

— The DataBus —

Monthly Newsletter of

The Dayton Microcomputer Association

Volume XI (New Series) Nº 7 (July 2021)

Password Managers

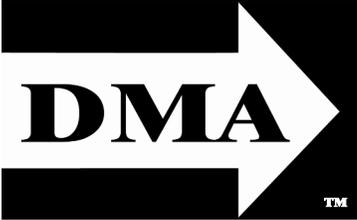
**Jere
MINICH,
APCUG
27 JULY, 7 PM**



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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 18 unless you must renew your membership.


DMA

Post Office Box 4005
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(777-3621)

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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.



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 in 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.

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

No Driving—No Parking—No Charge*

* 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, next door to the Meijer’s Supermarket. Click *here* for a map. The restaurant has free parking. It is also accessible via RTA bus routes 18 and 19, but there is a short walk from the bus stop in the Meijer’s parking lot to the restaurant.

Jere MINICH: *Password Managers*

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

Why Use a Password Manager?

Presented by Jere MINICH, APCUG

MEMORIZING A UNIQUE, COMPLEX PASSWORD for every one of your accounts is impossible. But that’s exactly the sort of chore computers are good at. That’s why many cybersecurity experts recommend using a password manager. It’s a software utility that securely stores passwords and automatically types them into login pages. They help you protect all of your on-line accounts with strong passwords. Many of these managers can generate passwords and store them in encrypted format for that extra layer of protection.

Jere MINICH has been using a password manager for about six years. He will talk about how these managers work, how safe they are, and how to choose from the many that are available. Jere is the Program Director for the Lake-Sumter Computer Society in Florida. They meet weekly when the Lake Sumter Community College is in session. He is a computer systems analyst and retired from the U. S. Navy where he served on submarines and instructed on the Polaris and Trident class. He teaches basic computer classes at the college. Jere frequently gives presentations at his meetings and has given many on-line presentations to APCUG-member groups via the APCUG Speakers’ Bureau.

Our meeting starts at 7:00 P.M. DMA members will receive an invitation by e-mail for use with Zoom. Not a member? You may request an invitation using:

<http://www.dma1.org/contact-us/>

Or... join us at T.J. CHUMPS, 7050 Executive Blvd., Huber Heights OH. Click *here* for a map.

Minutes are normally published almost two months late, because the Minutes for, say, the June Board meeting must be approved by the Trustees at the *following month's* meeting — in this case, early July. The corrected and approved June Minutes would thus appear in the July 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. As the epidemic wanes, Trustees have begun holding "hybrid" meetings. Trustees can come in person or use ZOOM. Meetings begin at 7 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 July General Membership meeting — or come in person!

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

CALL TO ORDER

The meeting was called to order at 7:03 P.M. by Peter Hess, via Zoom.

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

OFFICERS' REPORTS

President – Ken Phelps

No report

Vice President – Peter Hess

Peter regrets having missed last month's General Membership meeting and is thankful that Edwin was able to run the meeting in his place. Peter may have to miss the May General Membership meeting and the July trustee meeting. Edwin and Gladly agreed to step in if necessary.

The presentation at last month's General Membership meeting was on Virtual Computers and their best uses, given by Francis Chao of APCUG. The topic was well presented with plenty of valuable information on free virtual machines that will run inside many versions of Windows.

Secretary – Gladly Campion

Gladly presented Minutes for the previous board meeting. Martin Arbagi moved the Minutes be accepted. Edwin Davidson seconded and the motion passed with Gladly and Ken Phelps abstaining.

Treasurer – Pat Flynn

Pat presented a report for the past month.

COMMITTEE REPORTS

Audit – Gladly Campion

In progress

Fund Raising – Peter Hess

In progress.

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



(Continued on page 5)

Account Balances:

FifthThird Checking.....	\$	2,354.49
FifthThird Savings.....		2,681.58
WPCU Share		38.70
WPCU Checking.....		2,494.80
WPCU Money Mrkt.....		15,063.75
Pay Pal.....		305.93
TIAA CD		5,445.81
Dayton Foundation	+	<u>109,048.15</u>
Total:	\$	137,433.21

(JUNE MINUTES—Continued from page 4)

Mark posted the notice on our Web site.

Membership – Gladly 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 was 24, including 8 who attended in person at TJ Chumps.

Prizes: Ken Phelps chose the LaCie 1Tb Hard Drive donated by Martin's son Michael ARBAGI. Martin took home the 6 ft High Speed HDMI Ethernet Cable donated by Dave Lundy. Mark Camden snagged the Phillips Bass+ over-the-ear wireless headphones. Mike Stock grabbed the Sandisk Ultra Dual Drive Luxe (USB A / USB C) 128 GB 3.1 flash drive.

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

Mark e-mailed the Trustees a report by Wordfence on the security of our Web site. He also reminded us that the main page on our site needs to be updated.

Programs – Peter Hess

Thank you to Francis CHAO of APCUG for a great presentation on Virtual Computers and their best uses!

June – working on a security related topic

Other suggested topics: Ransomware, Deep Fakes, Streaming video, Car hacking, Chromebooks, Bitcoin and Block chain, InitiativeQ.com, Data.ohio.gov, the Apple M1 chip, converting old laptops to Chromebooks.

Publications – Martin Arbagi

The May DATABUS issue was posted to the Web site.

UNFINISHED BUSINESS

Wright State Archives – Martin Arbagi, Gladly Campion

Still in progress

Next Board Meeting

The next Board Meeting will be 7 P.M. on Monday, July 12, 2021 via Zoom.

List of DMA Accounts – Gladly Campion

Gladly is continuing work on a list of all accounts currently held by DMA, when they were established, who has access, and the procedure for maintaining the account. This effort is to prevent us from accidentally being locked out if a member leaves DMA.

Summer Picnic – Gladly Campion

Our picnic is set for Saturday, August 28, at Shellabarger Park in Riverside. Our reservation is from Noon 'til 5 P.M. This will be a "bring your own" brown bag lunch event, with lunch at 1 P.M. and raffle at 2 P.M. There is electricity and we plan to bring a hotspot. Gladly is handling the details.

Tickets (\$5) are on sale now.

VOLUNTEER OF THE MONTH/QUARTER/YEAR

EDWIN DAVIDSON was nominated as Volunteer of the Month for stepping in at the last minute and running the General Membership meeting in May. Great job, Edwin! Thank you!

ADJOURNMENT

Edwin Davidson moved to adjourn at 8:45 P.M. Pat Flynn seconded and the motion passed.

Respectfully Submitted, Gladly Campion, SECRETARY

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*.



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.

Nominations for the DMA Board of Trustees are now open! Contact any current Officer or Trustee for more information.

Nominees must have been DMA members for one year.
Trustees serve 3-year terms.

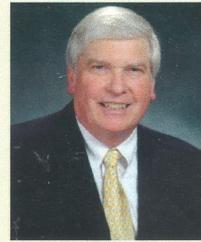
You and your ☹️🕒👁️🌀ing time machine!

By Jove, Harrington, this doesn't seem to be the DMA Trustees' meeting!



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News & Gossip from the Industry

William S. Anderson Dies at 102: the Savior of NCR

William S. "Bill" Anderson died in Palo Alto, California, at the age of 102 on 29 June. Born in China of British ancestry (though his wife is American), Anderson rose through the ranks at the **National Cash Register Corporation** after WWII to become CEO of NCR's Japanese operations, and eventually took the helm of the entire company in Dayton. He changed NCR from a manufacturer of mechanical registers with thousands of precision gears and other machined parts to a firm that made electronic "smart" terminals. Connected (at the time) to a mainframe computer, such terminals helped retailers keep track of in-

ventory, among other functions. NCR also made a foray into the burgeoning personal computer industry. Older DMA members will recall the NCR PC running the CP/M operating system, the business standard before MS-DOS replaced it. NCR PCs had 12 Function Keys when others had 10 or none. [EDITOR'S NOTE: the following link to *The Wall Street Journal* is free. The obituary is far more comprehensive than the perfunctory one given in the Dayton Daily News.]

Former Prisoner of War Saved NCR From Obsolescence - WSJ

John McAfee Found Dead in a Barcelona Prison

John McAfee, founder of the company behind McAfee Antivirus, was found dead on June 23rd. He was being held in a Barcelona (Catalonia [NE Spain]) prison, and the Catalan Department of Justice stated that his death was likely caused by suicide. McAfee was being held pending extradition to the US, since his arrest in October 2020. He faced charges of tax evasion and had also been charged with securities fraud relating to an alleged cryptocurrency "pump and dump" scheme. Spanish courts had approved his extradition that morning. -TheVerge

John Eglinton, author of a forthcoming McAfee biography, says he was really penniless when he died, claims supported by his widow (and

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(DIGITAL WHISPERS—Continued from page 9)

staunch supporter) Janice. [EDITOR'S NOTE: The link below includes a brief video clip from an interview with Mrs. McAfee.]

<https://www.dailymail.co.uk/news/article-9796559/Once-worth-100M-John-McAfee-broke-died-bars-Spain-friend-says.html>

Malware Blamed for Remotely Wiping Western Digital "My Book Live" Disks

Hard disk maker **Western Digital** said last Thursday that some users of its My Book Live cloud storage devices were suddenly losing all their data due to "malicious software" and recommended all users disconnect the devices from the Internet. The problem apparently surfaced through a thread on their support forum. The thread contained complaints about data being deleted and device passwords apparently being changed remotely. Western Digital advised My Book Live users to disconnect their devices to safeguard their data while the company investigates the source of the attack. It also said it doesn't believe its servers were compromised. -Cnet

<https://www.cnet.com/news/malware-blamed-for-remotely-wiping-wd-my-book-live-users-disks/>

Kroger Launches Historic First Commercial Drone Flight

Despite a little rain, Kroger took flight with its first retail drone delivery the morning of June 9th in the Dayton suburb of Centerville, flying a box containing two packages of long-grain rice to Centerville Mayor Brooks Compton on the front lawn of city offices on West Spring Valley Pike. Also delivered with the rice was a piece of cloth from the first Wright Brothers Flyer, shared by the Wright family and the Dayton History organization. This was the first official commercial drone delivery of a grocery purchase. For the time being, there is no charge for delivery via drones. Kroger has begun accepting orders from customers living within a mile of the Kroger Marketplace store at 1095 S. Main St. -Dayton Daily News

<https://www.daytondailynews.com/local/despite-rain-kroger-launches-historic-first-commercial-drone-flight/4IK7D2KHYRDXTFYBT35IZNHZ64/>

FBI Sold Phones to Criminals and Read 27 Million of Their "Encrypted" Messages

The FBI created a phony company that sold encrypted devices to hundreds of organized crime syndicates, resulting in 800 arrests in 16 countries. The FBI and agencies in other countries intercepted 27 million messages over 18 months before making the arrests in recent days, with more arrests planned. Distribution of the devices began in October 2018. The cell phones sold by the FBI-run company were

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(QR CODES—Continued from page 10)

"procured on the black market" and "performed a single function hidden behind a calculator app: sending encrypted messages and photos," according to *The New York Times*. Once users entered a code, they could use the app to send messages that they thought were protected by end-to-end encryption. But the messages were also routed to an FBI-owned server and decrypted with a master key controlled by the FBI.
-ARS Technica

<https://arstechnica.com/tech-policy/2021/06/fbi-sold-phones-to-organized-crime-and-read-27-million-encrypted-messages/>

The Father of The Web Is Selling the Source Code as an NFT

Sir Tim Berners-Lee has auctioned off the original source code for the World Wide Web as an NFT [= "non-fungible token"]. The work includes the original archive of dated and time-stamped files from 1990 and 1991, containing 9,555 lines of source code and original HTML documents that taught the earliest Web users how to use the application. The auction item also includes an animated 30-minute video of the code being written and a digital signature from Berners-Lee himself, as well as a letter written by him over 30 years later in which he reflects on the process of creating the code and the impact it has made. Titled "This Changed Everything," the source code was auctioned by Sotheby's in London from June 23 to 30. The bidding started at just \$1,000 and, according to the press release, the money will go to "initiatives" supported by Berners-Lee and his wife.-NPR

<https://www.npr.org/2021/06/17/1007414231/the-father-of-the-web-is-selling-the-source-code-as-an-nft>

Norton/Lifelock in Talks to Merge with Avast, Creating New Cybersecurity Giant

Norton-Lifelock announced on Wednesday, 15 July, that it is in talks to buy Czech cybersecurity firm **Avast**. The deal would be a combined cash-and-stock one. Avast itself has been active on the M&A (mergers and acquisitions) front over the last few years, with its purchases of **Piriform**, publishers of the popular PC cleanup utility **CCleaner**, and American cybersecurity firm **AVG** (formerly "Anti-Virus Group"). We hope that the impending buyout will not affect Avast's high ratings and support for older operating systems such as Windows Vista, and soon, Windows 10. Even more important, we hope that **Norbert "Bob" Gostischa**, who bills himself as the "Avast Evangelist," can continue to be Avast's liaison to digital technology users' groups such as APCUG. -*The Wall Street Journal*, 15 July 2021, Page B-1.

[EDITOR'S NOTE: Unfortunately, this article is behind *The Wall Street Journal's* paywall. You must be a subscriber with a password to view it on line. The WSJ, however, is available at most public libraries.]

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2021 DMA SUMMER PICNIC

Don't be like Harrington and his "spaghettified" friend! Click [here](#) for directions to our new location: Shellabarger Park in ritzy suburban Riverside. This will be a "brown bag" picnic (bring *your own* food) on Saturday, 28 August, from Noon to 5 P.M. Electricity will be available, and we'll try to supply a hot spot. No alcoholic beverages or glass bottles, please!!

\$5.00 ... Cheap! See Gladly Champion for tickets.

Chip Shortages Breed Counterfeits

Desperate manufacturers have been turning to dubious sources for much-needed computer chips. They often discover that such chips don't meet specifications ... or don't work at all! X-ray machines reveal that some "gray market" chips are exactly that: mere chips of solid plastic with wires sticking out of them in realistic positions. Unfortunately, specialized X-ray machines designed specifically to identify fraudulent chips can cost as much as \$90,000. Nonetheless, more and more manufacturers are buying the devices to protect themselves against suspicious chip vendors.—*The Wall Street Journal*, 15 July 2021, Page B-4.

[EDITOR'S NOTE: Unfortunately, this article, like the previous one, is behind *The Wall Street Journal's* paywall. You must be a subscriber to view it on line. The WSJ, however, is available at most public libraries.]

... TDB

'Tis the Season for Fraudulent E-mail

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

YOU HAVE PROBABLY ALREADY RECEIVED E-MAILS that appear to come from a bank or other online service requesting that you verify account credentials. You might have been asked to provide personal information including account and credit card numbers and passwords. This is a standard **phishing** technique; oddly, the senders are asking for information they should *already* have.



Unfortunately, during the COVID-19 pandemic, we've seen once again that phishing lures are mutating (like the COVID virus) and they're often hard to recognize.

Phishing is a form of social engineering e-mail attack in which the sender tries to gain access to login credentials, to get confidential information, or to deliver a virus. This is accomplished by tricking humans like you and me.

Scammers know there's a good chance that any message will be scanned for malicious content by the security software of your browser and mail provider. Google, Edge, and most other browsers are pretty decent about stopping known spam, but plenty still gets through. Scammers are constantly changing techniques.

Since the coronavirus pandemic started to unfold, fraudsters have wasted no time in trying to profit from the uncertainty and fear connected to the crisis. In March 2020, when this all started, there was a flood of COVID-19 themed spam, spreading malware, phishing for sensitive information, or offering bogus products.



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(FRAUDULENT E-MAILS—Continued from page 13)

According to Google, scammers were sending 18 million phishing emails about COVID-19 to Gmail users every day in March, which Google blocked. In April Google was blocking more than 100 million phishing e-mails a day. And these are just the phishing e-mails the tech giant blocked. Yet some still appear in your Inbox, and if you can't spot a phishing e-mail, you could be the next victim.

It is no surprise that the coronavirus pandemic has become a top subject for attackers. The appearance of any crisis brings new circumstances that provide a new environment for cyber-criminals to innovate. At the same time, phishing attacks have also benefited from the number of new remote workers.

So how do you recognize suspicious e-mails?

Look at the sender e-mail address.

The sender's e-mail address is the first place to look. If it looks "funny" or unfamiliar be careful with that message. You can check the e-mail address by hovering your mouse over the "from" address *but don't click*. Scammers' e-mail addresses used to be anonymous or had very generic names with many numbers. Sometimes the sender's e-mail address wouldn't match the sender's name or the body of the message.

Receiving e-mails about a problem with your account from financial institutions with whom you have no relationship is a laughable give-away. But if you *do* get an e-mail claiming to be from your bank, closely review the e-mail address. The e-mail address is sometimes the only sign of a scam, due to how professional the messages look. If you feel the e-mail might be legitimate, check your account the way you would normally access it (not via a link provided in the e-mail).

Keep in mind that any big outfit is going to have an eponymous address *e.g.*: you contact PayPal at an address that *includes* paypal.com.

Be suspicious of attached files or unfamiliar links.

Cyber criminals' e-mails might contain malware or send you to a malicious web destination. If you are at all suspicious, don't click. Legitimate service providers don't send messages requesting you to log in via an embedded link. Also, pay special attention to attached files — once they are opened, these attachments can install malware to give others control over your computer. They can then initiate attacks on other computers, including by sending spam (often infected) to every contact in your address book.

Watch for poor English.

Poor grammar or words used in an unusual way are possible indications of phishing. Always be suspicious; looking for unusual language and vocabulary, or misspelled words can help prevent you from becoming the next victim. Poor spelling and other grammar mistakes are common with phishing e-mails that have been translated from other languages. This kind of clue is less common today because the quality of social engineering has improved, so you are likely to receive a more professional presentation. Another thing that can signal an at-



(Continued on page 15)

(FRAUDULENT E-MAILS—Continued from page 14)

tempted attack is generic greetings such as “Dear recipient” or “Dear friend.”

There’s sometimes a purpose behind misspellings and poor syntax. Cybercriminals most successfully prey on uneducated computer users, knowing them to be less observant and therefore easier targets.

Is it too good to be true or is it frightening?

Social engineering focuses on two human weaknesses: fear and greed. Does the e-mail promise you a windfall of cash? Does it suggest you inherited a fortune or will be paid a fortune to help someone move money out of another country? Here’s an idea: Google for the same message, or a key phrase from that message. (highlight, right-click, search Google). You’ll often see that many other people have received the same or similar fraudulent message.



Would-be cybercriminals using social engineering methods are very opportunistic. For example, during the upcoming holiday season the names of shopping Web sites such as Amazon and Mayfair

are used in sending out millions of e-mails claiming problems with your account or recent order and asking for personal information. Senders know consumers are most likely to have made purchases at that time of the year.

The scammer may want to panic you into doing something. Don’t be threatened by an e-mail. Does the message urgently ask for help or otherwise appeal to your emotions? These are common techniques. Do not respond to an e-mail threatening to suspend your account if you do not answer in a short time.

Homoglyph attacks

Homoglyph attacks rely on replacing characters in addresses with ones that look similar, or are the same, but belong to different alphabets. These attacks are extremely dangerous for users because there is a very limited chance of detecting the trick. An example of this was the attack on PayPal users in which the address contained the “correct letters” taken from our Latin alphabet – with two exceptions. The attackers replaced both instances of the letter P with a “P” look-alike letter, but *from a different alphabet*. This “P” look-alike letter was taken from the Russian (or Cyrillic) alphabet, where it is equivalent to the letter R. [EDITOR’S NOTE: “P” also is the upper-case “R” in the Greek alphabet.] With this kind of attack, you are dependent on the other clues discussed in this article to protect yourself.

... TDB

**“If you can’t spot a phishing e-mail,
you could be the next
victim.”**

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

Martin.Arbagi (at) Gmail.com

DMA Events for Jun 18 – Aug 21, 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jul 18	Jul 19 Apple Dayton SIG CANCELLED	Jul 20	Jul 21	Jul 22	Jul 23 Python Self-Study Noon, Online	Jul 24
Jul 25	Jul 26	Jul 27 MAIN MEETING 7:00pm Online -AND- TJ Chumps 7050 Executive Blvd Huber Heights	Jul 28	Jul 29 	Jul 30 <i>Sys Admin Day</i> Python Self-Study Noon, Online	Jul 31 PYOHIO
Aug 1	Aug 2 DMA Trustees 7:00pm Online	Aug 3	Aug 4	Aug 5 Genealogy SIG CANCELLED	Aug 6 Python Self-Study Noon, Online	Aug 7 Classic Computers 3:00pm By phone
Aug 8	Aug 9	Aug 10 Investment SIG 7:00pm Online	Aug 11 Dayton Dynamic Languages 7:00pm Online	Aug 12 NASAC 6:00pm Xenia Library	Aug 13 Python Self-Study Noon, Online	Aug 14
Aug 15	Aug 16 Apple Dayton SIG CANCELLED	Aug 17 NEW to the WEB Dayton Web Developrs 6-8pm, Rm 3A Dayton Main Library	Aug 18	Aug 19 Linux SIG 7:00pm Online	Aug 20 Python Self-Study Noon, Online	Aug 21 Classic Computers 3:00pm By phone

Please note the misprint in the Calendar's headline. It should read: "DMA Events for Jul 18—Aug 21, 2021"

About The Dayton Microcomputer Association, Inc. (DMA)

By Peter HESS, DMA President, 2018-2020

ABOUT FORTY-FIVE 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.



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 <input type="checkbox"/> 1yr <input type="checkbox"/> 2yr <input type="checkbox"/> 3yr	\$ _____
Family Associate membership	\$12.50 x <input type="checkbox"/> 1yr <input type="checkbox"/> 2yr <input type="checkbox"/> 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 _____