

---

# The Memory Map

Canton Alliance Massillon Computer Users Group



Volume 44, Issue 7

July 2024

## Next CAMUG Meeting, July 15, 2024 Both Zoom and In Person!

- Join us in person at Holy Cross Lutheran Church, 7707 Market Ave. in North Canton, Ohio.
- OR use the Zoom link that Dennis will email.

### Program

**6:15 PM:** Chit Chat

**6:30 PM:** "What the F-Keys Do" by Carol Joliat

**7:05 PM:** "Introduction to Legacy Family Tree" by Dennis Smith

## Clean Your Dirty Laptop

**David Kretchmar, Hardware Technician**

**Sun City Summerlin Computer Club**

<https://www.scsccl.com>

**tomburt89134 (at) cox.net**

After being used regularly for months or years, our laptops accumulate dust, grime, skin oils, sneezes, and who knows what else. Your laptop is most likely due for a cleaning, and I'm going to pass along some suggestions for how to do it effectively without harming this delicate piece of equipment.

You know your laptop is filthy. You can see the dirt and grime on your screen and keyboard. You might also be able to see grime accumulated on your trackpad. So, it's time for a cleaning.

A shining, newly cleaned laptop should be a joy to use; the keys are clean, and the screen is free of smudges and splatters. These cleaning suggestions might also be helpful if you buy a used laptop since the previous owner doesn't always leave it in pristine condition.

---

---

## **Your Supplies**

You don't need much to clean a computer: rubbing alcohol, a mild dish detergent, soft lint-free cloths (microfiber cloths are ideal), Q-tips, and canned air. Ninety percent or higher isopropyl alcohol is what you want since it won't damage the internal components. And if you have some particularly embedded dirt, a Mr. Clean Magic Eraser (or other melamine sponge) can also work wonders. However, it should be an absolute last resort since it's abrasive and can leave permanent scratches.

Don't waste your money on specialty cleaners you see at Amazon or big box electronics stores like Best Buy. They work just fine but no better than what you already have at home.

## **Start With the Inside**

Starting with that dirt on the keyboard and screen might be tempting, but you should start with the internals. Canned air will blow dust and dirt everywhere, so if you start cleaning the screen, you'll have to clean it again after you've used canned air. Start by blowing out the dust, then move on to the outside.

**You shouldn't have to open your laptop to clean the inside.** Turn off the laptop, unplug the power cable, and remove the battery if it pops out (removable batteries are becoming a thing of the past). Give it a quick burst away from the laptop to eliminate condensation, and then start blowing air into any cracks and crevices: the keyboard, the vents, and even the USB and other ports. Blow in short bursts since longer sprays can cause moisture to accumulate inside your computer. You can also damage the fans by making them spin too fast.

You probably won't see a significant change after doing this. The goal is to prevent dust buildup over time, which can cause your laptop to overheat and possibly spontaneously shut down. If you can see dust bunnies in the vents, you've let it go too long without a cleaning. If you see dust stuck behind the vent that you can't dislodge by blasting it with compressed air, consult your user manual to open the case. Be sure you remember which screws went where for the reassembly. Snap a picture or two of your laptop for reference before opening the case, and be super-organized with the screws as you remove them.

Smokers and pet owners should take special care to clean the inside often since you'll likely experience a much quicker buildup of dust, smoke, hair, and other dirt. Computers exposed to smokers can have their useful life cut by as much as half.

## **Wipe Down the Outside**

Remember, when cleaning a laptop (or desktop) computer, apply the cleaning product to the tool you're using to clean, NEVER directly onto the computer. So, grab your microfiber cloth, pour a little alcohol onto it, wring it out so it isn't dripping wet, and

---

wipe down the surface. Cotton swabs and alcohol are helpful for the keyboard keys and the small spaces between them. (If there are marks that won't come off, you can try rubbing them with a Mr. Clean Magic Eraser or other cleaner very lightly, but again, they're mildly abrasive, which can alter the surface's finish.)

It may take a few passes to get all that grime off, but you should notice a dramatic difference once you do. If your laptop is particularly old, you may not be able to get rid of the shine on the keys; some of us may have worn down the top layer of plastic and even the letters on the keys. There's not much you can do about that.

You should be able to wipe fingerprints off your screen with a dry microfiber or soft terry cloth. If you need more cleaning power, a slightly damp cloth that has been thoroughly wrung out first can help. Some manufacturers, including Dell and Lenovo, even say you can use a 50:50 mixture of isopropyl alcohol and water to remove tough dirt. Avoid household cleaners with harsher chemicals like ammonia or Windex on the screen.

### **Get Rid of Bad Smells**

Let's say you have a particularly terrible case of a gross laptop, and even after the above steps, your laptop still carries the essence of whatever it has been exposed to. I've seen many laptops that smelled like smoke, and getting rid of that is challenging or impossible. Cleaning the surface can help, but many of those smells may also be inside the computer. For that, you can turn to a natural deodorizer: charcoal. Don't go digging through your grill for briquettes! Cooking charcoal is different from activated charcoal. Activated charcoal is made with much more (micro) surface area to be more absorbent.

Another common household item is kitty litter. It's a great odor eliminator because most kitty litter formulas have activated charcoal to neutralize litter box smells.

Seal the laptop in a bag or closable bin with a cup or so of the activated charcoal or litter and leave it for at least 24 to 48 hours. If you don't have a cat, people also had good luck with diaper pail deodorizers, which are neat little packets of charcoal you can throw away when you're done. The longer you leave the computer in the bin, the better.

## **CAMUG June 2024 Meeting Minutes**

The meeting was held in person at Holy Cross Lutheran Church; it was also held on Zoom using a Zoom account provided by APCUG. President Dennis Smith was host and presided over the 489<sup>th</sup> meeting of CAMUG on June 17, 2024, starting at 6:15 PM with general chit-chat.

---

### Computer 101:

At 6:30 PM Carol Joliat presented “A Few Tips for Google Photos.” Carol based her presentation on material from GeeksOnTour.com.

There are three versions of Google Photos.

- The web version. This has the fewest features.
- The version for Android phones which has the most features.
- The version for IOS: iPhone, iPad.
- Google has a 15 GB limit for data storage online, except for photos uploaded from the Google Pixel phone. If the account is over the limit, no mail can be sent or received. If an account is inactive for two years, photos may disappear.
- Google One costs \$1.99 per month (\$20.00 per year), allows 5 people to share 100 GB storage, and provides extra photo editing features.
- Features for all versions include albums, facial recognition, collages, and standard photo modifications.
- Carol then showed albums, facial recognition, and collages on the computer.

### Main Meeting:



After a short break, the main meeting started about 7:14 PM. There were 12 members present representing 11 family memberships. This included two on Zoom. Since this is more than 15% of the membership, the meeting was declared valid. There were no visitors.

Linda Middleton won the On-Time Drawing, was wearing her badge, and was awarded the prize.

Dennis mentioned that there is a renewal credit of \$5 for each new member brought in.

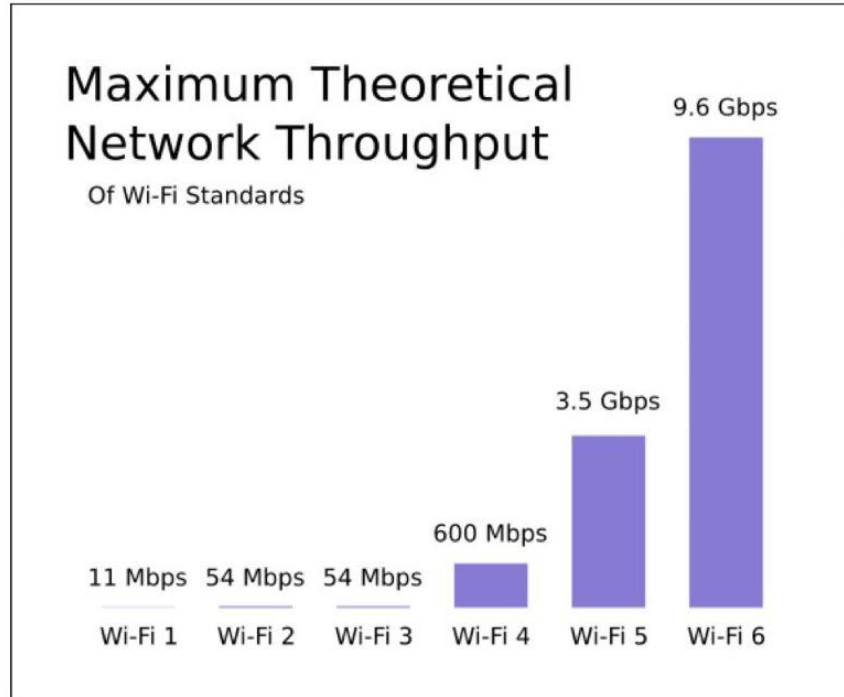
### Program:

Eric Gunn and Jan Bredon presented “Wi-Fi Basics” based on an article by Utkarsh Singh, “Demystifying Wi-Fi: A comprehensive Comparison of Wi-Fi 5, 6, and 7.”

- Limitations of Wi-Fi
  - Limited range
  - Interference
  - Bandwidth Sharing
  - Security Risks
  - Speed Limitations
- Newer versions are faster.
- Wi-Fi 6 uses directional antennas.
- Wi-Fi versions are backward compatible. This does not increase the speed of slower versions.
- Router admin should:
  - Change the admin password.
  - Turn off the ability to manage the router from the internet.

- 
- Change the network name and password.
  - Set up a guest network and password.
  - Differences between Wi-Fi 5 and 6
    - Wi-Fi 6 works better with more devices.
    - Wi-Fi 6 has more speed.
    - It uses directional transmission.
    - It uses the latest security protocol.
    - Wi-Fi 6e has 3 frequency bands vs. 2 for Wi-Fi 5 and Wi-Fi 6.
    - Dennis and Eric recommended that people choose Wi-Fi 6 if more than 15 devices are connected.
    - Target Wake Time (TWT) tells devices how long they can sleep. This saves more battery power and makes more efficient use of the router's bandwidth. It also reduces packet collisions (when two devices try to transmit at the same time, wasting both bandwidth and power).
    - "The biggest reason to get Wi-Fi 6 is speed. Under ideal conditions, a Wi-Fi 6 network has a theoretical max bandwidth of 9.6 Gbps. That's almost three times faster than Wi-Fi 5."

"Theoretical speeds don't translate into what people actually experience because we live in houses, not laboratories, and we connect to servers all over the internet. If we instead look at how upgrading from Wi-Fi 5 to Wi-Fi 6 can impact the speed of a single connected device by increasing the data rate by about 39%, which is a pretty decent boost."<sup>1</sup>



- Wi-Fi 5 is on it's way out. It is considered "old technology."  
It was the standard a decade ago. You might have trouble connecting newer devices in the future to the Wi-Fi 5 standard.

Source: <https://www.highspeedinternet.com/resources/what-is-wi-fi-6#:~:text=Wi%2DFi%206%20is%20a,TVs%2C%20thermostats%2C%20and%20lights.>

- Jan and Eric then reset an old router to factory settings and demonstrated setting it up.

**50-50 Drawing**

Since less than \$20 was collected, there was only one prize. Linda Middleton won it.

**Adjourn:**

After a short Q & A session, Tim Elder moved that the meeting be adjourned, and Gerald Schaffer seconded the motion, The meeting was adjourned at 8:50 PM.

Respectfully submitted,  
Liz Milford, Secretary

## **CAMUG Board Meeting 6/25/2024**

President Dennis Smith called the CAMUG Board meeting to order shortly after 7:00 PM on Monday, June 24, 2024, via Zoom. All seven members were present; therefore, the meeting was declared valid. Carol Joliat was also present.

|                          |         |                |  |
|--------------------------|---------|----------------|--|
| President                | Present | Dennis Smith   | <a href="mailto:president@camug.com">president@camug.com</a>   |
| Secretary                | Present | Liz Milford    | <a href="mailto:secretary@camug.com">secretary@camug.com</a>   |
| Treasurer                | Present | Tim Elder      | <a href="mailto:treasurer@camug.com">treasurer@camug.com</a>   |
| Senior Director          | Present | Alice Lungociu | <a href="mailto:directors@camug.com">directors@camug.com</a>   |
| Director                 | Present | Bruce Klipec   |  |
| Director                 | Present | Jan Bredon     |  |
| Director at Large        | Present | Eric Gunn      |  |
| Web Page                 | Present | Dennis Smith   | <a href="mailto:webmaster@camug.com">webmaster@camug.com</a>   |
| Software and Book Review | Present | Jan Bredon     |  |
| Membership               | Present | Carol Joliat   | <a href="mailto:membership@camug.com">membership@camug.com</a> |
| Newsletter               | Present | Liz Milford    | <a href="mailto:newsletter@camug.com">newsletter@camug.com</a> |
| Computer 101             | Present | Carol Joliat   |  |
| Ways and Means           | Present | Jan Bredon     |  |
| Others Present           |         |                |  |
|                          |         |                |  |
|                          |         |                |  |

**Approval of Minutes:**

**June Regular Meeting:** The June Regular meeting minutes had been emailed to the Board by Liz Milford. Tim Elder moved to accept the June 17, 2024, Regular

---

Meeting Minutes with a spelling correction. Bruce Klipec seconded the motion, and the minutes were approved.

**May Board Meeting:** The May Board meeting minutes were printed in the June 2024 newsletter. Tim Elder moved to accept the May 28, 2024, Board Meeting Minutes. Eric Gunn seconded the motion, and the minutes were approved.

**Reports:**

**Treasurer's Report:** The June Treasurer's report had been emailed to the Board by Tim Elder. Liz Milford moved to accept the June 2024 Treasurer's report. Alice Lungociu seconded the motion, and the report was approved.

**Membership Report:** Carol Joliat reported that we have 24 family memberships.

**June meeting topic:**

**July 15<sup>th</sup> meeting will be held in-person and on Zoom.**

**6:15 PM:** Chit Chat

**6:30 PM:** "What the F-Keys Do" by Carol Joliat

**7:05 PM:** "Introduction to Legacy Family Tree" by Dennis Smith

**Old Business:**

None

**New Business:**

**Post Office Box:** Our Post Office Box cost the club \$176 last year (\$182 next year) and gets very little use. The bill comes due at the end of the year, so the club has time to decide what to do. The board discussed several alternatives and Dennis will ask APCUG's John Kennedy about their address requirements. Now APCUG uses Dennis' address. One choice is switching to another area Post Office which could cost half as much. Another choice is to use what Membership Chair Carol does now for dues payments; she gives members a choice of using Zelle or mailing to Carol or Tim directly. A decision will be made later.

**Motion to Adjourn:**

At 8:47 PM Liz Milford moved to adjourn. Jan Bredon seconded the motion, and the meeting was adjourned.

Submitted pending Board approval,  
Liz Milford



---

## About CAMUG

Our club is open to anyone with an interest in computers and technology. A household membership is only \$20 per year, and a visitor can attend two meetings free without any obligation.

Normally, monthly meetings are held the third Monday of the month at Holy Cross Lutheran Church, 7707 Market Ave. in North Canton, Ohio, and also on Zoom. Computer 101 begins at 6:30 PM and the regular meeting begins at 7:05 PM. At every meeting, we cover topics ranging from cell phones to computers and from software to the internet and networking. Board meetings are held the fourth Monday of the month at 7:00 PM using Zoom. Members are encouraged to attend the Board meeting although only Board members can vote. Members can email Dennis Smith ([denniss@camug.com](mailto:denniss@camug.com)) to get the Zoom link to the Board meeting.

The club mailing address is CAMUG, PO Box 80192, Canton, OH 44708. The web site is at <http://www.camug.com>. CAMUG has a Facebook page called CAMUG Users Group at <https://www.facebook.com/CAMUG-Users-Group-100732168306718>. CAMUG also has a blog at <https://camugoh.blogspot.com>.

"The Memory Map" is a non-copyrighted newsletter. Permission is given to reprint the original articles as long as full credit is given to the author and source. The publication of information in this newsletter constitutes no guarantee of accuracy, and its use by readers is discretionary. Opinions expressed are those of the authors and not necessarily those of CAMUG.



CAMUG is a member of the Association of Personal Computer User Groups. APCUG is a worldwide organization that helps groups devoted to the world of technology by facilitating communications between member groups and industry. It offers the Saturday Safaris and Wednesday Workshops, provides newsletter articles, and has a list of speakers for club programs. Explore the APCUG website at <https://www.apcug2.org>, and the

APCUG Facebook page at <https://www.facebook.com/APCUG>.





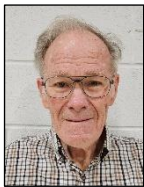


## Membership

By Carol Joliat  
March 2024

Renewals: Cecelia Kramer and Liz Milford

Total Family Memberships: 24



## CAMUG Monthly Summary

Tim W. Elder, Treasurer 6/17/2024

|                       | Cash    | Checking | Total    |
|-----------------------|---------|----------|----------|
| <b>Start Balances</b> | \$60.00 | \$524.57 | \$584.57 |
| Total Income          | \$12.00 | \$0.00   | \$12.00  |
| Total Expenses        | \$5.00  | \$25.00  | \$30.00  |
| Transfer              | -\$7.00 | \$7.00   | \$0.00   |
| <b>End Balances</b>   | \$60.00 | \$506.57 | \$566.57 |

## CAMUG Officers

President: Dennis Smith 330-477-5893

Secretary: Liz Milford 330-620-5178

Treasurer: Tim Elder 330-875-2323

Senior. Director: Alice Lungociu

Director: Bruce Klipec

Director: Jan Bredon: 234-564-0045

Director at Large: Eric Gunn: 330-495-4990

Membership: Carol Joliat

Asst. Membership: Alice Lungociu

Web Page:

Newsletter: Liz Milford 330-620-5178

Tim Elder 330-875-2323

Computer 101: Carol Joliat

Ways and Means: Jan Bredon

## List of Members

| Name               | E-Mail     |
|--------------------|------------|
| Albright, Jim      | jima       |
| Bredon, Jan        | janb       |
| Brugger, Bruce     | bruceb     |
| Curtis, Mitch      | mitchc     |
| Dorety, Janet      | janetd     |
| Doyle, Michael     | michaeld   |
| Elder, Tim         | time       |
| Girt, Jesse        | jesseg     |
| Gunn, Eric         | ericg      |
| Joliat, Carol      | carolj     |
| Klipec, Bruce      | brucek     |
| Kramer, Cecelia    | ceceliak   |
| Krantz, Cheryl     | cherylk    |
| Lungociu, Alice    | alichel    |
| McCoy, Myra        | myram      |
| Middleton, Linda   | lindam     |
| Milford, Elizabeth | elizabethm |
| Parker, Cherie     | cheriep    |
| Persons, Pauline   | paulinep   |
| Ponzani, Doris     | dorisp     |
| Schaefer, Gerald   | geralds    |
| Shockling, Dale    | dales      |
| Smith, Dennis      | denniss    |
| Watkins, Ross      | rossw      |

To email members, use the email  
name above followed by  
@camug.com

## Visit our Home Page:

<http://www.camug.com>

## Our Facebook Page:

CAMUG Users Group

## Our Blog:

<https://camugoh.blogspot.com>

**Need help  
with your electronic gadgets?**



Canton Alliance Massillon Users Group  
Computer Users Group

## **Assistance for users of all ages and skill levels**

When: 3<sup>rd</sup> Monday each month

Where: Holy Cross Lutheran Church

7707 Market Ave. N

North Canton, OH

*Currently, we are also meeting via Zoom*

Email us for a Zoom invitation!

Time     **6:15 PM:** Chit-Chat

**6:30 PM:** Computer 101

**7:00 PM:** Five-minute break

**7:05 PM Meeting**

Ongoing topics include:

Computers    Tablets    Digital Photography

Smart Phones    eBooks    Toys & Gadgets

[info@camug.com](mailto:info@camug.com)

[www.camug.com](http://www.camug.com)