



News from

## The GLORIOUS SOCIETY OF THE WORMHOLE

October 2024

### Hello Worms

I hope all of our Wormhole family came through Helene in good shape. If you pray there are a lot of people that need to be remembered in your prayers.

Before the meeting the radio will be on for information about and directions to the meeting but that will discontinue when the meeting starts. We will continue with Zoom when convenient but if the computer is being used Zoom cannot operate and the 40 minute limit does make it awkward at times. The Zoom information is the same as all the other meetings and is listed towards the end of this newsletter.

The Great Shakeout 2024 is October 17. No earthquakes in Florida? You would be surprised. In any case it is an international Earthquake awareness and exercise day. If you are a MARS, SHARES, BAPTIST EMERGENCY RELIEF or other national organization they are most likely participating in some manner somewhere. I usually participate with Winlink messages to several non-Florida organizations. For info: <https://www.shakeout.org/southeast/index.html>

The American Victory Ship Haunted Ship is underway although this past Friday/Saturday opening was cancelled due to Helene. Every Friday and Saturday night in October plus two Thursdays. Those interested can go to <https://www.eventbrite.com/e/undead-in-the-water-tickets-974295733767?aff=oddtcreator> for all the information and reservations. If you go I will be at the bottom of the gangway letting you on and no I don't go on that ship at night!

In the meeting we will have donuts, water and soft drinks (probably only root beer). Bring your drink of choice and lunch if you want. We will not be cooking but we have access to the Chamber of Commerce kitchen which has a microwave and a toaster oven so you can heat up/cook what you bring.

**\* NEW ARRL PARTNERSHIP WILL BENEFIT MEMBERS 65+\***

ARRL LETTER September 20, 2024

Great news! ARRL® The National Association for Amateur Radio® has partnered with Grouper, an organization that shares our commitment to fostering an engaged community. Grouper provides benefits to eligible ARRL members aged 65+ for staying active in their communities.

Maintaining social connections through group activities -- like ARRL Affiliated Club meetings and ARRL Contests -- has proven health benefits, according to the U.S. Surgeon General. These connections are especially important for older adults, who have above-average risks of social isolation.

Here's what Grouper offers:

- Easy eligibility check with two simple questions and no personal information needed.
- Eligible? You'll receive a \$50 payment from Grouper to support your social activity.
- For every three months of activity, Grouper will also send you \$20 wellness payments.

Redeem your benefit here. <https://app.hellogrouper.com/p/arrl>

You can use your Grouper benefits to help cover the cost of any group activities that keep you socially connected and healthy. From getting on the air for a roundtable with friends, to portable operating, attending conventions and local club meetings, ARRL and amateur radio activities keep our members socially connected and promote a healthier, more fulfilling life. We know you value community and camaraderie. Let Grouper support those values. And don't worry -- Grouper isn't a health insurance company and will never try to sell you anything.

To check your eligibility for Grouper's benefits, simply visit their website and sign up.

Have Questions?

Call Grouper at (833) 445-2400 or email [info@hellogrouper.com](mailto:info@hellogrouper.com).

editors Note: I signed up and it works. This is the same as the Medicare payments for going to the gym, Bill

## **\* THE SOLAR SAIL IS CIRCLING EARTH \***

spaceweather.com

At the end of August, NASA unfurled a solar sail in Earth orbit--the Advanced Composite Solar Sail System (ACS3). It is wowing sky watchers with flashes as bright as the brightest stars. On Sept. 5th, Canadian satellite tracker Kevin Fetter photographed the sail passing almost directly in front of Vega:

"It got bright for a short time as it was passing by the star," says Fetter. "Briefly it was just as bright as Vega, the 5th brightest star in the night sky."

NASA launched ACS3 in April 2024, but didn't deploy it until last week. With its lightweight reflective sail fully extended on Aug. 29th, it is now about half the size of a tennis court. Solar sails employ the pressure of sunlight for propulsion, eliminating the need for conventional rocket propellant.

Not everyone will see it shining as brightly as Fetter did. The sail is currently tumbling, so it presents variable reflections to different observers. It was dimmer but still visible on Sept. 3rd when Bryan Murahashi saw it cut through the star fields of Cygnus:

"I took this picture from San Jose, California, proving it can be seen even from urban areas," he says.

The tumbling is actually a feature, not a bug. NASA deliberately unfurled the sail without attitude control. Mission controllers want to learn how a slowly tumbling sail behaves. Later, they will turn on attitude control for further testing.

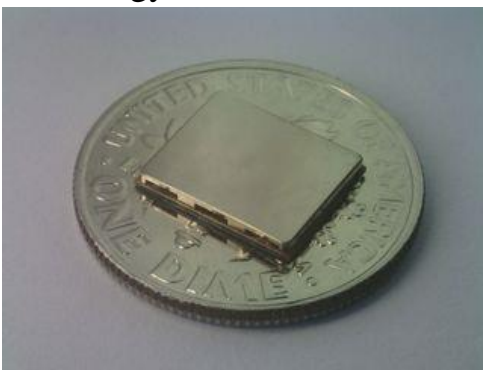
Would *you* like to see the solar sail? Local flyby predictions may be found on [Heavens Above](#). Tip: Scroll down the website and look for "ACS3."

NASA has a website for the ACS3 solar sail at <https://www.nasa.gov/mission/acs3/>

## **\* SOLID STATE MICRO FAN-ON-A-CHIP \***

tom'sHARDWARE By Jeff Butts

The leading provider of solid-state micro-speaker technology, xMEMS Labs, has announced the first all-silicon active micro-cooling fan-on-a-chip for use with mobile devices. The innovative technology will allow manufacturers to integrate active cooling into their smartphones, tablets, and other advanced mobile devices without sacrificing size.



Since manufacturers are constantly trying to reduce the size of our mobile devices, space inside the case is always at a premium. On the other hand, thermal management is becoming more critical with the advent of running processor-intensive artificial intelligence (AI) apps on-device. Gaming and computational photography needs have also become very

GPU-intensive, thus leading to even more heat.

Without a solution for active cooling in these devices, hardware and software designers face

limitations in what they can allow smartphones and similar devices to do. With the xMEMS Labs' new XMC-2400 micro-cooling chip, they have a potential solution.

The XMC-2400 measures 9.26mm by 7.6mm and is just 1.08mm thick. It weighs less than 150 milligrams but can move up to 39 cubic centimeters of air per second with 1,000Pa of back pressure. The fan is inaudible and draws no more than an estimated 30mW of power.

xMEMS based the technology on the same fabrication process it uses for its Cypress full-range micro speaker for ANC in-ear wireless earbuds, like the Creative Aurvana Ace that debuted in December 2023.

Joseph Jiang, co-founder and CEO of xMEMS, says the innovation “comes at a critical time in mobile computing.” Offering a solution that can provide active cooling to the smallest handheld computing devices will help solve the heat problem generated by processor-intensive AI apps and games on ultra-mobile devices, he says.

In addition to smartphones, tablets, and laptops, xMEMS says the XMC-2400 could be used in external SSDs, wireless chargers, and virtual- and mixed-reality goggles. xMEMS plans live events in Shenzhen and Taipei beginning in September to demonstrate XMC-2400 to its customers and partners. The company plans to start production in the second quarter of 2025 and has several customers already committed to the device.

## **\* CONSUMER GROUPS ASK FTC TO STOP BRICKING\***

The Verge by Gaby Del Valle

A coalition of consumer protection and anti-waste groups wants the Federal Trade Commission to go after “software tethering,” or the practice of tying hardware’s functionality to external software — which often renders products unusable after software updates stop.

The groups, including Consumer Reports, iFixIt, US PIRG, the Electronic Frontier Foundation, the Center for Economic Justice, and Californians Against Waste, have signed onto a letter asking the FTC to “create clear guidance” on software tethering. “While the FTC has taken some limited actions with regard to this issue, a lack of clarity and enforcement has led to an ecosystem where consumers cannot reliably count on the connected products they buy to last,” the letter reads.

The letter calls out a number of products whose functionalities have been limited — or eliminated altogether — by this practice. In some cases, as was the case with the \$1,695 Snoo bassinet, customers “discovered that some of the features that were originally advertised with

the product” would soon be locked behind a monthly subscription service. In other instances, like the Juicero juicer, the products became unsupported and effectively unusable after the startups behind them shut down.

“Manufacturers increasingly use software to lock us into only using our tech in ways that just-so-happen to generate the most profits for them,” Lucas Rockett Gutterman, Designed to Last director with US PIRG, said in an emailed statement. “If we want to stop the tech industry from pushing us into replacing products that still work, we need to stand up for consumers’ right to get what we’ve paid for in the age of connected devices.”

The authors also note that even major, established companies like Google kill certain products — and their support — leaving customers with waste, and note that smart home products like major appliances are particularly vulnerable to this. “With larger products, uncertainty about when these products might fail represents the loss of a substantial investment and the creation of literal tons of waste,” the letter reads. A forthcoming Consumer Reports study cited in the letter found that of 22 major smart appliance makers, only three provided a set time period over which they’d provide cybersecurity and software updates. Four others said they’d provide support and firmware updates for the products over an unspecified time period.

“We expect the problem to get worse over time as more companies build ‘smart’ products that connect to the internet or are app controlled,” the letter reads. To remedy this, the groups are proposing the FTC:

1. require companies to guarantee minimum support time for products, and to clearly state this time on product packaging
2. require companies to ensure that products’ core functionality will work even if the internet connection fails or if the corresponding software stops being updated
3. encourage tools and methods to enable reuse if and when software support ends
4. protect “adversarial interoperability,” or the practice of allowing competitors or third parties to modify old devices
5. educate manufacturers on how to build longevity into product design

“Consumers are already being burned by software obsolescence,” the letter states, “and absent guidance and enforcement, we are seeing companies roll the dice on selling connected devices that they have no intention of standing behind.”

**\*MICROSOFT SAYS RECALL CAN BE TURNED OFF\***

*The Verge* by Tom Warren

The controversial Recall AI feature, which creates screenshots of mostly everything you see or do on a computer, was originally supposed to debut with [Copilot Plus PCs](#) in June. Microsoft was [forced to delay the feature](#) after security researchers raised concerns. Microsoft says it remains on track to preview Recall with Windows Insiders [on Copilot Plus PCs in October](#), after the company has had more time to make major changes to Recall.

Security researchers initially found that the Recall database that stores the snapshots of your computer every few seconds wasn't encrypted, and malware could have potentially accessed the Recall feature. Microsoft is now making the AI-powered feature an opt-in experience instead of on by default, encrypting the database, and authenticating through Windows Hello.

We did ask Microsoft whether it will allow Windows users to fully uninstall Recall, as this appearance in the Windows features list suggests, but the company only confirmed this was just "incorrectly listed" for now. It's possible that Microsoft may need to add a Recall uninstall option to EU copies of Windows 11 to comply with the European Commission's Digital Markets Act. Microsoft has already had to [add an uninstall option for Edge](#) in European Economic Area (EEA) countries, alongside the ability to remove the Bing-powered web search in the Start menu.

While the latest update to Windows 11 makes it look like the upcoming Recall feature can be easily removed by users, Microsoft tells us it's just a bug and a fix is coming. [Deskmodder spotted](#) the change last week in the latest 24H2 version of Windows 11, with [KB5041865](#) seemingly delivering the ability to uninstall Recall from the Windows Features section.

"We are aware of an issue where Recall is incorrectly listed as an option under the 'Turn Windows features on or off' dialog in Control Panel," says Windows senior product manager Brandon LeBlanc in a statement to *The Verge*. "This will be fixed in an upcoming update."

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## **\* GOOGLE BRINGS BACK ARCHIVED PAGE LINKS \***

*INFOPACKETS* by John Lister

Google is to make it easier to find copies of pages that are no longer available on websites. The change comes several months after Google removed its own cache of web pages.

Users will instead be able to follow a link to the archived copy at the Internet Archive's "wayback machine."

Before this year, many Google search results included a link to Google's own cached copies of web pages. These were the copies that Google made when scanning a web page for content and links to help decide when and where it should appear in search rankings.

The cached copy available in the search results would usually be the most recent copy Google had of the page while it was still online. That was hugely useful if the web page was no longer available, for example if it was from a website that had closed down or deleted old content. It was also useful if a website was overloaded and the page temporarily inaccessible.

### **Cache Links 'Unnecessary'**

Earlier this year Google ditched the feature, saying it was no longer necessary because websites were now more dependable. At the time, Google's Danny Sullivan said he'd like to add links to the Internet Archive in their place, something that's now happening.

The Internet Archive aims to be a historical record of online content including web pages, media files and software. The idea is to be a permanent record for historians and researchers in the same way as some libraries try to keep physical copies of books and printed documents.

Among the Internet Archive's features is the Wayback Machine, which lets users either search for a site or type in a URL. They can then look back through a calendar to get links to archived copies of the web page from different dates over the years.

### **Bonus Results Feature**

Google search results will soon include a link to the relevant Wayback Machine page. It will be accessible in the search results by clicking or tapping on the three vertical dots by the side of the website address and then looking through the "About this result" section for the "More About This Page" option. (Source: searchengineland.com)

Not all pages on the Internet Archive will be accessible this way, though, thanks to Google having a slightly more cautious legal approach. It notes "the link to archived webpages will not be available in instances where the rights holder has opted out of having their site archived or if the webpage violates content policies." (Source: archive.org)

## **\*FORD PATENTS EAVESDROPPING ON PASSENGERS\***

Malwarebytes by Pieter Arntz

Car manufacturer Ford Motor Company has filed a [patent application](#) for an in-vehicle advertisement presentation system based on information derived from several trip and driver characteristics. Among those characteristics—human conversations.

In the abstract of the patent application publication Ford writes:

“An example method includes determining vehicle information for a trip, the vehicle information including any one or more of a current vehicle location, a vehicle speed, a drive mode, and/or traffic information, the user information including any one or more of a route prediction, a speed prediction for the trip, and/or a destination, determining user preferences for advertisements from any one or more of audio signals within the vehicle and/or historical user data, selecting a number of the advertisements to present to the user during the trip, and providing the advertisements to the user during the trip through a human-machine interface (HMI) of the vehicle.” (ED Note: read “audio signals” as voices)

Further on it details that “the controller may monitor user dialogue to detect when individuals are in a conversation.”

Based on this info, the controller can decrease or increase the number of advertisements. And “the conversations can be parsed for keywords or phrases that may indicate where the occupants are travelling to.”



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## **\*CLUB MEETING and ZOOM\***

The meeting time is 1100 on Saturday morning at the Lurie Civic Building on the St Petersburg College campus in Seminole. Turn west at the light at 113<sup>th</sup> St N and about 92<sup>nd</sup> Ave N. It's the first building on the north side. Here is a link to a Google map: [Google Maps](#). There are a few parking spots in front the Chamber building but double parking is fine since we will be able to find the owner to move his vehicle if necessary. Alternately if you go another 100 yards past you can park in the college parking lot. We cannot run Zoom and a computer presentation at the same time. Below is the Zoom information, same as last month. The ZOOM meeting is limited to 40 minutes so I will start it early and restart it to cover the whole meeting.

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Topic: Bill Williams' Zoom Meeting

Time: This is a recurring meeting Meet anytime

Join Zoom Meeting

<https://zoom.us/j/2737114584?pwd=d1BETHVOQ21vWWZXZ0lYQ0FIWWtldz09>

Meeting ID: 273 711 4584

Passcode: worm

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## **\*CLUB NETS\***

Check in on the club net Thursdays at 1930 and 2000 (or at the end of the 2M net). 2M at 146.850 – with a tone of 146.2. Our 6M net runs after our regular 2M net on 53.150 – 1MHz offset 146.2 tone.

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## **\*LOCAL NETS\***

### **MONDAY**

1830 147.060+ no tone	St Pete ARC daily net	St Petersburg
1900 144.210 USB	CARS, vertical polarization	Clearwater
1900 147.135 +146.2	Zephyrhills ARC	Zephyrhills
2000 147.165+ 136.5	Brandon ARS	from Brandon
2000 50.135	Pinellas ARK	Pinellas County
2030 NI4CE system	EAGLE Net, NTS traffic net,	NI4CE system
2030 145.450	Pinellas ARK	Pinellas County

### **TUESDAY**

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 50.200 USB	6M net	Brandon ARS
1900 28.365 USB	10M Net	Clearwater
1900 NI4CE system	WCF Section VHF ARES	NI4CE system
1930 145.170 & 442.4 both pl 156.7	Pinellas ACS net	Clearwater
1930 444.900 +141.3	Sheriff's Tactical ARC	Tampa
2000 NI4CE system	WCF Skywarn net	NI4CE system
2000 147.105+ 146.2	Tampa ARC net	from Tampa
2000 28.365 USB	simplex	Brandon ARS
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 28.465 USB	10/10 net	from Orlando
1900 146.490 simplex	3 <sup>RD</sup> Tuesday monthly, Hillsborough Co ARES simplex Net	

### **WEDNESDAY**

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 147.165 + 136.5	Humpday Net	from Brandon

1930 52.020 simplex	Suncoast 6'ers	from St Petersburg
1930 NI4CE system	WCF Section Digital Info Ne	NI4CE system
2000 147.105 146.2	Greater Tampa CERT net	from Tampa
2000 146.97- 146.2	Clearwater ARS	from Clearwater
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 NI4CE system	Tampa Bay Traders Net	non-affiliated
0000-2359 HF Winlink	Winlink Wednesday Net <a href="https://winlinkwednesday.net/reminder.html">https://winlinkwednesday.net/reminder.html</a>	

### **THURSDAY**

1800 146.52 simplex	Hillsborough ARES/RACES	North Tampa
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 444.750 +146.2	Fusion net	from Tampa
1915 224.660- no tone	St Pete ARC	from St Petersburg
1930 146.6385 -127.3	Lakeland ARC	from Lakeland
1930 440.0 +162.2	Hillsborough ARES/RACES	from Tampa
1930 146.850- 146.2	Wormhole	from Pinellas Co
2000 53.150 -1MHz 146.2	Wormhole	from Pinellas Co
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system

### **FRIDAY**

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 3.830 LSB	Brandon 80M Net	from Brandon
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system

### **SATURDAY**

0730 3.940 (7.281 Alt.)+/- QRM	WCF Section HF Net	from WCF
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system

## SUNDAY

0800 3.933	Florida Traders Net	non-affiliated
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1930 NI4CE system	WCF Section Net	NI4CE system
2000 147.550 simplex	550 Simplex Net	Pinellas County
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 144.210 USB	Clearwater ARS	vertical orientation

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### **\*FOR SALE / WANTED\***

Anyone having something for sale or who might be looking for an item let me know. I will not print phone numbers or email addresses unless specifically told to since this newsletter might end up on the web. The exception is when I get the information off the web. If you are a member of the Wormhole then you can ask club members for the persons contact information. If you are not a member ... why not? OK, if you are not a member you can contact me at the email address at the end of this newsletter, I will give you the information to contact the person involved. If you want to see anything here and you are coming to the meeting let the seller know, maybe he can bring it.

#### FOR SALE,

See Bill AG4QX for the following: make me an offer.

- \*ICOM IC-W32A , 2m and 440 HT, AA battery pack, no antenna \$30
- \*ICOM IC-T7H, 2m or 440 HT, AA battery pack, no antenna \$15
- \*Heathkit HD-1215 Phone patch \$15 looks ok
- \*Drake WV-5 wattmeter \$90 looks ok
- \*Cushcraft A4S, 10/15/20 4 element beam \$250
- \*Cushcraft AV-12AVQ, 10/15/20 vertical \$125
- \*Cushcraft A50-#S, 6m beam \$125
- \*Cushcraft A-#WS, 17/12 WARC beam \$250
- \*15000 V neon sign transformer currently used for Jacobs ladder \$30

From Ed: ICOM IC-737, 10m-160m + WARC TX, 0.030 – 30mHz RX, built in tuner, includes all cables and interfaces for digital, works fine, was replaced with an IC-7300, \$200 Contact Ed at [arctic.eddie@verizon.net](mailto:arctic.eddie@verizon.net)

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## **\*HAMFESTS\***

**2024**

**October 19**

Bradenton, Marcifest 2024, Bible Baptist Church of Bradenton  
2113 Morgan Johnson Rd., talkin 146.850 -100.0, admission \$5, tailgate \$5,  
contact Michael Ryan at 941-376-6453, flyer here:

<http://manatee.startlogic.com/WP/wp-content/uploads/2023/09/MARCIFEST-2023-1.pdf>

**November 2**

Dade City, East Pasco ARS Fall Hamfest, flyer at

<https://eparsonline.org/2024/wp-content/uploads/2024/08/EPARS-2024-HAMFEST-november.jpg>, admission \$5, tailgate \$5, indoor table \$10, talkin  
146.880 146.2 analog or C4FM

**November 2**

Apopka, Bahia Shriner's Tailgate, Bahia Shrine Center, 3101 E. Highway  
436, no talkin, no hamfest on website, Den Ardinger , KT3S, 164 Sheridan  
Ave Longwood, FL 32750 or call 407-332-0405 or Email:  
[dba327@hotmail.com](mailto:dba327@hotmail.com)

**November 9**

**Pinellas Park, SPARCFest, admission FREE, tailgate free, Freedom  
Lake Park, 9990 46th St N, Southeast corner of US 19 and 49th Street,  
Talk-in on 147.060+ no tone. VE testing at 0900. Website has not been  
updated yet.**

**December 7**

Ocala, Silver Springs Radio Club Hamfest, First Christian Church  
1908 E. Fort King St, Talk-In: 146.610 -123.0, admission \$10, tailgate  
including one admission \$20, Contact: Elbert Wilkinson , KQ3K, 940 NE  
50th St. Ocala, FL 34470, 352-843-0509 or [kq3k@outlook.com](mailto:kq3k@outlook.com)

**December 13 & 14**

**Plant City, the 2024 Tampa Bay Hamfest and West Central Florida  
Section Convention**, Friday and Saturday, at the Strawberry Festival  
grounds, admission \$13, 16x40 ft tailgate space \$10, electric \$10, for  
information contact Bill Williams AG4QX, [chairman@fgcarc.org](mailto:chairman@fgcarc.org) or go to  
<http://www.tampabayhamfest.org> or you can just ask me, Jim or Dee at a  
meeting ;-)

**January ??**

**TARCFest** TARC Clubhouse, 22<sup>nd</sup> St at the river, 8AM-1PM, \$5 entry  
including tailgate, a few inside tables must be reserved in advance, talkin on  
147.105 +146.2, license testing after, more info at <http://hamclub.org/>  
schedule not announced yet.

**February 7-9** **Orlando Hamcation**, Central Florida Fairgrounds, 4603 West Colonial Drive, Tickets \$20 in advance, \$25 after Dec 21 and at the door. Talk-in 146.760 - PL 103.5 analog or Fusion. Also D-Star is on 146.820 -, all the information at [www.hamcation.com](http://www.hamcation.com) or call 407-841-0874. There is also an AM low power Information Station on AM 610.

**April ??** **TARCFest** TARC Clubhouse, 22<sup>nd</sup> St at the river, 8AM-1PM, \$5 entry including tailgate, a few inside tables must be reserved in advance, talkin on 147.105 +146.2, license testing after, more info at <http://hamclub.org/schedule> not announced yet.

**May 16-18** **Xenia, Ohio, Dayton Hamfest**, tickets \$30 at the door, tailgate \$30, 10x10 booth \$705

**May 24** **WormFest 2025**, Pinellas Park, admission FREE, tailgate free, Freedom Lake Park, 9990 46th St N, southeast corner of US 19 and 49<sup>th</sup> Street, 33782. Park opens at sunrise for vendor setup, hamfest starts at 0800. Talk-in on 146.850 – 146.2. All FREE! For a map and directions see <http://www.TheWormholeSociety.org> .



Fourth full weekend January	Winter Field Day <a href="https://www.winterfieldday.com/">https://www.winterfieldday.com/</a>
Late January	Gasparilla celebration
Late February	West Central Florida Tech Conference <a href="http://arriwcf.org/wcf-special-events/wcftechconference/">http://arriwcf.org/wcf-special-events/wcftechconference/</a>
March/April	MS Walks
April	MS bike now named Suncoast Challenge <a href="http://www.citrustour.org/register.php">http://www.citrustour.org/register.php</a>
March/April	Mass Casualty Exercises
Late April	Southeastern VHF Society Conference, <a href="http://www.svhfs.org">http://www.svhfs.org</a>
Late April	Florida QSO Party



Mid May	March For Babies (was March of Dimes) <a href="https://www.marchforbabies.org/Registration/Events">https://www.marchforbabies.org/Registration/Events</a>
Mid May	Annual Armed Forces Crossband Test
Mid-May	Florida Hurricane Exercise
Late May	Dayton Hamfest
May, Memorial Day Weekend	Wormfest
First weekend in June	Museum Ships on the Air
Fourth weekend in June	Field Day <a href="http://www.arrl.org/contests/announcements/fd/">http://www.arrl.org/contests/announcements/fd/</a>
Third weekend in August	International Lighthouse/Lightship Week <a href="https://illw.net/">https://illw.net/</a>
September	Run for All Children's
Mid October	The Great Shakeout <a href="https://www.shakeout.org">https://www.shakeout.org</a>
October, 3 <sup>rd</sup> weekend	JOTA, Scout Jamboree-on-the-AIR (around 14.280MHz)
Early December	ALS bike ride in Walsingham Park
December, Second weekend	Tampa Bay Hamfest <a href="http://www.fgcarc.org/">http://www.fgcarc.org/</a>

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### **\*YOUR WORMHOLE OFFICERS\***

Bill AG4QX is President and editor of this newsletter, the Vice President position is open, Treasurer is Jim KD4MZL, Paul KA4IOX is the Secretary, Dee N4GD is the Repeater Trustee and Mike KV0OOM is our webmaster.

### **\*YOUR WORMHOLE REPEATERS\***

53.150 -1Mz PL 146.2

442.625 +5Mz PL 146.2

146.850 - 600Kz PL 146.2

The Wormhole 2M and 440 repeaters are both now dual mode Yaesu DR-2X. FM analog as always and Yaesu Fusion, a C4FM digital mode.

The Wormhole website is at: <http://www.TheWormholeSociety.org>.

West Central Florida Section website: <http://www.arrlwcfc.org/>.

The ARRL website is at: <http://www.arrl.org/>

This newsletter is written for The Glorious Society of the Wormhole, an ARRL affiliated amateur radio club located around the Seminole section of Pinellas County Florida. Anyone wishing to be added or removed from The Glorious Society of the Wormhole mailings please write to me at the address below and thy will be done.

73,

Bill Williams

AG4QX

[ag4qx AT arrl DOT net](mailto:ag4qx@arrl.net)