

News from



The GLORIOUS SOCIETY OF THE WORMHOLE

November 2019

Hello Worms

Hamfest season is truly upon us, three hamfests in the next five weeks including the Tampa Bay Hamfest and Section Convention in Plant City.

Those who ordered shirts, they were in for last month's meeting. If you did not get yours yet see me at the meeting to pay for and pick it up. I am looking for another embroider to do shirts. Our current guy raised prices by \$4 a shirt. So if you know a guy let me know. I guess I should not complain, the Hillsborough County ARES/RACES shirts are \$50, almost double.

A reminder: After January 2020 Windows 7 will not receive security updates. No more patches to fill the holes they keep finding.

Talk-in is on the Wormhole repeater system. For those coming to the meeting who cannot hit the repeater we will also monitor the Honeywell club repeater on 443.050 +141.3.

BRING A FOLDING CHAIR FOR THE MEETING IF YOU HAVE ONE. We are doing much better at remembering chairs ;-) I can say that the last seven meetings no one has left a chair! Who said an old Worm can't learn a new trick?

*** ANYONE'S FINGERPRINT CAN UNLOCK GALAXY S10
PHONE***

BBC NEWS, TECHNOLOGY 17 October 2019

A flaw that means any fingerprint can unlock a Galaxy S10 phone has been acknowledged by Samsung. It promised a software patch that would fix the problem.

The issue was spotted by a British woman whose husband was able to unlock her phone with his thumbprint when it was stored in a cheap case.

When the S10 was launched, in March, Samsung described the fingerprint authentication system as "revolutionary". The scanner sends ultrasounds to detect 3D ridges of fingerprints in order to recognize users.

Samsung said it was "aware of the case of S10's malfunctioning fingerprint recognition and will soon issue a software patch".

South Korea's online-only KaKao Bank told customers to switch off the fingerprint-recognition option to log in to its services until the issue was fixed.

Previous reports suggested some screen protectors were incompatible with Samsung's reader because they left a small air gap that interfered with the scanning.

The British couple who discovered the security issue **told the Sun newspaper** it was a "real concern". After buying a £2.70 gel screen protector on eBay, Lisa Neilson registered her right thumbprint and then found her left thumbprint, which was not registered, could also unlock the phone.

She then asked her husband to try and both his thumbs also unlocked it. And when the screen protector was added to another relative's phone, the same thing happened.

TWITTER "INADVERTENTLY" USED EMAIL ADDRESS FOR ADS

BBC NEWS, Dave Lee October 8, 2019

Twitter has apologised for "unintentionally" using email addresses and phone numbers, provided by users for account security, to enable targeted advertising. The company said third-party marketers may have been able to reach specific users on Twitter based on contact details, even if the user had not wished the information be used this way. In a statement, Twitter said it "cannot say with certainty how many people were impacted", but the BBC understands it affects users globally.

Unusually, the company is not proactively contacting customers directly to inform them of the breach. The company would not say when it discovered the issue, but said it had addressed the problem "as of September 17" - 21 days ago. The firm said it was "no longer using phone numbers or email addresses collected for safety or security purposes for advertising".

Twitter, which has its European headquarters in Dublin, would not confirm whether or not it had notified the Irish Data Protection Commissioner, other than to say it was communicating with regulators "where appropriate". Under Europe's General Data Protection Regulation (GDPR), users must be informed if data is used for a purpose other than what it was intended for.

Twitter says it has 139 million users that use the platform every day and are served with adverts.

The issue involves a system Twitter offers advertisers whereby they can match their own database of customer email addresses - gathered independently from Twitter - with users on Twitter that use the same email address. The practice - common across social networks - allows for highly targeted advertising designed to reach users who are likely already familiar with the brand or product.

However, what Twitter revealed in its statement on Tuesday was that this email matching was referencing addresses that users had submitted solely for the purpose of enhancing their account security by adding two-factor authentication. This is a method that adds a second level of security - such as getting a text message with a log-in code - to prevent malicious actors from being able to use a person's credentials. "When an advertiser uploaded their marketing list, we may have matched people on Twitter to their list based on the email or phone number the Twitter account holder provided for safety and security purposes," the company explained.

"This was an error and we apologise."

In March, Facebook was highly criticised for using numbers and email addresses submitted for two-factor authentication to target advertising. Unlike Twitter, however, Facebook did not consider the behaviour to be mistake. But, in handing down its record-breaking \$5bn fine, the US Federal Trade Commission said Facebook must stop using "the phone numbers it obtained specifically for security" to power its advertising platform.

*** DIRECTIONAL PARASITIC ANTENNA BASICS ***

By Ralph WD0EJA Bilal Company

Many radio operators desire a directional antenna. Putting most of the radiation in or from one direction. On the HF and lower frequencies reflection is near to impossible. There is not enough natural inductance in metal to mirror the lower frequencies. What can you do?

Parasitic or phased elements that are energized by induction.

This will be real basic, just to get an idea how a directional antenna works.

A common directional antenna is a yagi. It is built with an antenna that is directly fed with the coax coming from the radio. Therefore, it is a common dipole. There is another dipole on the rear direction and at least one or more on front direction.

The dipole or element that will be the rear is a called a reflector. This is a misnomer since it does not reflect RF current.

RF energy from the fed dipole, called the driven element radiates. This reflector dipole is in close proximity and on the same plane as the driven. Therefore, RF energy induces into this reflector much like a transformer.

Due to it acting like a transformer, it radiates the energy from the driven element, but at 180 degrees out of phase. For simplification, say the reflector element is at a $1/4$ wave distance

from the driven element. By the time the radiation from the driven reaches the reflector it is 90 degrees delayed or out of phase with the driven. The reflector re-radiates, but 180 degrees out of phase. This radiation when it reaches the driven is back in phase, enhancing radiation in the direction opposite the reflector side. The re-radiation at the reflector cancels the radiation from the driven, nulling radiation in the reflector direction.

	DRIVEN ELEMENT	REFLECTOR ELEMENT
RADIATION FROM DRIVEN DELAYED	↑	→ 90 DEGREES
BACK IN PHASE RADIATION	↑	← 180 DEGREES

The director elements on the opposite side of the driven are closer spaced to the driven. This allows radiation from the driven and reflector to have an affect. This enhances radiation only slightly in the director direction, but substantially increases the nulling affect toward the reflector.

Now, you can start building your yagi beam.

Of course. there are many variables that affect the performance of a parasitic array. There are many variables in spacing, the size of the conductors, efficiency of the driven element and more. Don't be afraid to experiment. You are more likely to get results than not.

73,
Ralph WD0EJA



CLUB MEETING

The next club meeting is November 2nd. We meet on the first Saturday every month at 11:00 Saturday morning at the Minnreg Building located at 6340 126th Ave N, Largo. Members are welcome to come in the rear area through the fence gate on the southeast corner of the property. Talk-in is on the Wormhole repeater system. For those coming to the meeting who cannot hit our repeater we will be monitoring the Honeywell club repeater on 443.050 +141.3. We will keep an eye peeled for you. We will take advantage of the cooking facilities with an after-the-meeting Social and Wormdog picnic.

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. We are always looking for volunteers to be the net control operator. Anyone interested, talk to one your club officers.

LOCAL NETS

MONDAY

1730 147.030 + Receiver sites and tone info <http://www.qsl.net/wd4scd/> St Pete Yacht Club ARC

1830 147.060+ no tone St Pete ARC daily net St Petersburg

1900 144.210 USB Clearwater	CARS, vertical polarization	
1900 147.135 +146.2 Zephyrhills	Zephyrhills ARC	
2000 147.165+ 136.5 Brandon	Brandon ARS	from
2000 50.135 County	Pinellas ARK	Pinellas
2030 NI4CE system	EAGLE Net, NTS traffic net,	NI4CE system
2030 145.450 County	Pinellas ARK	Pinellas
TUESDAY		
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
1900 50.200 USB ARS	6M net	Brandon
1900 28.450 Clearwater	WCF section net	
1900 NI4CE system system	WCF Section VHF ARES	NI4CE
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	Tampa ARC net	from
2000 28.365 USB	simplex	Brandon ARS
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE

2100 28.465 USB 10/10 net from Orlando

1900 146.490 simplex 3RD Tuesday monthly, Hillsborough Co ARES
simplex Net

WEDNESDAY

1830 147.060 no tone St Pete ARC daily net from St
Petersburg

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

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 444.225 + 146.2 Tampa	Hillsborough ARES/RACES	from
1930 146.850- 146.2 Petersburg	Wormhole	from St
2000 53.150 –1MHz 146.2 Petersburg	Wormhole	from St
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
FRIDAY		
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
SATURDAY		
0730 3.940 (7.281 Alt.)+/- QRM WCF	WCF Section HF Net	from
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
SUNDAY		
0800 3.933	Florida Traders Net	non-affiliated
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
1930 NI4CE system system	WCF Section Net	NI4CE
2000 147.550 simplex County	550 Simplex Net	Pinellas

2030 NI4CE system
system

EAGLE Net, NTS traffic net

NI4CE

2100 144.210 USB
orientation

Clearwater ARS

vertical

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 have all the information you need on a club roster and 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.

FOR SALE, ICOM IC-756 Pro, HF and 6M, 100 watts, hand mic, power cord and manual, Local only. See George W1AAG

FOR SALE, MFJ-989C Versa Tuner V, 3 KW, with three continuously variable components--two variable capacitors and a roller inductor--you get the widest matching range and the most precise control over SWR possible, \$200, Bill AG4QX at arrl dot net or see me at the meeting.

FOR SALE, Mosley TA-33M 10-15-20M beam with the 40M add on kit. Antenna is on the ground and in good shape. There are several parts that need replacement. The 40M kit is new in box. Antenna is broken down into six or seven feet sections so easy to handle. Asking \$300, talk to me, Bill AG4QX at arrl dot net or see me at the meeting.

FOR SALE, Cushcraft A4S 10-15-20M beam, on the ground. There are several parts that need replacement. Asking \$250, talk to me, Bill AG4QX at arrl dot net or see me at the meeting.

HAMFESTS

2019

- October 26** **Gulf Coast ARC Hamfest**, New Port Richey, Millennium Academy, 10005 Ridge Road, admission \$6, tailgate free, Talk-In on 146.670 - no tone, For info contact Ralph McCullough , WA3YFQ 727-247-4790, no information on their website
- 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. For more information go to <http://www.sparc-club.org/sparcfest.html>
- November 16** **TARCFest makeup day for rained out hamfest**, TARC Clubhouse, 22nd St at the river, \$5 entry including tailgate, a few inside tables reserved in advance, talkin on 147.105 +146.2, more info at <http://hamclub.org/>
- December 13 & 14** **Plant City, the 2018 Tampa Bay Hamfest is the West Central Florida Section Convention, Friday and Saturday, at the Expo Building in the Strawberry Festival grounds, advanced admission \$9, at the door \$10, for information contact Bill Williams AG4QX, chairman@fgcarc.org or go to <http://www.tampabayhamfest.org> or you can just ask me, Jim or Dee at a meeting ;-)**

2020

- January 11** **TARCFest**, TARC Clubhouse, 22nd St at the river, \$5 entry including tailgate, a few inside tables reserved in advance, talkin on 147.105 +146.2, more info at <http://hamclub.org/>
- February 7-9** **Orlando Hamcation and State Convention**, Central Florida Fairgrounds, 4603 West Colonial Drive, Tickets \$15 in advance, \$17 at door. Talkin 146.4760 - no PL or D-Star 146.850 -, all the information at www.hamcation.com or call 407-841-0874
- February 21 & 22** Punta Gorda, **5th Annual TECHCON Convention**, Charlotte County Emergency Operations Center, 26571 Airport Rd, , for

more info <http://arrlwcf.org/> or contact Darrell Davis at kt4wx@arrl.net.

May 23

WormFest 2020, Pinellas Park, admission FREE, tailgate free, Freedom Lake Park, 9990 46th St N, southeast corner of US 19 and 49th Street, 33782. Park opens at sunrise for vendor setup, hamfest starts at 0800. Talk-in on 442.625 + or 146.850 – both with a tone of 146.2. For a map and directions see <http://www.TheWormholeSociety.org> .

Mid January	Frogman swim in Tampa Bay. http://www.tampabayfrogman.com/
Last full weekend January	Winter Field Day, https://www.winterfieldday.com/
Late January	Gasparilla celebration
Late February	West Central Florida Tech Conference http://arrlwcf.org/wcf-special-events/wcftechconference/
March/April	MS Walks
March/April	Mass Casualty Exercises
Late April	Southeastern VHF Society Conference, http://www.svhfs.org
Late April	Florida QSO Party
Mid May	March For Babies (was March of Dimes) https://www.marchforbabies.org/Registration/Events
Early to Mid May	MS 150 Citrus Tour bike ride http://www.citrustour.org/register.php
Mid-May	Annual Armed Forces Crossband Test
Mid-May	Florida Hurricane Exercise
May, Memorial Day Weekend	Wormfest
Early June	Museum Ships on the Air
Fourth weekend in June	Field Day http://www.arrl.org/contests/announcements/fd/

July 3/4	Midnight Run in Largo http://www.kiwanismidnightrun.com/
August	International Lighthouse/Lightship Week https://illw.net/
October, 3 rd weekend	JOTA, Scout Jamboree-on-the-AIR (around 14.280MHz)
Early December	ALS bike ride in Walsingham Park
December, Second weekend	Tampa Bay Hamfest http://www.fgcarc.org/

YOUR WORMHOLE OFFICERS

Bill AG4QX is President and editor of this newsletter, Treasurer is Jim KD4MZL, Paul KA4IOX is the Secretary, Dee N4GD is the Repeater Trustee and Mike K4ZPE is both our club Vice President and webmaster.

YOUR WORMHOLE REPEATERS

53.150 -1Mz PL 146.2

442.625 +5Mz PL 146.2

146.850 - 600Kz PL 146.2

The Wormhole repeaters are both now dual mode Yaesu DR-1X. FM analog as always and now Yaesu Fusion, a C4FM/FM digital mode.

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

West Central Florida Section website: <http://www.arrlwcf.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.

Bill Williams

AG4QX

ag4qx AT arrl DOT net