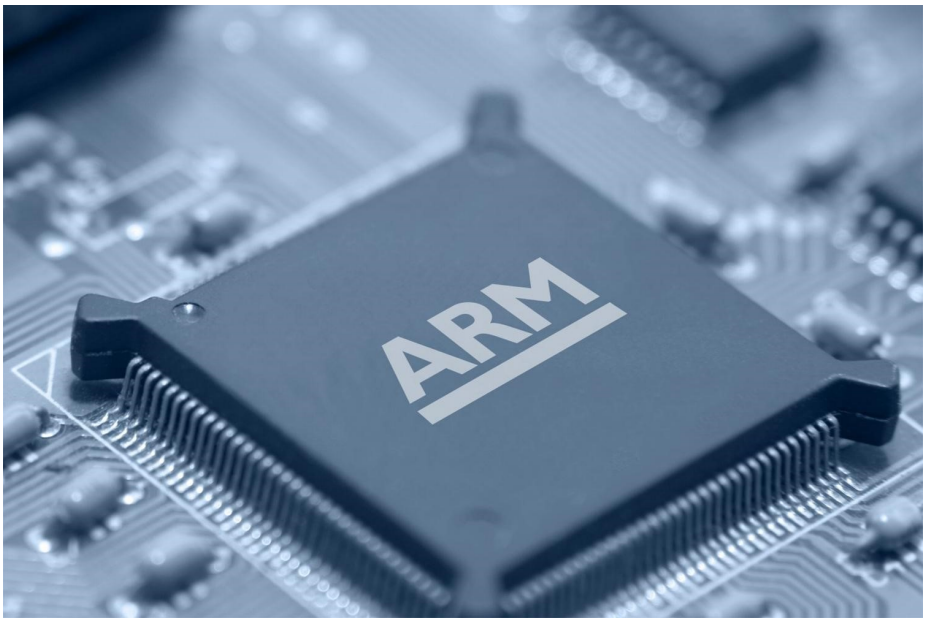
— The DataBus —

Monthly Newsletter of

The Dayton Microcompter Association

Volume XI (New Series) Nº 4 (April 2021)



Rick CARTWRIGHT

The New Mac ARM Chip

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SAVE A TREE (or at least a branch) ! If you prefer to print your DATABUS rather than read it directly from a monitor, don't print page 17 unless you need to renew your membership.

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Your 2020/21 Officers:

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Glady CAMPION
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Peter HESS
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Ken PHELPS
Ed SKUYA

Webmasters:

Mark CAMDEN
& Brent KERLIN

Webmaster Emeritus:
Dave LUNDY, †4/13/20

ESTABLISHED IN 1976, DMA is a group of Dayton-area professionals and enthusiasts in the field of computing and digital information technology. General Membership Meetings are usually held on the last Tuesday of each month. DMA has a number of Special Interest Groups (SIGs) in areas ranging from digital investing and genealogy to the Linux operating system. Each SIG meets according to its own schedule. DMA is a member of the Association of Personal Computer Users' Groups (APCUG) and the Affiliated Societies' Council (ASC). Click on any of the logos—including our own (top left)—to go to that organization's Web site.

apcug
An International Association of Technology & Computer User Groups

Submissions ...

THE DATABUS welcomes compliments, complaints, suggestions, and especially articles. We can accept articles in ASCII, or as attachments in plain text, Microsoft Word, Open or Libre Office Writer, or, yes, even WordStar (a word-processing program that goes back to about 1980!). Send articles to:

Editor@DMA1.org

All articles are subject to editing for spelling, grammar, usage, and space. Retain a copy of your work, as THE DATABUS cannot be responsible for loss. When articles are of roughly equal quality and importance, those by paid-up DMA members receive preference.

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THE DATABUS is written and published by volunteers. We do not give professional advice on hardware, software, or network installation, repair, security, or troubleshooting. If you need expert assistance for your digital device or network, please seek the advice or services of a qualified professional.

April Meeting: *7:00 P.M., Tuesday, the 27th*

No Driving—No Parking—No Charge*

* *See article below for details.* This is a "hybrid" meeting: via ZOOM, but also in person. Come at 6 P.M. if you wish to join us in person for dinner at T. J. Chump's Restaurant in Huber Heights. Click *here* for a map; see main article (last paragraph) for more information.

Rick CARTWRIGHT:

The New Mac ARM Chip

If you come in person, join us at 6:00 P.M.
The Main Meeting starts at 7 via ZOOM.

IN NOVEMBER 2020, Apple released the first Macs with an ARM-based M1 chip, including MacBook Pro, MacBook Air, and Mac mini models. Tonight's presentation will touch on Apple's ARM history, its impacts on Apple's strategic direction, and what that means for the future of Apple devices.

Rick will discuss performance gains that Apple is delivering with the new M1, their first generation of Apple Silicon in the Mac. We will cover the timetable for converting the Mac product line to Apple Silicon and review some of the things early adaptors are reporting. Lastly, we will discuss Intel and other competitors' response to Apple's big move.

Rick CARTWRIGHT began his career at a Fortune 200 international and publicly traded company as an electrical engineer, focusing much of his time on developing embedded systems, with a love for software design. Over time, he migrated into management in roles that included Manager, Director, and eventually a role as a Vice President/General Manger. After nearly forty years in the industry, he is currently retired.

Rick is an Apple fan-boy and geek. He has used Apple gear for well over twenty years. He is a member of TMG-Dayton (The Mac Group) and serves as the Program Director.

Rick and his wife Teresa have four sons, all happily married. They keep busy with ten grandchildren and one dog. They love to travel to national parks and spend time photographing nature. See their blog at https://www.tales.photos/ and their vlogs at tales.photos on YouTube.
Rick blogs at RickCartwright.com and can be found on Twitter @RickCartwright

Minutes are normally published almost two months late, because the Minutes for, say, the March Board meeting must be approved by the Trustees at the *following month's* meeting — in this case, early April. The corrected and approved March Minutes would thus appear in the April DATABUS (this issue), published toward the end of the month.

Trustees' meetings are on the *first Monday of each month,* except when that day is a legal holiday, for example, Labor Day in September. **In light of the ongoing epidemic, Trustees are holding their meetings using ZOOM.** They begin at the same time: 7:00 P.M. Request ZOOM credentials (that's a fancy way of saying "an invitation") from Vice-President PETER HESS or Secretary GLADY CAMPION at the January General Membership meeting.

DMA Board of Trustees
Meeting of Monday, March 1, 2021

CALL TO ORDER

The meeting was called to order at 7:15 P.M. by Peter Hess, via Zoom.

Trustees present: Martin Arbagi, Glady Campion, Edwin Davidson, Pat Flynn, Peter Hess, Ken Phelps, and Ed Skuya. **Absent:** Chester Howes. **Guests:** Mark Camden.

OFFICERS' REPORTS

President – Ken Phelps

No report

Vice President – Peter Hess

The presentation on Home Solar Power went very well. Jim Helton gave a clear explanation of what was involved and answered many good questions. The internet connection ran more smoothly than usual.

Peter attended two APCUG meetings. These free workshops are offered at noon every Wednesday.

Suggestions Peter received from APCUG:

- Use the DMA phone with hotspot service to join ZOOM meetings at the restaurant
- Post any needs for products and volunteers on the DMA website
- Some user groups are posting invites to their meetings on their websites

Peter requested a job description from each of the officers and committee chairs, that they might be used for posting a needs and wants list on our Web site.

Secretary – Glady Campion

Glady presented minutes for the previous board meeting. Martin Arbagi moved the minutes be accepted as corrected. Pat Flynn seconded and the motion passed with Glady abstaining.

Treasurer – Pat Flynn

Pat presented reports for January and February. (Next page)

(Continued on page 5)

(MARCH MINUTES—Continued from page 4)

Account Balances:	January	February
FifthThird Checking	$ 2,375.80	2,379.49
FifthThird Savings	2,681.70	3,681.50
WPCU Share	38.70	38.70
WPCU Checking	2,363.10	2,169.58
WPCU Money Mrkt	15,049.40	15,053.57
Paypal	257.63	257.63
TIAA CD	5,428.81	5,433.35
Dayton Foundation	98,985.73	98,985.73
Total	**127,180.65**	**127,999.55**

COMMITTEE REPORTS

Audit – Glady Campion

In progress

Fundraising – Peter Hess

In progress

Peter will continue asking for donations via social media.

Marketing – Edwin Davidson, Pat Flynn, Peter Hess, Debra McFall

Peter posted the meeting notice on Meetup and Facebook. Mark posted the notice on our Web site.

Membership – Glady Campion

At last month's General Membership meeting, we had 43 Regular, 4 Associate, 0 Student, and 5 Life members for a total of 52. Attendance for the meeting was 27, including 8 who attended in person at TJ Chumps. Edwin Davidson won the Phillips Bass+ Bluetooth headphones. Ed Skuya picked up the iHome Qi Wireless Slim Charge pad. Bob Smell scored the PNY "Attache 4" 128GB 2.0 Flash drive. From the Lundy collection, Kathleen Kannik won the Kingston USB 3.0 Media reader.

Net Administration Team – Ken Phelps, Gary Turner, Pat Flynn, Brent Kerlin, Mark Camden

We are currently having some e-mail problems. Google is bouncing messages. More research needed.

Brent Kerlin set up a shell account for one of our members.

Programs – Peter Hess

Many thanks to Jim Helton for bringing us up to date on Home Solar Power, explaining the process involved, the advantages, recent advancements, as well as how affordable it can be for homeowners.

- March – Peter is working to schedule a talk on Home and Portable Generators
- Soon – A talk on Blockchain and Bitcoin

Other suggested topics: Virtualization, Deep Fakes, Streaming video, Car hacking, Chromebooks, Bitcoin and Blockchain, InitiativeQ.com, Data.ohio.gov, the Apple M1 chip, converting laptop to Chrome

Publications – Martin Arbagi

The February DATABUS issue has been posted, including an article on AV comparatives.

UNFINISHED BUSINESS

Wright State Archives – Martin Arbagi, Glady Campion

Still in progress

Next Board Meeting

The next Board Meeting will be 7:00 P.M. on Monday, April 5, 2021 via Zoom.

(Continued on page 7)

Have a business card? Are you a DMA member?

ANY PAID–UP MEMBER of the Dayton Microcomputer Association is entitled to a *free* business card–sized advertisement in THE DATABUS. Send a good–quality image (600 dpi or better) to Editor@DMA1.org, or give your business card to **Martin Arbagi,** the Editor, at any DMA meeting. We can embed a link to your Web site (if you have one) within the image of your card. Under weird IRS regulations, your Web site may not include discount coupons for DMA members, although discount offers may be included in the advertisement *itself.* See the example just below, which includes a member discount. But the advertiser (Steve Davis) could not have posted that discount on his Web site. It appears *exclusively* in THE DATABUS.

10% Discount to DMA members!

☺ ☺

Help DMA by using Amazon's SMILE program!

AMAZON, the Internet's largest retailer (if you haven't noticed, Amazon isn't just for books any more!) has a "Smile" feature whereby Amazon donates a percentage of almost any purchase you make to a selected nonprofit organization. There is *no* extra cost to you. Click *here* to learn more or *here* to go directly to the sign-up page. Be sure to put DMA down as the beneficiary of your purchases.

(MARCH MINUTES—Continued from page 5)

NEW BUSINESS

The Dave Lundy Collection – Mark Camden

Mark volunteered 200+ hours to help Pat Lundy by sorting through the hardware and software collection left by Dave Lundy. Mark backed up more than 3TB of data for Dave's family. He copied DMA related documents and photos onto a flash drive to be archived by DMA. Mark also prepared a computer for Pat's personal use. Pat is donating some of Dave's hardware to DMA for door prizes and older hardware will be recycled through Goodwill. Many thanks to Mark Camden for the great care he has taken in curating this project! We are so very grateful to Pat Lundy for her generous donations!

VOLUNTEER OF THE MONTH/QUARTER/YEAR

Mark CAMDEN was nominated as Volunteer of the Month for the time, effort, and care taken in helping Pat Lundy sort through the hardware and software left by Dave Lundy. Great job, Mark!

ADJOURNMENT

Edwin Davidson moved to adjourn at 9:31 P.M. Ed Skuya seconded and the motion passed.

Respectfully Submitted,

Glady Campion,

Secretary

Wayne Fourman
May Financial Group, Inc.
Financial Planning Services
425 Memorial Drive
P.O. Box 320
Greenville, OH 45331
Phone (937) 548-5035
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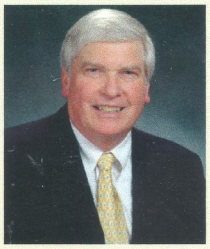

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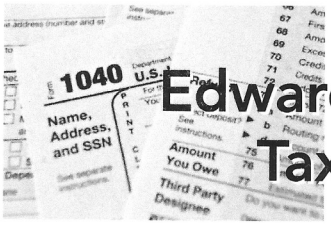

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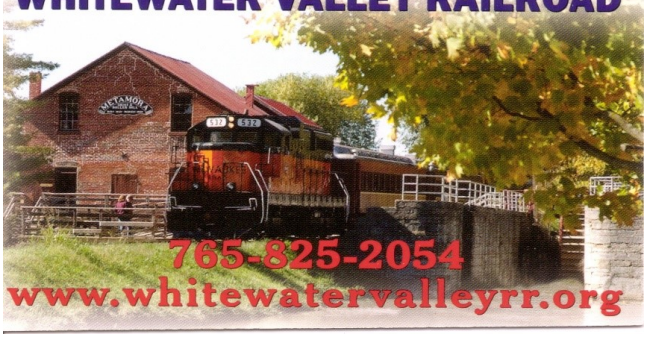
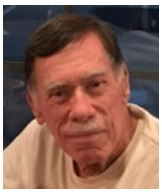


Knowledge Is Your Best Defense: Windows Defender and Firewall



By David KRETCHMAR, Computer Technician
Sun City Summerlin Computer Club
https://www.scscc.club
dkretch (at) gmail.com

There is a lot of confusion regarding Windows computer security. Some reviews of anti-virus software will state that **Windows Defender** is very poor, while others will say that it is very good. I would personally call it entirely adequate while lacking some features.

Microsoft Windows Defender originally was considered pretty weak. However, over the past five years, beginning with Windows 8 and continued in Windows 10, Microsoft has upped its game. Windows Defender, through several upgrades to Windows 10 and weekly updates, has become a real challenge to malware developers.

Windows Defender was originally known as Microsoft Security Essentials back in the days of Windows 7, when it was offered as a separate download. Now it's built into Windows 10 and is enabled by default.

I've been using only Windows Defender and Windows Firewall from the day I moved to Windows 10 in 2015, and I have not found a virus infestation in any of my four computers.

Different Protections

There are different types of malware protection available which many people wrongly think are the same and label it under antivirus. Within antivirus software there are multiple parts; the two major ones are "Scan time Detection" and "Run time Detection."

Scan Time Detection

Scan time detection detects malware based on analyzing an application's software executable and is only as good as its latest virus definition updates. Scan time protection depends on recognizing known malware signatures and types and uses that information to determine an executable's validity (or bogusness).

Virus definitions need to be periodically updated so its definitions include the latest discovered malware.

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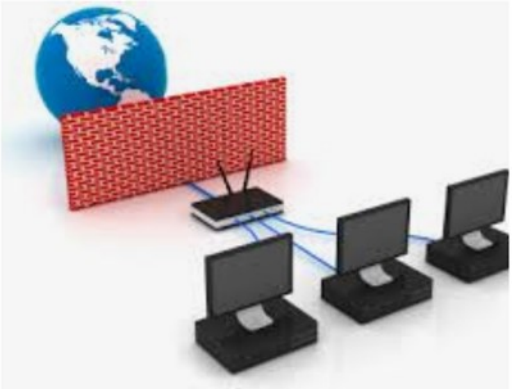
(WINDOWS DEFENDER—Continued from page 9)

Run Time Detection

Run time detection detects malware based on the way it runs, system functions it calls and system files it accesses. The run time A/V software then analyses this information to determine whether the application is malicious or has similarities to known malicious software. This is also known as heuristic analysis. Heuristic analysis is incorporated into more advanced security software to detect new threats before they cause harm, without the need for a specific signature. New viruses are called "zero-day". The best protection against these is a real-time scanner which analyzes how software behaves on your personal computer. Recently this is one area where Windows defender has excelled.

The Firewall



These days the firewall is a major part of the security system, preventing unauthorized connections to your system by malicious software. The **Windows Firewall** does the exact same job of blocking incoming connections as any third-party firewall. Third-party firewalls like the one included with Norton may generate pop ups more often, informing you that they're working and maybe asking for your input. The Windows firewall just quietly does its thankless job in the background.

Windows firewall is enabled by default and should still be working unless you've disabled it manually or installed a third-party firewall. You can find its interface under Settings, Updates and Security, Firewall & network protection.

You are the best defense

Some experts feel that if you know how to use a personal computer, what to browse on the web, where to click, where not to click, which software to install and which link to click then you don't need an anti-virus software. But you need to always be aware. Think before you click on anything, and never download third party software onto your system unless you understand exactly what it will do (generally, you don't).

Free Alternatives to Windows Defender

If you don't feel Windows Defender is adequate, and you don't want to pay for protection, I suggest you look at the Avast or AVG free antivirus editions. Both can do a good job of protecting your computer. These third-party products offer some features that Windows Defender lacks, such as on-line monitoring for potential exploits. They are available from:

Avast: https://www.avast.com/en-us/index#pc

AVG: https://www.avg.com/en-us/free-antivirus-download

I have used both and they are very good.

[EDITOR'S NOTE: Mr. Kretchmar may not be aware that the Avast Corporation bought out AVG in 2016 for $1.8 billion (Yes that's billions, not millions!). Although Avast and AVG's user interfaces may differ, the antivirus program "under the hood" is identical.] ... TDB

Welcome to APCUG's May 1, 2021 Virtual Technology Conference (VTC)

Click here to register: https://forms.gle/4Mn1tz5pR8efWFYN6
Registration closes at 11:30 P.M. on Friday, April 30, Pacific Time

For more information and biographies of the presenters:

https://apcug2.org/apcug-2021-spring-vtc/

- You *do not* need a ZOOM account to attend the VTC. However, please update to the latest version of ZOOM before attending the conference. www.zoom.us/download
- Unlike the Wednesday Workshops, you *will not* have access to the microphone. Please ask your questions in the Chatbox; the moderators (Bill James, Track 1 and John Kennedy, Track 2) will ask the questions. If there isn't time for all of the questions to be answered, Judy will send them to the speaker and forward the answers to those who put their **first and last names** (only) into the Chatbox for each presentation they attend.
- If there are any handouts for a presentation, those who have added their names to the Chatbox will receive them as well as the YouTube link to the presentation.

Track 1 — Presentation #1
9 A.M. Pacific Time … 12 P.M. Eastern Time

LEARN ALL ABOUT A VPN (VIRTUAL PRIVATE NETWORK)

—*Don Arrowsmith,* President, Philadelphia Area Computer Society

What it is; Why you would want one; How you can get one; and How to use one. You can run your own for free if you have the right router, network file server, or even a Raspberry Pi. There will be detailed information about setting up a VPN on a router with that feature available.

Track 2 — Presentation #1
9 A.M. Pacific Time … 12 P.M. Eastern Time

THE "AUDIO" IN AUDACITY!

—*Sharan Kalwani,* President, SouthEastern Michigan Computer Organization

Audacity is a versatile program that can be used to record audio, edit sound files, and convert them to various formats. Audacity is Open Source; it is free. It is readily available to the public for download. This tutorial is designed to introduce new users to the basic features of the program.

AVIDEMUX: OPEN-SOURCE SOFTWARE FOR NON-LINEAR VIDEO EDITING

Avidemux is a very simple basic video editing tool. Of course, it is free and fun to use. This tutorial on Avidemux will introduce beginners to use this to cut, join, split, rotate videos as well as add filters.

(Continued on page 12)

(APCUG Conference—Continued from page 11)

(Track 2, Presentation #1 continued) Both of these programs are free cross-platform applications: Linux, BSD, Mac OS X, and Microsoft Windows.

Track 1 — Presentation #2
10 a.m. PT … 1 p.m. ET

Using the Control Center on Your iPad

—*Brooke Thomas,* President, Central Kentucky Computer Society

Brooke will demonstrate where the iPad Control Center is, how to customize it, and an overview of the different controls available within the Control Center.

Track 2 — Presentation #2
10 a.m. PT … 1 p.m. ET

Your Online Privacy

—*Joe Kissell,* Author and Publisher, Take Control Books

Nowadays, it can be difficult to complete ordinary activities without placing our personal data on line, but having our data on line puts us at risk for theft, embarrassment, and all manner of trouble. Joe gives practical advice that we need to handle common on-line privacy problems and to develop a sensible on-line privacy strategy customized for our needs.

Track 1 — Presentation #3
11 a.m. PT … 2 p.m. ET

Music in the Car

—*Ray Baxter,* President, Payson Meetup Club

Remember when it was so "cool" to have a push-button AM radio in the car? This presentation will review how to utilize your existing Compact Disc collection, now that many new vehicles no longer have CD players, by streaming from an on-line service, using Bluetooth, flash drives, smartphones, etc.

Track 2 — Presentation #3
11 a.m. PT … 2 p.m. ET

Word Tips and Tricks

—*Jerry Heaton,* Member, Central Kentucky Computer Society

During this presentation, you will be amazed at the available tools in the current version of Word. These handy tools will enhance your word processing experience. Speech recognition and editing assistance will also be covered. **… TDB**

—The Day the Music App Died—

By John KROUT, Writer/Presenter, Potomac Area Technology and Computer Society
www.patacs.org
krout75 (at) yahoo.com

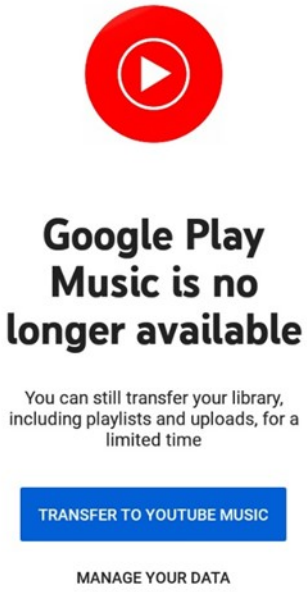
Google's "Play Music" application program is gone on some Android devices, and soon will be *completely* gone

Introduction

I am a music collector. I have a large collection of audio CDs; roughly 1,600 songs are on the micro-SD card in my Samsung Galaxy S10 phone. I bought that phone in late 2019, and my carrier recently upgraded the phone's Android OS to version 11.

I started my Android experience on a Galaxy S5 phone, which I still own. That phone runs Android 6. I also own two Galaxy tablets, a recently purchased S5e running Android 10, and a much older A model running Android 8.1.0.

On February 1, 2021, I started the Play Music app on my Galaxy Tab S5e. The app displayed a screen stating that Play Music is "no longer available". The same announcement recommended installing the YouTube Music app. (See illustration, right.)



Why I Won't Use the YouTube Music App

YouTube is owned by Google. The intent of the YouTube music app is to play music stored "in the cloud."

There are three reasons why that cloud storage approach is not ideal for me.

First, that network-intensive method is a classic way for a dedicated fan of music to run into the ceiling on cell network data usage very quickly each month, with financial penalties for exceeding the ceiling, if your carrier contract has such a limit.

Second, despite claims that music stored in the cloud is available wherever you go, there are vast stretches of the US where data service is minimal or is completely absent. Drive through any mountainous area and that becomes obvious very quickly. With 5G, which has a much shorter range than 4G, that problem will be even more acute. The mountains will be the last place carriers build the extra towers necessary to make 5G work on every mile of interstates. Don't count on that to happen on other mountain highways in the next ten years.

Third, there is a privacy issue. Music stored and accessed in the cloud is an invitation for the cloud storage provider to learn about one's music preferences and monetize that knowledge, such as through endless ads.

What Google Decided To Do

I went to my desktop computer and googled the status of the Play Music app. I learned that, in 2020, Google announced that the company would no longer support the app as of December 3, 2020.

(Continued on page 14)

(MUSIC APP—Continued from page 13)

That end of support, by itself, will not cause the app to stop working. I use the Play Music app daily on my S10 phone. So far, the app still works just fine.

The fact that Google *disabled* the Play Music app on my Tab S5e tablet was quite an unhappy surprise. Even with the music indexing quirks in Play Music, which I wrote about a couple of years back, the Play Music app was reliable and reasonably easy to use.

I surveyed the fate of the Play Music app on my other Android devices. On the S10 phone, running Android 11, the app can still play my music collection stored on the phone. On the S5 phone, running Android 6, the app can still play my music collection stored on the phone. On my Galaxy Tab A, the app acted like the app on the Tab S5e, displaying the no longer available screen.

I expect that the end is near for the Play Music app on my current S10 phone and my old S5 phone.

There Are Many Other Music Player Apps

Of course, I went to the Google Play Store and looked for music player apps. That category is a huge, bewildering forest. The Play Store app recommended some alternative searches, including "music player no ads", so I tried that. Ads are another unwelcome use of cellular network data.

For each app, I looked at the review rating average, the number of reviews, and the total number of downloads. I also made sure that each was capable of playing music stored on the phone, not in the cloud.

Musicolet has been downloaded 5 million times and has a 4.7 rating average in almost 120,000 reviews. That is a very strong rating average. So I downloaded that app on my Tab 5e.

When I started the Musicolet app and worked through its setup steps, I learned that it has one feature I liked immediately. The app provides the option to specify one or more particular folders on the phone or tablet in which to find sound files. I chose the folder on my micro-SD card where I parked my 1,600+ songs (1,637, according to Musicolet). The advantage is that, unlike Play Music, the app will ignore my voice memos that are stored in a different folder. Play Music app automatically threw in all my voice memos, which are far less entertaining than my music.

Musicolet also offers a feature to play songs in random order, sometimes called Shuffle Play, just like the Play Music app. I use that constantly so that my music sounds like an FM progressive music station in the 1970s. I have other music on my phone as well, from the 1950s through the 2000s.

Another ad-free music player app with just about the same attractive stats is **Pulsar Music Player.** This one claims to support use on car sound systems via Android Auto.

Most sound systems in recent cars already provide Bluetooth capability. If you only want to access phone or tablet music, and you do not have the Android Auto feature in your car, you can play music from your phone on the car stereo via Bluetooth. Android Auto offers other advantages.

The Bottom Line

I hope other app publishers do not follow this disappointing Google precedent. When support is ceases, let the user base continue to enjoy the capabilities of the app, at least until an Android OS update breaks the app.

(Continued on page 15)

(MUSIC APP—Continued from page 14)

ABOUT THE AUTHOR: *John Krout* has been writing about creative uses of personal computers since the early 1980s. He worked for decades as a C and C++ developer for contractors of several federal government agencies. After more than a decade as a documentation writer for one such agency, he quit in April 2020 and now writes whatever he wants to. He resides in Arlington VA with his son, many computers and cameras, and too many cats. **... TDB**

DMA Events for Apr 18 – May 22, 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Apr 18 *World Amateur Radio Day*	Apr 19 **Apple Dayton SIG** CANCELLED	Apr 20	Apr 21	Apr 22 *Earth Day*	Apr 23 **Python Self-Study** Noon, Online	Apr 24
Apr 25	Apr 26	Apr 27 **MAIN MEETING** 7:00pm Online -AND- TJ Chumps 7050 Executive Blvd Huber Heights	Apr 28	Apr 29	Apr 30 **Python Self-Study** Noon, Online	May 1 **Classic Computers** 3:00pm By phone
May 2	May 3 **DMA Trustees** 7:00pm Online	May 4 *Star Wars Day*	May 5 *Cinco de Mayo*	May 6 **Genealogy SIG** CANCELLED	May 7 **STIR TREK** **Python Self-Study** Noon, Online	May 8
May 9	May 10	May 11 **Investment SIG** 7:00pm Online	May 12 **Dayton Dynamic Languages** 7:00pm Online	May 13	May 14 **Python Self-Study** Noon, Online	May 15 **Classic Computers** 3:00pm By phone
May 16	May 17 **Apple Dayton SIG** CANCELLED	May 18	May 19	*May* 20 **Linux SIG** 7:00pm Online	May 21 **Python Self-Study** Noon, Online	May 22

For an invitation to the Investment SIG meeting, please e-mail:

Martin.Arbagi@Gmail.com

About The Dayton Microcomputer Association, Inc. (DMA)

By Peter HESS, DMA President, 2018-2020

MORE THAN FORTY-FOUR YEARS AGO, a small group of computer enthusiasts from the Dayton, Ohio area gathered around a kitchen table looking at, and playing with, an early personal computer called the Altair 680 that one of them had purchased. This computer had been featured earlier on the cover of the January 1975 issue of *Popular Electronics* magazine. Paul Allen had shown the selfsame article about the Altair to Bill Gates, and later, they wrote software together for that computer. Still later — and still together — Allen and Gates founded the Microsoft Corporation.

Shortly thereafter, those Dayton-area computer enthusiasts joined together with many others to form THE DAYTON MICROCOMPUTER ASSOCIATION (DMA), now one of the oldest (if not *the* oldest) continuously-operating computer user groups in the world. Typically, computer user groups, and the newer iteration, technology user groups, are volunteer-run operations. The DMA is an all-volunteer led, organized, and run 501(c)(3) non-profit organization.

Now, there are hundreds of computer (or technology) user groups in the world, all of which continue to foster improved communication between technological equipment and software publishers, and users of their products. User groups (both computer and technology) provide an environment where more experienced technology users introduce additional and advanced techniques to novices.

DMA offers both monthly General Membership Meetings, which cover new and innovative topics including a wide range of generic, technological topics, and its Special Interest Groups (SIGs) which address concerns about specific technology interests. There are eight different SIGs sponsored by the DMA, covering such topics as the Linux operating system, various programming languages such as Python, the use of technology to investigate genealogy, and digital aids to investing. Neither SIG members nor attendees at DMA General Meetings need be members of the parent organization, though they are encouraged to join so DMA can continue providing its services to the public.

Annual dues for DMA membership, which have not been raised for decades, are $25 for Regular Members, and $12.50 for Family/Associate Members (someone living at living at the same address as a Regular Member). Nonvoting Student Memberships are *free* to students through age 22. Door prizes at General Meetings, picnics, banquets, and other DMA events, and both product and service discounts are available to all DMA members. **... TDB**

Dayton Microcomputer Association Membership Form

Today's date _____/_____/_____

❒ ***NEW*** Please credit the DMA member who recruited me: _____

❒ ***RENEW*** Contact information below is new ❒ Y ❒ N

TYPE OF MEMBERSHIP

❒ ***REGULAR***

Name _____ Home / Work (_____) _____-_____

Email _____ Mobile Phone (_____) _____-_____

❒ ***ASSOCIATE*** Family Associate membership is for a family member living at the same address as a Regular member. Name of Regular member: _____

Name _____ Home / Work (_____) _____-_____

Email _____ Mobile Phone (_____) _____-_____

❒ ***STUDENT*** Free Student membership is available to those under 22 years of age, enrolled full-time in a program of higher education. Name of School: _____

Name _____ Home / Work (_____) _____-_____

Email _____ Mobile Phone (_____) _____-_____

Home Address _____

City _____ State _____ Zip _____

INTERCHANGE

Skills & interests you might share with DMA _____

What you hope DMA will provide _____

❒ ***SHELL ACCOUNT*** A shell account on the DMA web server provides file storage, hosting of a personal non-commercial website, @dma1.org email alias (forwarding address), all for a one-time fee of $10. A username must be 8 alpha characters. The usual default is last name and first initial, no caps or punctuation. DMA reserves the right of final decision on all usernames: 1st choice _____ 2nd choice _____

DUES AND FEES

Regular membership	$25.00 x ❒ 1yr ❒ 2yr ❒ 3yr	$_____
Family Associate membership	$12.50 x ❒ 1yr ❒ 2yr ❒ 3yr	$_____
Student membership	FREE	$ 0.00
One-time setup fee for Shell account	$10.00	$_____
Total		$_____

**Note: $10.00 fee will be charged for any returned checks*

Make your check payable to: **Dayton Microcomputer Association, Inc**
Mail check and application to: **PO Box 4005**
Dayton OH 45401-4005

Or use Paypal to send your payment to: **membership@dma1.org**

DMA use only

Member# _____ *Exp* ____/_____ *[ ] Cash [ ] Check#* _____ *[ ] Paypal Proc by* _____

Member# _____ *Exp* ____/_____ *[ ] Cash [ ] Check#* _____ *[ ] Paypal Proc by* _____

Member# _____ *Exp* ____/_____ *[ ] Cash [ ] Check#* _____ *[ ] Paypal Proc by* _____

Revised February 25, 2020