ONE, had 11 songs, for all 8 albums from 1970 to 1973, which includes a Christmas album. The 8 tracks for those albums have songs fitting on channels without splitting a song between channels. There is one exception though. The song, called “Love Must Be The Answer”, on the Notebook album, is split between two channels. I guess there was no “answer” for that one!

I still have an 8 track player that I bought from Sears in the 70's. It still works though I bought another 8 track player not too long ago on ebay in case the Sears model dies. I don't have my 8 track recorder from the 70's. I gave it to someone else. You can't record 8 tracks anymore anyway. Blank 8 tracks just aren't sold in the stores, just like there is no film available for old cameras. I still have 8 track tapes from the 70's, including 8 tracks of all of the early Elton John albums.

The 8 track age is part of the past with better options for mobile music now. It is nostalgic though and a part of the fantastic 70's musical decade!



8 Track Reminiscing Continued



Anatomy of an 8 Track. The rubber wheel is at the top right. The tape turns forever in a circle.



The 8 track cartridge opens to two half shells.



The silver foil signals a change in channels.



Links: www.hemmings.com/stories/article/8-track-tapes

www.youtube.com/watch?v=GwPCon07Gjs

Genealogy Report for 3/2/21 SIG Meeting

The CUE Genealogy SIG, organized by Sue Mueller, met via Zoom on March 2, 2021. Eleven members and one guest attended.

Carl was interested to learn how others communicated with family members in foreign countries. Conrad shared his tips on this including Google Translate as well as utilizing Facebook groups for various ethnicities.

Sue suggested two helpful websites:

- randymajors.org which is a research hub for mapping tools including genealogy. You can subscribe to email updates.
- learnwebskills.com which is connected to the DAR but will help with wills, probate searches etc.

Pat Mickel participated in the free online RootsTech Conference 2021 sponsored by familysearch.org. Any video classes selected during the event will be available for the next year. Pat especially enjoyed the Relatives at RootsTech which connected attendees who shared common ancestors.

Hal Kelley is interested in hearing from anyone who is working on writing their family history. Sue's fourth Tuesday event in May will discuss adding social history to your family story.

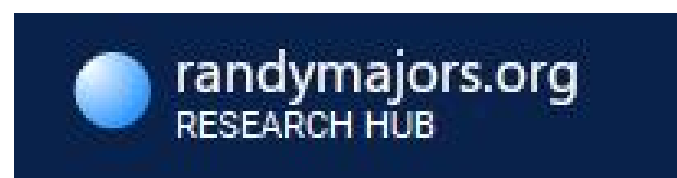
Guest, Jack Graham reminisced about his time as a junior scout leader and the effect scouting had on the members.

Submitted by Connie Edwards



 **Discover Your Story**
Join the world's largest
online celebration of family

25-27 February 2021 | Rootstech.org 



Smartphone & Tablet Report for 3/22/21 SIG Meeting

How many CUE members will sign in to a virtual meeting if they aren't sent a Zoom link ahead of time? In my experience: eight! That's what I discovered when I didn't send out the link ahead of this SIG meeting. Mea culpa! Thanks to those who sent me texts and called my cell to get the link. I apologize to all those who missed the meeting due to my error. How it happened is a story that would only add to my embarrassment so I won't go into it here. From now on I will send the link out twice.

After sorting out the link difficulty we started the meeting with a discussion of the latest update to iOS and iPadOS designated 14.4.1. Having a .1 attached usually means Apple is acknowledging a serious problem and is sending a patch to fix it. This time it was a vulnerability in WebKit, the browser engine used by Safari and all third party browsers on Apple mobile devices. All users were urged to update to this OS version ASAP.

For the first time, Apple has allowed you to choose alternative default browsers and email apps. So you can go to Settings, select the browser or mail app and then tap on Default Browser or Default Email App. If you have them installed, you can use Chrome, DuckDuckGo, Firefox or even Edge as your default browser and Outlook or others as your default mail if you wish. We reviewed the many reasons to continue using Safari such as the privacy report accessed by tapping Aa in the url bar to see the number of trackers Safari is actively blocking. Then tap on Privacy Report and get detailed logs of the ad trackers blocked, etc. We used LastPass, Bitwarden and Facebook as

examples. I will stick with Mail because it is the preferred app on my Mac. Several neat features including sorting the mail by date, from, to and subject make it my go to mail app.

Another privacy feature Apple introduced requires app developers to be up front about the information their app collects and the purpose for which it is being collected. To see this feature go to the App Store, select an app of interest and scroll toward the bottom of its page until you see App Privacy. Tap on Details to see the information being collected and how it is being used. With the next release, iOS 14.5 and iPadOS 14.5, each app will ask for your permission for to collect data and use it to "serve you better ads." Facebook and others have opposed this privacy feature for obvious revenue-related reasons.

Users with many apps find it convenient to use Search or App Library to locate apps rather than swiping through many Home Pages. If you are one of them, you can even hide some of those Home Pages. Press on any unoccupied area of a page to enter Edit Mode with the app icons jiggling. Then long press on the row of page indicator dots and a view of all your Home pages appears. Remove the check marks of all pages you don't want to see and tap done. Those pages will be hidden from view but the apps on them can be found in Search or the App Library as they are not removed.

Many users carefully arrange apps and widgets and don't want newly downloaded apps to disturb their arrangement. Go to Settings/Home Screen and under Newly

Smartphone & Tablet Report Continued

Downloaded Apps select App Library Only. New apps will appear in the Recently Added category of the App Library but will not be inserted into any Home Page. If you find you like the app, you can always tap and drag it to a Home Page spot.

One of the rather odd improvements of late involves the Hidden Album. Photos allows you to “hide” photos you don't want just anyone to see by putting them in a special album called the Hidden Album. But anyone familiar with Apple mobile devices knows about this album, so Apple gave us the tool to hide the Hidden Album from the Utilities list in Albums. Go to Settings/Photos and turn off Hidden Album and it will no longer appear in Albums. Photos that are hidden are not removed by this action and you can again see them by turning on Hidden Album. But they are really not hidden from anyone familiar with Apple mobile devices, leading me to wonder about how useful this really is.

Another obscure item is Face Time eye contact. By turning on Settings / Facetime / Eye Contact, your device adjusts your screen image to make it appear you are looking into the camera during a Face Time call when you are actually looking at the screen. A small but useful feature that was on by default on all my devices.

Scribble is an impressive technology that converts handwriting into typed text on certain Apple hardware. We saw just how good it is by demonstrating with my rather poor handwriting using my Apple Pencil and iPad Pro. Scribble works with many languages and in any text field in Mail, Notes, Pages and Safari, but doesn't yet work on some third party apps. This is amazing technology, but my preference is

still to type. Scribble may be most useful in Notes. Not only can you Scribble with the Apple Pencil but you can draw with it. The software will correct rough geometric shapes if you pause once the rough figure is drawn.

We shared how everyone uses Notes to keep records of important facts and other information. Notes has a built-in document scanner that is very handy. Open a new note, touch on the camera icon, tap on Scan Documents and hold the device so that the document can be seen on the screen. When the whole document is sensed the document image is highlighted and the scan is completed automatically. The scanned document is put in a PDF file and more pages can be added to the file by repeating the steps above for each page. Then tap Save and the document is ready for mark-up, signing, printing and sharing or just storing in that note. Many of us use this feature to record purchased items for warranty purposes, copy business cards, and retain vital records like your vaccination card, etc.

We ended the session by watching a video by Marques Brownlee: “What I REALLY think of the iPhone”. This is a long term review of his 5 months experience with the iPhone 12 Pro. He addresses the Apple ecosystem and why the iPhone is suited for most people despite a few flaws. His parents both have iPhones.

Next month we will meet virtually at 7 PM on April 26 and all CUE members are invited. This time I will send out the meeting link twice.

John Fair

Secretary's Report for 3/18/21 CUE Meeting

The members of Computer Users Of Erie (CUE) met remotely on the web with a Zoom video conferencing link.

There were 29 people in attendance. Their names on screen were names they chose as login names. Their names on screen were John Fair, Don Rhodes, Jodi Schersten, Charlie B, Paul Francis, Sue Mueller, Judy's iPad, Zoom User, John Szympruch, Beverly, Judy Taylour, Suzanne Matthews, Sam Fletcher, Anne Rosthauser, Bob & Joanne, Hal Kelley, Larry Johnson, Nancy, Tim Donlin, Allison McKinstry, Nancy Group, Louis Cioccio, Ed Group, Pat Mickel, Kim Conti, Samuel Simpson, Janice Castro, Elizabeth Wisniewski, and DonWithGalaxy.

Judy Taylour started speaking about 7:02 PM about Tech Skills for an Easier and Safer Computing Experience. That was followed by a questions and answers session from about 8:17 PM to 8:45 PM.

Paul Francis started the CUE meeting at about 8:45 PM. New people were recognized. The latest minutes from the newsletter were accepted with no questions on it.

Treasurer Janice Castro gave a report on the CUE treasury with a current balance of \$3,469.71. A recent bill was for \$235.08 for work on the directory.

There was no discussion on the latest Genealogy Special Interest Group

meeting. Connie Edwards was not at the meeting to talk about it.

Lou Cioccio spoke on the Macintosh Special Interest Group. Their meeting covered batteries on laptops and that laptops should not be plugged in all the time (for battery life).

Lou Cioccio brought up the Photo Special Interest Group. Their group had a demo on Affinity Photo which is similar to, and less expensive than, Adobe Photoshop. It has been on sale recently for half price, at \$25 instead of \$50.

John Fair talked about the Smartphone & Tablet Special Interest Group. In the latest meeting, they talked about password managers, video streaming, speed tests showing 5G with similar results to 4G, streaming entirely on a TV Spectrum App for local channels, Air Pods that John recommends, and the Radio Garden streaming radio.

Paul talked about the CUE Election for this year. He has a slate of nominated names for positions at CUE. A Google poll will be sent in the near future so that CUE members can vote this year.

The meeting closed at about 9:00 PM.

Respectfully Submitted,
Don Grim, Secretary

A Note from the Editor

As usual, feel free to contribute information for the CUE newsletter. Whether it is small, large, an article, a tip, information, or pictures, you can send it to me and I will plan to include it in the newsletter. You can reach me at grimcyber@yahoo.com.

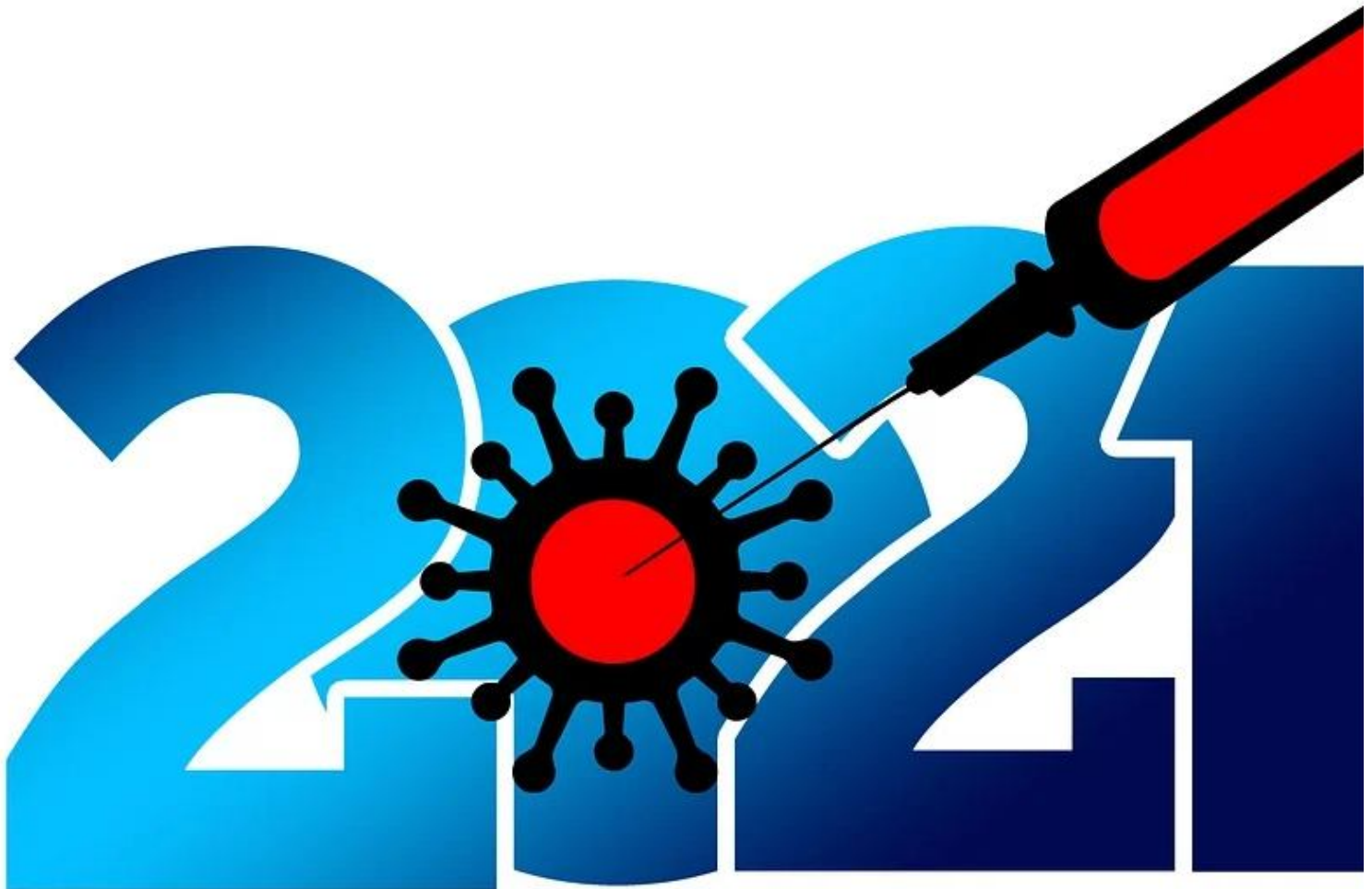
Remember that you can find recent news at the CUE website (cuerie.com). At times, the website will have more recent news than the CUE newsletter since the website

is updated continuously and the newsletter is updated monthly.

Remember to look for an email message in the near future so that you can vote for the CUE positions for this year.

Stay Safe!

Editorially Speaking, Don Grim



PLEASE PRINT

**COMPUTER USERS OF ERIE
MEMBERSHIP APPLICATION**

Today's Date _____

Last Name	First Name
Address	
City, State	Zip
Home Phone	Cell Phone
Your Email	

The yearly dues are payable in August of each year. The dues are \$24 annual.

For NEW members only, when you join outside the annual cycle your initial dues are based upon the month you join. Follow the schedule below.

August \$24	September \$22	October \$20	November \$18
December \$16	January \$14	February \$12	March \$10
April \$8	May \$6	June \$4	July \$2

Information provided on this form will be placed into a CUE Membership Directory

What is your Computer or Device: (Circle)

Windows Mac Android iPhone iPad
Tablet Linux Other

What is your level of expertise? (Circle)

Novice I know some I want to learn more
Expert Geek

Send your completed application
to:

Computer Users of Erie

PO BOX 8941

Erie, Pa 16505-0941

What do you wish to gain by joining Computer Users of Erie?

Student membership is just \$15 per year (provide proof of student status)

CUE Officer Information

Officers

President	Paul Francis	pdfflyer@roadrunner.com	814-882-1175
Vice President	John Fair	johncfair@gmail.com	814-474-3055
Secretary	Don Grim	grimcyber@yahoo.com	814-461-8289
Treasurer	Janice Castro	jcastrocue@outlook.com	312-543-9128

At-Large Board

Hal Kelley	hal_kelley@outlook.com	814-836-1803
Suzanne Matthews	pdxmatthews@aol.com	814-790-4185
Susan Mueller	suepasta@roadrunner.com	814-622-1262
David Runser	ml350djr@gmail.com	814-873-1740
Conrad Sobczak	hatsob@verizon.net	814-899-9699

Alternate At-Large Board

Lou Cioccio	lcioccio@mac.com	814-868-1320
Marcia Keller	dekmak43@gmail.com	814-449-4682

Special Interest Groups

Beginner's (BUG)	Lou Cioccio	lcioccio@mac.com	814-868-1320
Digital Photo	Lou Cioccio	lcioccio@mac.com	814-868-1320
Genealogy	Susan Mueller	suepasta@roadrunner.com	814-622-1262
MAC	Lou Cioccio	lcioccio@mac.com	814-868-1320
Smartphone & Tablet	John Fair	johncfair@gmail.com	814-474-3055
Windows	Lou Cioccio	lcioccio@mac.com	814-868-1320

Other Resources:

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Librarian	Tanya Mattson	449t1m@gmail.com	814-833-1404
Membership Chair	John Fair	johncfair@gmail.com	814-474-3055
Webmaster	Tom Kuklinski	tkuklinski@gmail.com	814-746-9165

CUE Disclaimer

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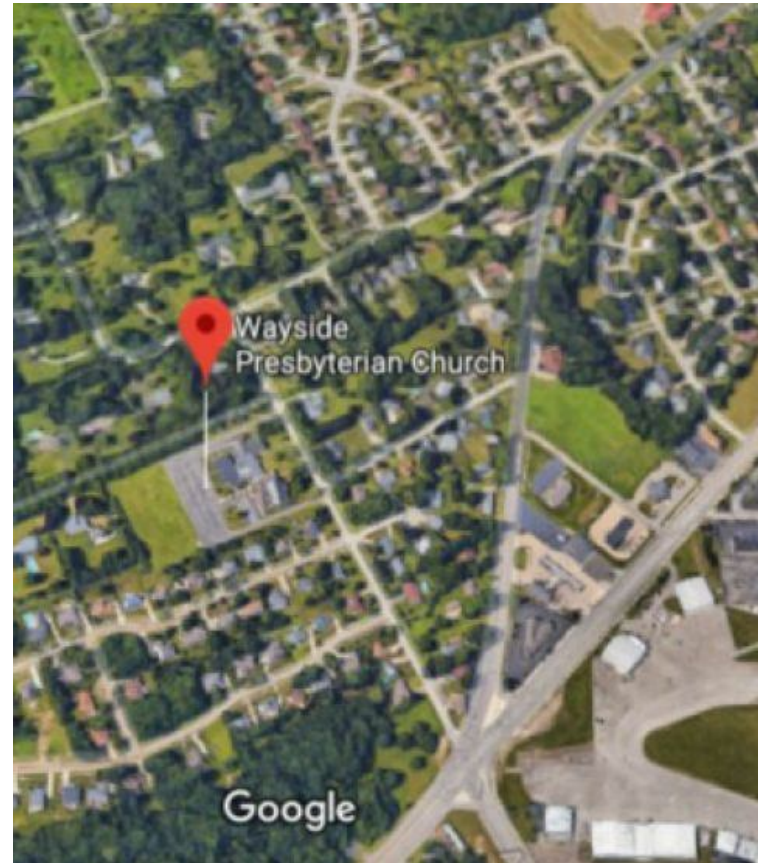
Directions to Wayside Presbyterian Church for CUE Meetings

Wayside Presbyterian Church, at 1208 Asbury Road, is approximately three blocks north of the intersection of Asbury Road and Route 5. This intersection is at the northwest corner of the Erie International Airport property. Following Asbury, turn left at the first marked driveway for the church. During the afternoon winter schedule (10:00 AM for the months of November, January, February and March), entry is through the two sets of blue double doors. Use the buzzer to gain entry if the doors are locked. During the normal evening schedule (7:00 PM the remaining months) use the double doors on the south side of the Christian Education wing. Signs are posted in the building to direct you to the meeting room.

From West of Erie International Airport: Follow Route 5 to the intersection of Asbury and Route 5. Turn hard left onto Asbury Road. Look for the church on the left approximately 3 blocks north of the intersection.

From South of Erie: Take Interstate 79 north to the 26th Street (Route 20) Exit. Bear left onto 26th Street (Route 20) west. Follow Route 20 about 3.4 miles west to Asbury Road. Turn right (at the Sheetz Gas Station) onto Asbury and follow it straight across Route 5. Look for the church on the left approximately 3 blocks north of the intersection.

From East of Erie International Airport: Follow 26th Street (Route 20) west to Asbury Road. Turn right onto Asbury and follow it straight across Route 5. Look for the church on the left approximately 3 blocks north of the intersection. OR, follow 12th Street (Route 5) west past the airport to Asbury Road. Turn right onto Asbury Road. Look for the church on the left approximately 3 blocks north of the intersection.



About the Newsletter

The CUE Newsletter is published monthly by the Computer Users of Erie (CUE), an independent nonprofit computer user group, dedicated to the education and support of our members. The opinions expressed herein are those of the individual authors or the editor, and do not necessarily reflect the opinions of CUE. This publication is Copyright © 2018 by the Computer Users of Erie. All rights reserved. Permission to reprint is hereby granted to any Nonprofit Organization, as long as proper credit is given, or not restricted by the original author or source. **Advertising:** Advertising is welcome from both our members and commercial sources. For current advertising rates, please send an email to the Editor requesting a copy of the Ad Rates file. **Address Changes:** Any recipient of the newsletter is urged to submit a change of address notification to the Editor, either via US Mail to the address shown below, or (preferably) via email, so we may keep our records accurate. **Newsletter Exchange:** CUE welcomes newsletters from other user groups. If you would like to exchange newsletters, either by US Mail or via electronic (Internet) delivery, please send your newsletter to the address listed below. We will add your name to our mailing list and send you our newsletter in return. **Submissions:** Submissions are always welcome from our members or outside sources. Submissions may be articles, images, cartoons, etc. For first time authors, please request a copy of our Submissions Guidelines from the Editor, prior to submitting any items. This will help to eliminate publication delays. Submissions are due by the 5th of each month. **Correspondence:** General correspondence to CUE may be sent via US Mail to: Computer Users of Erie, PO Box 8941, Erie, PA 16505-0941 USA. Email to: cuerie@gmail.com. Editor Email to: grimcyber@yahoo.com.

CUE Membership Benefits



As the largest computer users group in northwest Pennsylvania, CUE has served Erie and surrounding communities since 1982. CUE provides a forum for people to learn about computers and have fun doing so. The group meets the third Thursday each month, with the exception of the months of July and December. In July the group gathers for a picnic and December is the annual holiday party (dates vary). CUE meetings are at Wayside Presbyterian Church, 1205 Asbury Road, Erie. Meetings from April through October are at 7:00 p.m. From November through March, the meetings are at 10:00 AM in the morning, except it will stay at 7:00 p.m. during the Caronavirus Pandemic.

Our monthly meetings are open to the public regardless of age or ability. Many of our members are senior citizens who span a wide range of capabilities and interests but share a desire to know more about how to use computer related technology. Our role is to provide a forum for continuous learning from each other. CUE has a closed Google gmail group that is used to communicate with members and to post questions/problems to seek answers from the membership. Members pay an annual membership fee of \$24 to receive a membership directory, monthly newsletter, availability to monthly general meetings, and any of the Special Interest Group (SIGs) meetings, usually held in a member's home. Locations and times vary, so check the online EVENTS Calendar on the website for the latest information. SIG topics include:

- Digital photography [and photo safari]
- Genealogy
- Macintosh computers
- Computer troubleshooting
- Beginners users group (BUG)
- Handheld smartphones and tablets

CUE is a member of the Association of Personal Computer User Groups (APCUG). APCUG is an International, platform-independent, volunteer-run, non-profit organization devoted to helping member User Groups offer enhanced services to their members. Some of the membership benefits include:

- Speakers bureau
- Free virtual technology conferences
- Regional conference
- Push newsletter articles
- Discounts and special offers from vendors
- User group newsletters online

Find us online at <http://www.cuerie.com/>. And Facebook @cuerie

Computer Users of Erie
PO Box 8941
Erie, PA 16505-0941

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