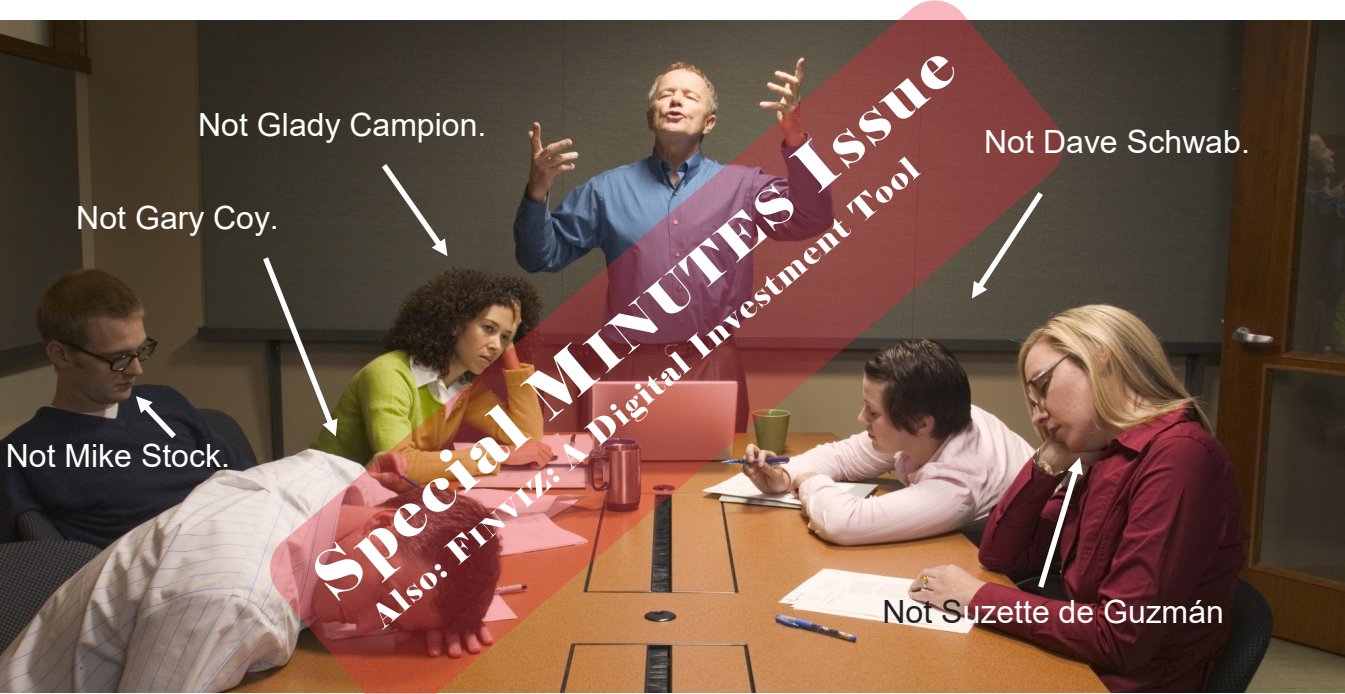


— The Databus —
Monthly Newsletter of
The Dayton Microcomputer Association
Volume XIV (New Series) Nº 1 (February 2024)



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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 22 (the rear cover) unless you wish to become a member or renew your membership.



Post Office Box 4005
Dayton, Ohio 45401
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Visit us at:

DMA1.org

Your 2023/24 Officers:

President

Dave SCHWAB

Vice-President

Mike STOCK

Secretary

Glady CAMPION

Treasurer

Pat FLYNN

*Officers need not be
Trustees.*

Trustees:

Gary COY

Suzette DE GUZMAN

Patrick FLYNN

Chester HOWES

Ken PHELPS

Dave SCHWAB

Ed SKUYA

Mike STOCK

Gary TURNER

Website Team:

Mark CAMDEN

Glady CAMPION

Pat FLYNN

Gary TURNER

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.



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 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.

ALL REGISTERED TRADEMARKS, for example: the DMA Arrow, APCUG, Evolv, Finviz, or Zoom, are the property of their respective owners. However, the Registered Trade Mark symbols (® or ™) have been omitted for better readability. The Editor occasionally inserts comments into articles. Such comments are sometimes preceded by the phrase: "EDITOR'S NOTE," are often in square brackets [like these], and are always in sans-serif type, like these paragraphs.

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 or repair for your digital device or network, please seek the advice or services of a qualified professional.

February Meeting: 7:00 P.M., Tuesday, the 27TH No Driving—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 suburban 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 department store parking lot to the restaurant. *Guests welcome—invite a friend!*

February Meeting ... Gaming—2024

... Gary Coy, *Enthusiastic Gamer & DMA Trustee*

THE GAMING INDUSTRY has been growing with stunning speed. Over the last five years in particular, it has experienced significant expansion as users worldwide play games of all types across a variety of platforms. An estimated 2.9 billion people — more than one out of every three people on the planet — played a video game in 2021. Amid the rapid growth of gaming, its basic drivers are still familiar: processors are getting faster, improving graphics and the overall gaming experience. Console makers are also launching new hardware with better capabilities and offering more exclusive game titles. Moreover, global internet availability will continue to rise, enabling more people to play online games.. Multiplayer games, mobile games and the population of casual gamers all are expected to continue to expand.

Video games are too often dismissed as unsophisticated or the domain of couch potatoes, but many common elements of these simulated worlds can provide tangible benefits in real life. Benefits of video games for both children and adults include: healthy brain stimulation, stress relief, improvement of problem solving skills.

Gary will be talking tonight about the various gaming platforms: handheld gaming, cloud gaming, and streaming services. Gary is a past DMA President and Trustee, and also a frequent presenter.

He is an IT professional by day and offers computer technical support via his company, “Gary’s Computers”.

The meeting is free and open to the public. To attend in person, come as early as 6 P.M. T.J. Chump’s restaurant has free parking, and is also accessible via public transit (RTA bus routes 18 and 19, but there is a short walk from the Meijer’s supermarket parking lot to the restaurant). To join via ZOOM, click on the following link as early as 6:45 P.M. :

Launch Meeting - Zoom

... TBD

THANK YOU to our TECHFEST Volunteers

Thanks to GRANT ROOT and the other Dayton Linux volunteers, and to STEPHEN FREY, GARY GANGER, and the other Computer Museum volunteers! We had another successful event, talking to many students and their parents, and even a few former DMA members.

Minutes are normally published almost *two* months late, because the Minutes for, say, the January Board meeting must be approved by the Trustees at the *following month's* meeting in early February. The corrected Minutes would then appear in the February issue (this one) of THE DATABUS, published toward the end of the month.

Trustees' meetings are usually on the *first Monday* of each month, except when that day is a legal holiday, for example: Labor Day in September.

During the recent epidemic, Trustees began meeting via ZOOM. This was so successful that they decided to continue the practice indefinitely. Meetings begin at 7 P.M. and are open to all DMA members. Request ZOOM credentials (that's a fancy way of saying "an invitation") from Secretary GLADY CAMPION at Tuesday's General Membership meeting.

—Editor's Note—

The Editor wishes to thank Ms. Gladly CAMPION, DMA's Corporate Secretary, for performing the herculean task of sifting through the recordings of meetings, some of which she missed through no fault of her own, compiling Minutes from these recordings, and finally, for *totally* reconstructing the Minutes of the September Meeting, the recording of which has been irretrievably lost because of a technical error.

The Editor has taken the liberty of silently correcting a few obvious misprints. Several no doubt remain, and we'd appreciate anyone who would point out additional corrections or additions.

(Reconstructed) MINUTES
DMA Board of Trustees
Meeting of Monday, September 11, 2023

CALL TO ORDER

The meeting was called to order at 7:00 P.M. by Gary Coy, via ZOOM.

TRUSTEES PRESENT: Gary Coy, Suzette de Guzman, Pat Flynn, Chester Howes, Dave Schwab, Ed Skuya, Mike Stock, and Gary Turner. **Absent:** Ken Phelps. **Guests:** Mark Camden, Gladly Campion, Peter Hess.

OFFICERS' REPORTS**President – Gary Coy**

The picnic went well, even though someone had run into to the port-a-john with an automobile and destroyed it. The weather was great, There was plenty of food, and we went through two rounds of door prizes.

Vice President – Mike Stock

Mike attended the Genealogy, Investment, and Linux SIGs, Computer Museum Committee meet, and NASAC this past month.

Secretary – Gladly Campion

Gladly presented Minutes for the June Board meeting. Mike Stock moved the Minutes be accepted as corrected. Gary Turner seconded and the motion passed with Gladly abstaining.

Treasurer – Pat Flynn

Pat presented a report for July.

COMMITTEE REPORTS**APCUG REPRESENTATIVES – Peter Hess, Mike Stock**

Watching for news from APCUG.

AUDIT – Gladly Campion

No change. Gladly is dealing with personal issues.

COMPUTER MUSEUM – Peter Hess

The HVAC system inspection is delayed until Chris Tobias is available.

Edwin provided a ladder long enough for Stephen to have a look at the unit on the roof. The disconnect was off at the unit. Stephen cleaned the condenser and evaporator coils and tightened the fan belt a little. He removed the panel from the heat exchanger and found the heat exchanger was cracked. So the unit can provide cooling, but needs a new heat exchanger in order to provide heat in the colder months.

The Internet and Simply Safe are back up.

Recent donations include: 2 Apple IIe machines, 3 Timex Sinclairs, 3 Epson HX20s, and a Kaypro 10.

FUND RAISING – Peter Hess

Efforts are ongoing.

MARKETING – Peter Hess, Edwin Davidson, Pat Flynn

Efforts are ongoing.

MEMBERSHIP – Gladly Campion

In June, we had 36 Regular, 5 Associate, 0 Student, and 5 Lifetime members for a total of 46. There were 20 in attendance at the June General Membership meeting, with 11 attending in person.

(Continued on page 6)

(SEPTEMBER TRUSTEES' MINUTES—Continued from page 5)

DOOR PRIZES: Pat Flynn won the K-66 Bluetooth Cassette Player. Clint Corwin took home the Vivosan Indoor/Outdoor Thermometer. Mark Camden scored the JBL Go2 Bluetooth Speaker. Rick Wills snatched the Nexigo P-5 Charge Dock. Ed Skuya picked up the iDonut Travel Power Strip. Myron Schlensker chose the Paulios Smart Watch.

WEB SITE TEAM – Mark Camden, Pat Flynn, Glady Campion, Gary Turner

Another member contacted us about problems with his Web site. Mark explained how to move the site to Google Sites.

PROGRAMS – OPEN!

July - What will 5G mean to You? — video by Ron Brown, APCUG.

August - TBD

SUGGESTIONS FOR FUTURE MEETINGS:

The Tarnished Side of Cryptocurrency; Fiber Internet; Touchless security from Evolv Technology and how it spots threats such as concealed weapons using digital sensors. Also suggested: Installing Linux on a Google Chromebook, or running Linux on the Windows sub-system for Linux (WSL), or installing Windows on a Linux Virtual Machine

PUBLICATIONS – Martin Arbagi

No DATABUS was posted for June.

UNFINISHED BUSINESS

WRIGHT STATE ARCHIVES – Martin Arbagi, Glady Campion

Still in progress

NEXT BOARD MEETING

Next Board Meeting will be 7:00 P.M. on Monday, October 2, 2023. We will continue to use ZOOM.

LIST OF DMA ACCOUNTS – Glady Campion

Still in progress

NEW BUSINESS

DMA ANNUAL MEETING AND TRUSTEE ELECTIONS – Gary Coy

Past Trustees who are eligible for this month's election are:

- ✓ Edwin Davidson
- ✓ Peter Hess
- ✓ Glady Campion

ADJOURNMENT

Pat Flynn moved to adjourn at 8:18 P.M. Chester Howes seconded, and the motion passed.

MINUTES—DMA Board of Trustees Meeting of Monday, October 2, 2023

CALL TO ORDER

The meeting was called to order at 7:00 P.M. by Gary Coy, via ZOOM.

TRUSTEES PRESENT: Gary Coy, Suzette de Guzman, Pat Flynn, Chester Howes, Dave Schwab, Ed Skuya, and Mike Stock. **ABSENT:** Ken Phelps, Gary Turner. **GUESTS:** Mark Camden, Glady Campion, Peter Hess.

OFFICERS' REPORTS

President – Gary Coy

Last month's meeting on Android Auto and Apple Car Play went well. Two Trustees were elected: Glady Campion and Peter Hess.

(Continued on page 7)

(OCTOBER TRUSTEES' MEETING—Continued from page 6)

Vice President – Mike Stock

Mike attended the Genealogy, Investment, Dynamic Languages SIGs and NASAC.

Secretary – Gladly Campion

Gladly had no Minutes for the September meeting. Internet connection problems interfered with taking of the Minutes.

Treasurer – Pat Flynn

Pat presented a report for September. Figures displayed are for January through August.

COMMITTEE REPORTS

APCUG REPRESENTATIVES – Peter Hess, Mike Stock

Watching for news from APCUG.

AUDIT – Gladly Campion

In progress.

COMPUTER MUSEUM – Peter Hess

The HVAC system inspection is delayed until Chris Tobias is available. Gladly will check our responsibility as spelled out in the rental agreement. She will also contact the landlord.

Stephen plans to give a demonstration at the Museum of the Air Force Rocket Day on October 7. He has not heard yet from Women in STEM, which is usually held in November.

FUND RAISING – Peter Hess

Efforts are ongoing.

MARKETING – Peter Hess, Edwin Davidson, Pat Flynn

Efforts are ongoing. Peter Hess is working on a WIKI page for DMA.

MEMBERSHIP – Gladly Campion

As of the September meeting, we had 34 Regular, 5 Associate, 0 Student, and 5 Lifetime members for a total of 44. Attendance was 23, with 15 attending in person.

DOOR PRIZES: Mike Stock won the computer sound bar, Jeff Walton picked up the wireless keyboard, Dean Schrickel grabbed the Lavalier microphone, and Dave Schwab chose the Sandisk 128 Gb flash drive.

WEB SITE TEAM – Mark Camden, Pat Flynn, Gladly Campion, Gary Turner

Mark is working on cleaning up the accumulation of unnecessary files in our Dreamhost account.

PROGRAMS – OPEN!

September – DMA Annual Meeting and Trustee elections, plus a talk on Android Auto and Apple Car Play by Gary Coy

October – Presentation on Cybersecurity by Bob Gostischa, APCUG.

SUGGESTIONS FOR FUTURE MEETINGS:

The Tarnished Side of Cryptocurrency; Fiber Internet; Touchless security from Evolv Technology and how they spot threats such as concealed weapons using digital sensors. Also suggested: Installing Linux on a Google Chromebook, or running Linux on the Windows subsystem for Linux (WSL), or installing Windows on a Linux Virtual Machine

PUBLICATIONS – Martin Arbagi

DATA BUS was posted for September.

UNFINISHED BUSINESS

WRIGHT STATE ARCHIVES – Martin Arbagi, Gladly Campion

Still in progress

NEXT BOARD MEETING

Next Board Meeting will be 7:00 P.M. on Monday, November 6, 2023. We will continue to use ZOOM.

(Continued on page 8)

(OCTOBER TRUSTEES' MINUTES—Continued from page 7)

LIST OF DMA ACCOUNTS – Gladly Champion

Still in progress

NEW BUSINESS

ELECTION OF DMA OFFICERS. And the winners are:

- ✓ **DAVE SCHWAB, President**
- ✓ **MIKE STOCK, Vice president**
- ✓ **GLADY CAMPION, Secretary**
- ✓ **PAT FLYNN, Treasurer**

ADJOURNMENT

Dave Schwab moved to adjourn at 8:17 P.M. Pat Flynn seconded, and the motion passed.

MINUTES—DMA Board of Trustees Meeting of Monday, November 6, 2023

CALL TO ORDER

The meeting was called to order at 7:00 P.M. by Dave Schwab, via ZOOM.

TRUSTEES PRESENT: Gary Coy, Gladly Champion, Pat Flynn, Peter Hess, Dave Schwab, and Mike Stock. And Gary Turner. **ABSENT:** Suzette deGuzman. **GUESTS:** Mark Camden, Ken Phelps.

OFFICERS' REPORTS

President – Dave Schwab

Dave has succeeded Gary Coy as President. He thanked Gary for his service to the club. Dave mentioned that our October meeting on Cybersecurity went well, even though we had a last minute substitution. Judy Taylour stepped in and delivered the presentation since Bob Gostischa was called away.

Vice President – Mike Stock

Mike attended the Genealogy, and Investment SIGS, the Computer Museum team meeting, and two of the APCUG sessions.

Secretary – Gladly Champion

Gladly presented Minutes for the October trustee meeting. Mike Stock moved the minutes be accepted as corrected, Gary Coy seconded, and the motion passed with Gladly abstaining.

Treasurer – Pat Flynn

Pat presented a report for October.

COMMITTEE REPORTS

APCUG REPRESENTATIVES – Peter Hess, Mike Stock

Watching for news from APCUG.

AUDIT – Gladly Champion

In progress.

COMPUTER MUSEUM – Peter Hess

The HVAC system inspection is delayed until Chris Tobias is available. Gladly will check our responsibility as spelled out in the rental agreement. She will also contact the landlord.

Stephen plans to give a demonstration at the Museum of the Air Force Rocket Day on October 7. He has not heard yet from Women in STEM, which is usually held in November.

FUND RAISING – Peter Hess

Efforts are ongoing.

MARKETING – Peter Hess, Edwin Davidson, Pat Flynn

Efforts are ongoing. Peter Hess is working on a WIKI page for DMA.

(Continued on page 9)

(NOVEMBER TRUSTEES' MEETING—Continued from page 8)

MEMBERSHIP – Gladly Campion

As of the September meeting, we had 34 Regular, 5 Associate, 0 Student, and 5 Lifetime members for a total of 44. Attendance was 23, with 15 attending in person.

DOOR PRIZES: Mike Stock won the computer sound bar, Jeff Walton picked up the wireless keyboard, Dean Schrickel grabbed the Lavalier microphone, and Dave Schwab chose the Sandisk 128 Gb flash drive.

Web Site Team – Mark Camden, Pat Flynn, Gladly Campion, Gary Turner

Mark continues to work on cleaning up the accumulation of unnecessary files in our Dream-host account.

Programs – OPEN!

September – DMA Annual meeting and Trustee elections, plus a talk on Android Auto and Apple Car Play by Gary Coy

October – Presentation on Cybersecurity by Bob Gostischa, APCUG.

SUGGESTIONS FOR FUTURE MEETINGS:

The Tarnished Side of Cryptocurrency; Fiber Internet; Touchless security from Evolv Technology and how they spot threats such as concealed weapons using digital sensors. Also suggested: Installing Linux on a Google Chromebook, or running Linux on the Windows sub-system for Linux (WSL), or installing Windows on a Linux Virtual Machine.

PUBLICATIONS – Martin Arbagi

DATABUS was posted for September.

UNFINISHED BUSINESS

WRIGHT STATE ARCHIVES – Martin Arbagi, Gladly Campion

Still in progress

NEXT BOARD MEETING

Next Board Meeting will be 7:00 P.M. on Monday, September 11, 2023. We will continue to use ZOOM.

LIST OF DMA ACCOUNTS – Gladly Campion

Still in progress.

ADJOURNMENT

Dave Schwab moved to adjourn at 8:17 P.M. Pat Flynn seconded and the motion passed

MINUTES—DMA Board of Trustees Meeting of Monday, December 5, 2023

CALL TO ORDER

The meeting was called to order at 7:00 P.M. by Gary Coy, standing in for Dave Schwab, via ZOOM.

TRUSTEES PRESENT: Gary Coy, Pat Flynn, Peter Hess, Chester Howes, Mike Stock. and Gary Turner.

ABSENT: Gladly Campion, Suzette de Guzman, Dave Schwab, **GUESTS:** Mark Camden.

OFFICERS' REPORTS

President – Dave Schwab

We enjoyed the presentation given by the Bonds 5811 organization at our November monthly meeting .They gave a description of their organization, introduced several of their members, explained how each team member contributed to the group, and gave us a taste of the robot competitions they participated in. First Robotics clearly provides opportunities to the team members that they would not find elsewhere.

(Continued on page 10)

(JANUARY TRUSTEES' MEETING—Continued from page 9)

Vice President – Mike Stock

Mike attended the Genealogy, Investment, and networking SIGS, and the Computer Museum team meeting.

Secretary – Gladly Campion (absent)

Gladly is likely busy preparing for the Holiday Dinner tomorrow night.

Treasurer – Pat Flynn

Pat presented a report for November.

COMMITTEE REPORTS

APCUG REP – Peter Hess, Mike Stock

Peter e-mailed the board the latest info from APCUG.

COMPUTER MUSEUM – Peter Hess

Peter is still talking with Pete Stroble of the British Transportation Museum about renting space at their facility for our computer museum. They have not shared any information on how much they would charge. The museum core group is busy preparing for Techfest in February.

FUND RAISING – Peter Hess

Efforts are ongoing.

MARKETING – Peter Hess, Edwin Davidson, Pat Flynn

Nothing much to report for this month.

MEMBERSHIP – Gladly Campion

As of the November meeting, we had 35 Regular, 5 Associate, 0 Student, and 5 Lifetime members for a total of 45. Attendance was 20, with 12 attending in person.

DOOR PRIZES: Pat Flynn won the 512 GB memory card. Rick Wills picked up the 1TB flash drive. Eric Ottoson scored the Marklife P12 USB label maker. Ed Skuya took home the Mectev T8 hidden camera detector.

WEB SITE TEAM – Mark Camden, Pat Flynn, Gladly Campion, Gary Turner

Mark noticed that several of our scheduled meetings are not listed on Meetup. Pat Flynn will look into that. Peter asked about adding a Friends page to the Web site. Mark asked Peter to provide a list of who should be listed as Friends, get permission from these groups to put their info on our site, and ask approval from the board to add the Friends page. Mark has no room on the current website design to add another top menu item. The Friends page would be added as a link on the About page.

Programs – OPEN!

Thank you to the bonds group for introducing us to their organization, their members, and showing what teamwork is needed to design, build, and compete with their robots each year.

January – Gary Coy will host his annual “Tech Stuff We Got for the Holidays”

February – Dave Schwab will introduce Raspberry Pi 5

March – Gary Coy is planning a presentation on handheld gaming.

SUGGESTIONS FOR FUTURE MEETINGS:

The Tarnished Side of Cryptocurrency; Fiber Internet; Touchless security from Evolv Technology and how they spot threats such as concealed weapons using digital sensors. Also suggested: Installing Linux on a Google Chromebook, or running Linux on the Windows subsystem for Linux (WSL), or installing Windows on a Linux virtual Machine.

PUBLICATIONS – Martin Arbagi

No DATABUS has been posted yet for December.

UNFINISHED BUSINESS

WRIGHT STATE ARCHIVES – Martin Arbagi, Gladly Campion

Still in progress

(Continued on page 11)

(JANUARY TRUSTEES' MEETING—Continued from page 10)

NEXT BOARD MEETING

Next Board meeting will be 7:00 P.M. on Monday, January 8, 2024. We will continue to use ZOOM.

NEW BUSINESS

Donation to the Bonds 5811 group. Peter moved that DMA become a sponsor of the Bonds group by offering a donation of \$1000. They would add our name and logo to their sponsors page, the banners they display at competitions, and on their T-shirts. Pat Flynn seconded and the motion passed unanimously. Pat will fill out the form for sponsorship and send the check.

ADJOURNMENT

Pat Flynn moved to adjourn at 8:13 P.M. Mike Stock seconded, and the motion passed.

MINUTES—DMA Board of Trustees Meeting of Monday, January 8, 2024

CALL TO ORDER

The meeting was called to order at 7:00 P.M. by Gary Coy, standing in for Dave Schwab, via ZOOM.

TRUSTEES PRESENT: Gary Coy, Pat Flynn, Peter Hess, Chester Howes, Mike Stock, and Gary Turner. **ABSENT:** Gladys Campion, Suzette de Guzman, Dave Schwab. **GUESTS:** Mark Camden.

OFFICERS' REPORTS

President – Dave Schwab

We enjoyed the presentation given by the Bonds 5811 organization at our November monthly meeting. Members introduced themselves, gave a description of their organization, explained how each team member contributed to the group, and gave us a taste of the robot competitions they participated in. First Robotics clearly provides opportunities to the team members that they would not find elsewhere.

Vice President – Mike Stock

Mike attended the Genealogy, Investment, and networking SIGS, and the Computer Museum team meeting.

Secretary – Gladys Campion (absent)

Gladys is likely busy preparing for the Holiday Dinner tomorrow night.

Treasurer – Pat Flynn

Pat presented a report for November.

COMMITTEE REPORTS

APCUG REP – Peter Hess, Mike Stock

Peter e-mailed the board the latest information from APCUG.

AUDIT – Gladys Campion

In progress.

COMPUTER MUSEUM – Peter Hess

Peter is still talking with Pete Stroble of the British Transportation Museum about renting space at their facility for our computer museum. They have not shared any information on how much they would charge. The museum core group is busy preparing for Techfest in February.

FUND RAISING – Peter Hess

Efforts are ongoing.

(Continued on page 12)

(Continued from page 11)

MARKETING – Peter Hess, Edwin Davidson, Pat Flynn

Nothing much to report for this month.

MEMBERSHIP – Gladly Champion

As of the November meeting, we had 35 Regular, 5 Associate, 0 Student, and 5 Lifetime members for a total of 45. Attendance was 20, with 12 attending in person.

DOOR PRIZES: Pat Flynn won the 512 GB memory card. Rick Wills picked up the 1TB flash drive. Eric Ottoson scored the Marklife P12 USB label maker. Ed Skuya took home the Mectev T8 hidden camera detector.

WEB SITE TEAM – Mark Camden, Pat Flynn, Gladly Champion, Gary Turner

Mark noticed that several of our scheduled meetings are not listed on Meetup. Pat Flynn will look into that. Peter asked about adding a Friends page to the website. Mark asked Peter to provide a list of who should be listed as Friends, get permission from these groups to put their info on our site, and ask approval from the board to add the Friends page. Mark has no room on the current website design to add another top menu item. The Friends page would be added as a link on the About page.

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PUBLICATIONS – Martin Arbagi

No DATABUS has been posted yet for December.

UNFINISHED BUSINESS**WRIGHT STATE ARCHIVES – Martin Arbagi, Gladly Champion**

Still in progress

NEXT BOARD MEETING

Next Board meeting will be 7:00 P.M. on Monday, January 8, 2024. We will continue to use ZOOM.

LIST OF DMA ACCOUNTS – Gladly Champion

Still in progress

NEW BUSINESS

Donation to the Bonds 5811 group: Peter moved that DMA become a sponsor of the Bonds group by offering a donation of \$1000. They would add our name and logo to their sponsors page, the banners they display at competitions, and on their T-shirts. Pat Flynn seconded and the motion passed unanimously. Pat will fill out the form for sponsorship and send the check.

ADJOURNMENT

Pat Flynn moved to adjourn at 8:13 P.M. Mike Stock seconded, and the motion passed.

Respectfully Submitted,

Gladly Champion,
Secretary

—[FINVIZ.COM](https://finviz.com): An On-Line Stock Screener—

By Martin ARBAGI, Chairman, Investment SIG (*Special Interest Group*) of the Dayton Micro-computer Association (DMA)

MARTIN.ARBAGI (AT) GMAIL.COM

DMA'S DIGITAL INVESTMENT SIG does not make recommendations for purchase, sale, or retention of stocks or other securities. Although some private discussion of our activities does inevitably arise during our meetings, None of us are Registered Investment Advisors. What we *will* do is to discuss and evaluate various digital investment Web sites. Perhaps the best known of these is The Motley Fool, founded in 1993, more than three decades ago. [Fool.com](https://fool.com) gives general investment advice and tips on individual stocks.

Generally speaking, most of these sites offer three levels of assistance:

- ✓ A completely *free* service.
- ✓ A “*semi-premium*” service. This is often still free, but users must divulge some information about themselves, such as (at a very minimum) e-mail addresses, investment interests (stocks, bonds, mutual funds, etc.), what degree of risk they will take, etc.
- ✓ A “*fully premium*” service, which requires a monthly or annual subscription fee — sometimes a substantial one.

Our SIG generally sticks to free and semi-premium services, although some of us do subscribe to fully premium Web sites.

One useful site is Finviz, a stock screener. Exactly what does a stock screener do? Well, to answer that question, we must first go to the Home page (*Illustration 1, next page*), which gives information on stock market activity that day. (That particular Home page was from 26 February 2024.) Since you're already looking at that page, let's see what data it offers. At the top are the four major stock indices: the venerable Dow-Jones Industrial Average now over a century old, then the NASDAQ, the S&P (Standard & Poor's) 500 stock average, and the Russell 2000 stock average. The Dow-Jones Industrial Average is based on only sixty stocks, and many prefer the S&P 500 or the Russell 2000 indices because they are more broadly based.

The graphs are largely self-explanatory, as are the data at the bottom left and center. A familiarity with stock market symbols helps, though one can always click on the symbol to see what it stands for (and much else besides).

Stocks (or their symbols) are listed below the averages for various reasons. Some categories are obvious: Top Gainers (or Losers), New Highs (or Lows), or Unusual Volume. Some require explanation, for example, Insider Buying (or Selling). Federal Securities & Exchange Commission rules require anyone who is a corporate officer to file a report each time he or she buys or sells stock in that corporation. Upgrade (or Downgrade) refers to reports by analysts (usually brokerages houses, big banks, or mutual funds), who raise or lower their expectations for a particular security. At the top right of the Home page is another interesting graphic. Click anywhere on it, and you'll get a much larger, screen-filling display (*Illustration 2, next page*). Note how the graphic is divided into basic industries such as Technology (MSFT, AAPL, NVDA, and ADBE should be familiar symbols to readers of this publication, who tend to be technologically knowledgeable), Communications Services (VZ = Verizon, T = AT&T, etc.) Consumer Defensive (KO = Coca-Cola, PG = Procter & Gamble, etc.), Consumer Cyclical (AMZN and TSLA should be familiar symbols), Utilities, Basic Materials, and others. The size

(Continued on page 15)

ILLUSTRATION 1

The screenshot displays the Finviz website interface with the following sections:

- Market Index Charts:** Four candlestick charts for DOW (-62.30, -0.16%), NASDAQ (-29.57, -0.13%), S&P 500 (-19.27, -0.38%), and RUSSELL 2000 (+1.26, 0.53%) for Feb 26.
- Market Summary:** A row of indicators showing market status: Advancing (41.5%), Declining (54.3%), New High (81.9%), New Low (18.1%), Above SMA50 (58.4%), Below SMA50 (41.6%), Above SMA200 (65.0%), and Below SMA200 (35.0%).
- Top Gainers/Losers:** Two tables listing top performing and underperforming stocks with their last price, change, volume, and signal.
- Market Heatmap:** A grid of colored boxes representing various market sectors like Technology, Consumer Cyclical, and Healthcare.
- Major News:** A list of recent news items with their respective stock symbols and price changes.
- Recent Quotes:** A table showing the latest price movements for several major stocks.
- Earnings Release:** A table listing upcoming earnings reports for various companies.
- Insider Trading:** A table detailing recent insider transactions, including the name, relationship, date, transaction type, and value.
- Futures:** A table showing price changes for commodities like Crude Oil, Natural Gas, Gold, and various Treasury bonds.

ILLUSTRATION 1 (article continues next page →)

(FINVIZ: An On-Line Stock Screener—Continued from page 15)

screen pops up (Illustration 3, below). We see at the top left that ET is a LP. That stands for “Limited [Liability] Partnership.” In an ordinary partnership all partners are equally liable for the partnership’s debts. If one of your partners defaults on his debt, the debt collectors come knocking at *your* door. But if (heaven forbid!) the Microsoft Corporation defaults, individual stockholders cannot be held liable. So ET is a partnership, but with limited liability for partners. So, how does it differ from an ordinary corporation? Well, one problem is that LPs tend to report their income late, so you ought to make your appointment with your tax guy (or gal) in early March rather than late January. More important, revenue from LPs is treated as ordinary income, the same as your salary or wages. Luckily, that makes little difference for most of us. But for people in higher tax brackets, it could mean a substantial tax increase. Also, ET is classified as “Energy – Midstream – NYSE – USA.” The last two are obvious: ET is an American (*USA*) company listed on the New York Stock Exchange (*NYSE*). It’s involved in “Energy.” What does that mean? Electricity? “Midstream” gives us the answer. The oil and gas industry is divided into three stages: upstream, midstream, and downstream. *Upstream* is the actual production from oil or gas wells driven deep into the earth. *Downstream* is retail sales. When you buy fuel for your automobile at your local gasoline station, or gas for your kitchen stove and furnace at home, you’re buying from a downstream company. The term *midstream* generally denotes pipeline companies that transport oil and gas from the wells to refineries and then to the retailer. The retailer could be your local gas utility, or an oil company that will sell gasoline or motor oil to you. ET operates more than 125,000 miles of oil, gas, and carbon dioxide (CO₂) pipelines. (CO₂ is pumped back into the earth to reduce the amount in the atmosphere.) At \$14.72 (price on 26 February), ET’s dividend (\$4.29) yields almost 9%.

Now that we know how to use Finviz’s most basic function – screening stocks to meet up to four criteria (in this case, an American stock listed on the NYSE, selling for under \$50, and yielding more than 6% in dividends) – let’s look at some other data that this Web site can give us for free. Let’s go back to Finviz’s Home page and type “MSFT” into the Search box (upper

Continued on page 17

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ILLUSTRATION 3

The screenshot shows the Finviz stock screener interface. The search filters are set to: Exchange: NYSE, Dividend Yield: Over 6%, and Price: Under \$50. The results table is displayed in the 'Basic' view, showing columns for No., Ticker, Company, Sector, Industry, Country, Market Cap, P/E, Price, Change, and Volume. The stock ET is highlighted with a yellow circle and a red arrow pointing to it.

| No. | Ticker | Company | Sector | Industry | Country | Market Cap | P/E | Price | Change | Volume |
|-----|--------|---|-------------|---------------------------|---------|------------|-------|-------|--------|-----------|
| 161 | EPR | EPR Properties | Real Estate | REIT - Specialty | USA | 3,188 | 21.88 | 42.25 | -1.45% | 340,343 |
| 162 | EQLS | Simplify Market Neutral Equity Long/Short ETF | Financial | Exchange Traded Fund | USA | - | - | 24.28 | 0.77% | 8,038 |
| 163 | ERC | Allspring Multi-Sector Income Fund | Financial | Closed-End Fund - Debt | USA | 261.44M | 12.94 | 9.31 | -0.69% | 46,071 |
| 164 | ERFV | Allspring Energy and High Income Fund | Financial | Closed-End Fund - Equity | USA | 82.61M | - | 8.89 | -0.67% | 20,841 |
| 165 | ET | Energy Transfer LP | Energy | Oil & Gas Midstream | USA | 49,568 | 13.53 | 14.72 | -1.18% | 7,144,691 |
| 166 | ETB | Eaton Vance Tax-Managed Buy-Write Income Fund | Financial | Closed-End Fund - Equity | USA | 393.03M | 7.30 | 13.38 | 0.00% | 47,289 |
| 167 | ETG | Eaton Vance Tax-Advantaged Dividend Income Fund | Financial | Closed-End Fund - Equity | USA | 1,378 | - | 17.89 | -0.11% | 55,887 |
| 168 | ETJ | Eaton Vance Risk-Managed Diversified Equity Income Fund | Financial | Closed-End Fund - Equity | USA | 558.16M | 7.68 | 9.92 | 0.15% | 120,316 |
| 169 | ETO | Eaton Vance Tax-Advantaged Global Dividend Opportunities Fund | Financial | Closed-End Fund - Equity | USA | 403.97M | 41.78 | 24.65 | 0.00% | 13,009 |
| 170 | ETW | Eaton Vance Tax-Managed Buy-Write Opportunities Fund | Financial | Closed-End Fund - Equity | USA | 1,411 | 2.92 | 12.90 | -0.08% | 127,958 |
| 171 | ETV | Eaton Vance Tax-Managed Global Buy-Write Opportunities Fund | Financial | Closed-End Fund - Foreign | USA | 869.68M | 7.29 | 7.95 | -0.56% | 181,152 |
| 172 | EVF | Eaton Vance Senior Income Trust | Financial | Closed-End Fund - Debt | USA | 111.37M | 10.41 | 6.35 | -0.63% | 81,865 |
| 173 | EVG | Eaton Vance Short Duration Diversified Income Fund | Financial | Closed-End Fund - Debt | USA | 142.49M | 10.71 | 10.60 | -0.38% | 17,706 |
| 174 | EVT | Eaton Vance Tax-Advantaged Dividend Income Fund | Financial | Closed-End Fund - Equity | USA | 1.68B | - | 22.53 | -0.18% | 49,989 |
| 175 | EVV | Eaton Vance Limited Duration Income Fund | Financial | Closed-End Fund - Debt | USA | 1,148 | 9.85 | 9.85 | -1.06% | 155,539 |
| 176 | EWS | iShares MSCI Singapore ETF | Financial | Exchange Traded Fund | USA | - | - | 17.96 | -0.95% | 277,511 |
| 177 | EXO | Eaton Vance Tax-Managed Global Diversified Equity Income Fund | Financial | Closed-End Fund - Foreign | USA | 2,428 | 17.20 | 7.91 | -0.50% | 372,504 |
| 178 | FAM | First Trust/Abrn Global Opportunity Income Fund | Financial | Closed-End Fund - Debt | USA | 65.32M | 8.07 | 9.44 | 0.15% | 115,920 |
| 179 | FAX | Abrn Asia-Pacific Income Fund Inc | Financial | Closed-End Fund - Debt | USA | 656.20M | 8.35 | 2.65 | -0.78% | 339,465 |
| 180 | FBRF | Franklin BSP Realty Trust Inc. | Real Estate | REIT - Mortgage | USA | 1,058 | 8.85 | 12.67 | -0.94% | 110,461 |

(FINVIZ: A Stock Screener—Continued from page 16)

left). MSFT is a ticker symbol familiar to all DATABUS readers: the Microsoft Corporation, which, together with Apple, dominates computer software. (Apple Computers, of course, is also a major player in hardware with its PCs, laptops, iPhones, and iPads. Although Microsoft manufactures some hardware — for example, its Surface tablets/laptops and Xbox gaming consoles — it is not as much involved as Apple.) Another full screen appears, the upper half of which is reproduced as *Illustration 4*, below. ↓



At the top is a daily price chart for the last nine months. This time frame can be changed by clicking “Intraday,” “Weekly,” or “Monthly” at the top of the chart. Below the chart are all sorts of great data, beginning with what indices include MSFT. DJIA is the venerable Dow-Jones Industrial Average. NDX is the NASDAQ 100 Average and S&P 500 is the Standard & Poor’s 500 Stock Average. “Going down the list, “Market Cap” is the value of all Microsoft common stock, “Sales,” “Book [Value per]/sh[are],” “Cash/sh[are]” are all obvious. We have no space to go over each entry, but at the top of the second column, “P/E” is Price-Earning Ratio. If a stock earns \$1 per share in profits and its price is \$10, it has a P/E Ratio of 10. MSFT’s P/E, at almost 37, is considerably higher because investors expect earnings to grow at a high rate. An indicator I like to look at is the “Quick Ratio,” further down in the second column. This shows how much cash (or assets that can quickly be converted into cash, such as U.S. Government Bonds) the company has on hand to pay everyday debts, such as salaries, rental for offices and factories,

(Continued on page 18)

utility bills, etc. MSFT has a healthy quick ratio of \$1.20 for every \$1 of bills that must be paid. The bottom half of the MSFT screen is illustrated below. (Illustration 5)↓ It merely con-

| Date | Action | Analyst | Rating Change | Price Target Change |
|-----------|----------------|-------------------|----------------------|---------------------|
| Jan-18-24 | Upgrade | Evans BNP Paribas | Neutral → Outperform | \$471 |
| Dec-13-23 | Initiated | Truist | Buy | |
| Dec-05-23 | Initiated | China Renaissance | Buy | \$486 |
| Oct-26-23 | Upgrade | HSBC Securities | Hold → Buy | \$347 → \$413 |
| Oct-17-23 | Initiated | Loop Capital | Buy | \$425 |
| Sep-25-23 | Upgrade | Guggenheim | Sell → Neutral | |
| Sep-15-23 | Initiated | HSBC Securities | Hold | \$347 |
| Jul-24-23 | Reiterated | Raymond James | Outperform | \$320 → \$400 |
| Jul-24-23 | Reiterated | Goldman | Buy | \$350 → \$400 |
| Jul-21-23 | Reiterated | Goldman | Buy | \$350 → \$400 |

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Today 11:00AM What Nvidia, AMD, and Intel Stock Investors Should Know About the Latest Semiconductor Updates (Motley Fool)

10:40AM Magnificent Seven Stocks To Buy And Watch: Nvidia Stock Slides (Investor's Business Daily)

09:56AM Tech News Now: Microsoft's new deal, Zoom's stock surge, and more (TheStreet)

09:27AM Microsoft Partners With an OpenAI Rival, and Other Technology News Today (Barrons.com)

09:23AM Microsoft made a \$16 million investment in Mistral AI (TechCrunch)

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09:05AM Big Techs Roaring Profit Machine Eases Fears of Rally Reversal (Bloomberg)

07:29AM Are These 3 Tech Stocks the Market's Best Kept Secrets in 2024? (Motley Fool)

07:15AM History Says Nvidia's Stock Will Fall for 1 Simple Reason (Motley Fool)

06:45AM Chip Wars: Will AMD or Broadcom Stock Make You Richer? (Motley Fool)

06:37AM Microsoft's new deal with France's Mistral AI is under scrutiny from the European Union (Associated Press Finance)

06:21AM Mistral AI releases new model to rival GPT-4 and its own chat assistant (TechCrunch)

06:00AM Missed Out on Microsoft? This Tiny Cloud Stock Could Deliver Even Bigger Gains. (Motley Fool)

05:29AM 1 Overlooked Artificial Intelligence (AI) Stock Taking On Amazon, Microsoft, and Google (Motley Fool)

05:21AM Microsoft's deal with OpenAI's French rival Mistral faces EU scrutiny (Reuters)

05:18AM UPDATE 1-Microsoft's deal with Mistral AI faces EU scrutiny (Reuters)

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04:53AM Microsoft's Mistral deal on EU antitrust regulators' radar (Reuters)

04:30AM Microsoft's Mistral AI deal should be further investigated - EU lawmaker says (Reuters)

04:26AM MWC: Microsoft pitches 'AI access principles' to offset OpenAI competition concerns (TechCrunch)

12:55AM Intel's 1.8nm chip revelation and Microsoft deal casts shadow over Samsung's semiconductor ambitions (DigiTimes)

Feb-26-24 09:18PM Elon Musk tweeted at Microsoft's CEO for some basic tech support (Quartz)

06:51PM Microsoft announces 'AI access principles' to offset OpenAI competition concerns (TechCrunch)

06:04PM Microsoft announces deal with Mistral, expanding AI portfolio (Yahoo Finance Video)

05:42PM Hedge Funds Are Investing Heavily In These Blue Chip Stocks Should You Follow Suit? (Benzinga)

04:55PM Why SoundHound AI Stock Is Skyrocketing Again Today (Motley Fool)

03:36PM Today's Dow Jones Stocks To Watch: Salesforce Jumps, Apple Stock Slides (Investor's Business Daily)


03:13PM 25 Best Free Tech Newsletters to Subscribe to in 2024 (Insider Monkey)


02:48PM Exclusive: Google steps up Microsoft criticism, warns of rival's monopoly in cloud (Reuters)


02:38PM Microsoft, Amazon, Nvidia, Arm, and Others Join Forces To Form AI-RAN Alliance (Investopedia)


02:03PM Bill Gates Considers Himself To Be A 'Very Nice' Boss Compared To Elon Musk And Steve Jobs But His Microsoft Co-Founder Described Working With H... (Benzinga)


ILLUSTRATION 5


 **blancoBull** Feb. 27 at 12:37 PM
\$MSFT \$SPY That's what she said !!! • Reply

 **SolidTrades** Feb. 27 at 12:37 PM
\$SPY \$MSFT no juice left • Reply

 **frogoracletading** Feb. 27 at 12:27 PM
\$MSFT PUTS coming up on 70% gains so far! • Reply

 **letsmakehuge** Feb. 27 at 12:19 PM
\$CVNA why waste time in \$MSFT \$AAPL, cvna is best 🤔👍👍 • Reply

 **isl71** Feb. 27 at 12:16 PM
\$AABB \$NVDA \$MSFT \$GOLD \$BTC.X Charts in the beginning BOOMTOWN correction mode! • Reply

 **DeMark173** Feb. 27 at 12:14 PM

sists of a digest of recent opinions by stock analysts. For example, MSFT has been upgraded by three analysts, Initiated by three others, while three others have reiterated their previous opinions on the company. Below that at links to recent news items about MSFT. Some of these appear to be frivolous, for example, the last one (bottom of illustration) is titled “Bill Gates Considers Himself to be a ‘Very Nice’ Boss Compared to Elon Musk [head of the Tesla Corporation] and Steve Jobs [now-deceased head of Apple Computers].” Mr. Gates, of course, has retired as Boss of MSFT, and his opinion of himself is now irrelevant. Still, the list is comprehensive.

Finviz is one of many digital aids to investment, and its free service provides independent investors with a wealth of data on which to base their decisions.

... TDB

THE DATABUS Needs Articles!

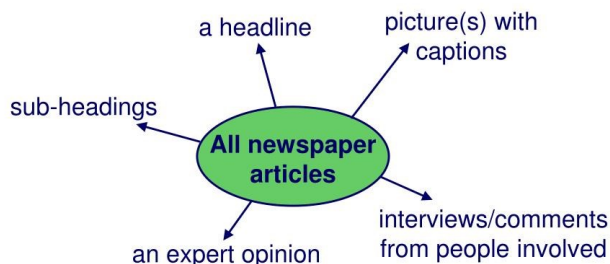
WE NEED ARTICLES from DMA members. THE DATABUS cannot go on indefinitely reprinting material from other computer clubs' newsletters. We must have *original* stuff to survive.

Please consider sending something relevant to the Editor. (See "Submissions" on the bottom right of page 2 for instructions on how to submit.)

What does an article need?



All articles have common features like:



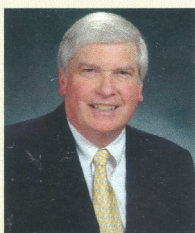
Add any other features you can think of to the brainstorm above.



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ABOUT THE DAYTON MICROCOMPUTER ASSOCIATION, INC. (DMA)

By Peter HESS, DMA President, 2018-2020

ALMOST FIFTY 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 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 genæology, 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 or Associate Members. (An Associate Member is one 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 a variety of both product and service discounts are available to all DMA members.

... TDB

Spring Cleaning?

DO YOU have an “old friend,” a loved example of technological equipment needing a new home?

Would you like to tell us about how you benefited through the use of that product?

The DMA COMPUTER MUSEUM has already received many donations from some early DMA members, and we are looking for more. As well as needing your old friend, we want to know about how you used the equipment. We are not afraid of having several copies of the same brand and model number of legacy equipment. Our goal is to have quality



exhibit space filled with apparatus that works and can be part of many interactive displays.

We are also looking for software and computer product branded merchandise.

While the DMA Computer Museum is not yet ready to have an open house to display our many exhibits, we do have a dry, climate-controlled, secure workshop where we are storing recent donations. The present DMA Computer Museum outreach, which the DMA has offered for over forty years, will continue while we look for a building to house our museum exhibits, workshop, storage, and classroom space.

If you have something which you feel can help the DMA Computer Museum to serve the computing community better, please complete the form at <https://www.dma1.org/museum/> and tell us what you would like to donate to the DMA Computer Museum.

- ✓ Please tell friends or family members of the intended plans to help the DMA to serve the computing community better.
- ✓ Please add the DMA to your will or to other planned giving arrangement.

If the you wish, we would be happy to give you credit for your donation — at the very least on signage which accompanies the equipment exhibit. We want to know your computing story.

The DMA Computer Museum is specifically looking for this equipment, as well as much more:

- ◆ LexisNexis UBIQ
- ◆ IBM AT

One of our museum curators will contact you about your donation.

If you aren't already...become a part of computing history!

—Peter Hess,

on behalf of the DMA Computer Museum Committee

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 | \$ <u>0.00</u> |
| One-time setup fee for Shell account | \$10.00 | \$ _____ |
| Total | | \$ _____ |

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