



THE COMMUNICATOR



Mailing Address: P. O. Box 976, Nokomis, FL 34274

W4AC Repeaters: 444.100 MHz (DMR) & 146.805 MHz (-) (PL100Analog)

Incorporated 1984

<http://www.tamiamiarc.org>

June, 2021

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President's message.....NS4P

It's June, and for many amateur radio operators in the USA that means one thing – Field Day! Field Day is often referred to as “Ham Radio’s Open House” where we go out of our way to set up in public spaces and advertise our activities to the public. This is the weekend we get to show off what we can do in an emergency. Many of us have emergency power systems at our homes, but the true test is to use all temporary systems and antennas in the field to prove what we can do “when nothing else works”.



For several years TARC has put in a superior effort for Field Day. While last year most of us operated from home or solo at a park, this year I'd like to encourage all TARC members to come out and contribute to the effort at the club station (we'll have an announcement on the location very soon) and help put on a great show.

As always, I would like to put out a special invitation to our new members. Helping to construct a station from scratch in the field is an excellent chance to gain experience and ask questions about station setup. Frank (W2XYZ) and Jim (KJ4NDO) have fine-tuned our club station over the years, so we have a very nice setup. This year we will finally get to use our new IC-7300 rigs to go along with our excellent antennas. Putting the stations together is a great team-building experience and a great deal of fun.

Operating for Field Day is also an excellent way to gain experience, improve your skills, and increase your confidence. While not truly considered a “contest”, Field Day is a remarkably busy weekend on the air. Our club stations are quite capable (we have amplifiers for CW and SSB) so we should be able to make lots of contacts. Since we operate under the club call sign and will have Control Operators available, our Technician class licensees can operate on 20 and 40 Meter SSB (where most of the action is). We will have stations for SSB, CW, and FT8 so we have all the bases covered. If you are not interested in actually operating, we can also use help logging, and we always encourage all of our members to come and enjoy the camaraderie. We will also have a Get On the Air (GOTA) station for unlicensed persons who want to give ham radio a try, so bring along children, significant others, or friends who might want to see what ham radio is all about (a watchful control op will be supervising the GOTA station).

Please watch Groups.io for news on sign-up for operating slots, and even if you don't sign up ahead of time, we welcome all members and their families and friends to come out and join in the fun.

73, Steve, NS4P

Next Issue

July 15th

Field Day

Report

[No club meetings July & August]

Next meeting 7:00 PM, Wednesday, June 09, 2021 via ZOOM.

Check Groups.io for the link to connect.

TAMIAMI AMATEUR RADIO CLUB *Minutes of the 5/12/21 Meeting*

The monthly club meeting was conducted on Zoom and was called to order at 7:06 PM by President Phillips, NS4P. Steve recited the pledge to the flag. Attendance was captured via the Zoom session with new club member Nancy Heinrich, N4ZM, from Sarasota in attendance. Many club members recognized Nancy from QCWA and SERC.

MINUTES: Steve, NS4P, requested a motion to accept the minutes of the April 14, 2021 meeting as published in The Communicator. Motion was made by Jim Shortill, KJ4NDO, seconded by Paul Nienaber, KN4BAR, and approved.

CORRESPONDENCE: TARC received four QSL cards for W4AC and they were given to Jack Sproat, W4JS.

TREASURER'S REPORT: Treasurer Frank Wroblewski, W2XYZ, reported a beginning balance of \$19,005.47, receipts of \$425.00 (including dues + Active Suncoast generous donation \$250.00), reserve fund contribution of \$167.00, expenses of \$191.26, and an ending balance for the month of April of \$19,406.21. Motion was made by Steve Froggatt, KN4NFX, seconded by Chet Fennell, KG4IYS, and the Treasurer's report was approved.

COMMITTEE REPORTS:

SUNSHINE: Jim, KJ4NDO, sent cards out to members who were feeling under the weather. Dick Engel, AA4PE, is recovering from ankle surgery and his XYL Mary is still recovering in rehab. We wish them speedy recoveries.

VE TESTING: Steve, NS4P, mentioned that he had three candidates in May; two received their Tech license and one upgraded to General.

LIAISON TO QCWA: Al Culbert, K0AL, reported that the QCWA will resume their monthly gatherings in October.

REPEATER / TECHNICAL: Frank, W2XYZ, reported both the digital and analog repeaters were working well and the latest adjustments to the EchoLink node seem to have improved performance. The digital net is held on the club 444.100 DMR repeater using Talk Group TAC 315. The digital net opens Tuesdays at 7:30 PM. The club 2m analog repeater frequency is 146.805 MHz (-) PL 100. The 2m net opens Thurs-

days at 7:30 PM. Hams can participate on the analog net via EchoLink using a computer, an iPhone, or an Android system based phone. Click on W4AC-R (Node 513309) on the EchoLink directory screen to establish EchoLink contact. The 10m net is on frequency 28.450 MHz, upper side band, and begins immediately after the conclusion of the 2m net.

Tom Wilson, W1ICU, continues to host via Zoom a Virtual Breakfast gathering on Wednesdays at 10:00 AM. For details, please refer to the Groups.io site.

MEMBERSHIP: Paul, KN4BAR, reported there are now 108 regular members, 9 first year members, 3 associate members (no call sign), 8 life members, and 1 comp for a total membership of 129. All members are listed on the Members Only page on the TARC website. Please email paul9aber@gmail.com the date you joined the club if you have not done so already.

OLD BUSINESS: 1. Repeater Maintenance Team Update. Chet, KG4IYS, mentioned the tower guys will return when they can schedule other work in the area. We are still expecting the AV-680 antenna to be shipped June 21, 2021. EchoLink and the HF remote station are working well.

2. Fox Hunts. San Yoder, K3SY, and Tom Shrilla, W8QJF, were the foxes for the May 1 fox hunt, which was well attended. The next fox hunt is June 5 with Tom Babcock, KN4ONE and Steve, NS4P, as the foxes. Paul, KN4BAR, reminded everyone to keep their calendars open on October 23, 2021 for the Tamiami Fox Hunt at Carlton Reserve.

3. TARC Web Site. You will notice a small lock to the left of the TARC's URL as Paul, KN4BAR, recently upgraded the security on the TARC website. If you are interested in becoming a webmaster backup, please contact Paul.

4. FL QSO Party. Frank, W2XYZ, reported that the FL QSO Party was held on April 24-25 with many members participating from Al's cottage. The club made over 1,000 contacts each on SSB and CW.

NEW BUSINESS: 1. Field Day is June 25-27; we will set up a club station or you can set up your own station.

Continued >>>>

TARC Minutes, continued

2. RSGB IOTA Contest is a multi-op/mixed-mode 24-hour event being held on July 24-25.

3. Andy Durette, KB1HIP, will contact the Boca Grande Lighthouse ranger to see if TARC can set up a station for the National Lighthouse Day event on August 7-8.

4. Paul, KN4BAR, reserved a meeting room at Venice City Hall September through December for monthly club meetings. We are hoping to have other options as COVID restrictions are lifted.

5. Get your creative juices running and submit an article to The Communicator! San, K3SY, is always looking for content so don't be shy and there is no minimum length for an article.

ADJOURNMENT: Chet, KG4IYS, made the motion to adjourn the meeting, Randy Aitken, KO4PIV, seconded, and the membership adjourned at 7:48 PM. There were 19 members at the meeting.

Program: Tom Babcock, KN4ONE, facilitated "Show & Tell" with Frank, W2XYZ, and Steve, NS4P.



Save the dates, at 2 PM on June 26 until 2 PM on June 27 is the ARRL Field Day. Without question, Field Day is the biggest event in amateur radio each year. Last year COVID hampered the way we usually conduct Field Day, but that won't stop us this year. This year we will set-up outdoors with temporary antennas, generator power, and lots of enthusiasm.

During Field Day, clubs (and individuals) across the country contact each other to see with how many stations they are able to make contact with. We'll have a phone (single sideband) station, a CW station, and a special digital station set-up, called a GOTA station, that

will primarily be used by new hams. For the most part, only hams licensed in the past 12 months will be allowed to operate the GOTA station. Don't worry newbies, you are not being pushed under the bus or being thrown to the wolves. There will be a seasoned ham (almost sounds like a dinner entrée) alongside you to guide you until you feel totally confident operating the GOTA station.

New Hams are not restricted to only working the GOTA station. They are most welcome and needed at the phone station too. At the phone station they can log (type call signs into the computer) for the experienced operator as he makes contacts. Doing so, they will learn the jargon and techniques of operating a HF station. When they are ready, they can move over to the position with the microphone and try their hand at making points for the club. The best part is, you don't need to have a general or

above license to speak on the HF bands during Field Day, as a licensed supervisor will oversee your operation.

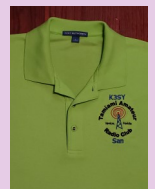
I'm sure you are wondering how to register or sign-up to participate. Shifts at Field Day are broken down to 2-hour segments. The procedure for signing-up will be announced at the June club meeting. The schedule will be posted on our website. The first people signing-up will have first choice in the hours they want to operate. If you are wondering whether you are allowed to sign-up for more than one shift, the answer is yes, but again it's first come first served. Shifts selected can be consecutive or staggered, for example 2 hours on Saturday evening and then 2 hours Sunday morning, or however you wish.

Specifics as to where we will hold Field Day will be announced at the June club meeting.

Frank Wroblewski, W2XYZ

BULLETIN

O TARC has added several dozen new members in the past 2 years. We have an arrangement with a local Venice business to make these **personalized TARC shirts** available to club members. With field day coming the end of June and the resumption of in person meetings planned for September it would be really nice if all our club members were showing club colors. Visit our website for full ordering information: <https://tamiamiarc.org/club-shirts/>



R **The foxes are running!** Don't miss the next fox hunt scheduled for Saturday, June 5th. Meet at 9AM at the old Albertson's parking lot at the intersection of 41 bypass and Center Road. Hunt or watch, your choice. No equipment - no problem! Team up with a hunter for the experience.



MAJOR CURRENT/UPCOMING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY

COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEARING	HF BANDS and BEST OPENING TIMES (UTC)							
			80	40	30	20	17	15	12	10
Nigeria – 5N7MSF by F5MAW, mostly 20/15	Now to 15 Sept	86	--	23-06	22-07	19-24	11-22	16-21	NO	NO
Falkland Is – VP8ZMS by M0ZMS, Digital	Now to 21 Aug	165	NIL	00-10	23-08	21-24	13-22	16-21	18-19	NO
Tonga – A35JP by JA0RQV, CW, SSB, FT8	Now to 30 Jun	252	0800	05-12	04-12	02-10	21-06	20-04	19-03	NIL
Vietnam – 3W9OK by AA5H	Now to 30 Jun	350	NO	NO	NO	NIL	2300	NO	NO	NO
Somalia – 6O1OO by EP3CQ, mainly FT8	Now to 30 Jun	69	NO	NO	2400	04/21	12-20	NO	NO	NO
Benin – TY5AB by ZS6JSI	Now to 30 Jun	87	00-04	23-07	21-08	19-01	11-21	16-21	NO	NO
Niger – 5UAIHM by F4IHM, CW	Now to 27 Jun	80	01-04	23-07	22-07	19-04	11-21	16-21	NO	NO
Christmas Is – VK9XX by VK6SJ, most FT8	Now to 11 Jun	154	NO	NO	NO	1100	02-03	0300	NO	NO
British Virgin Is – VP2V/NC3Z, SSB & FT8	03 to 14 June	114	22-11	20-15	00-24	00-24	13-03	17-01	22-24	NIL
Greenland – OX3LX by OZ1DJJ, HF + 6m	08 Jun to 10 Jul	19	02-09	00-10	22-06	20-02	NO	NO	NO	NO
Ogasawara – JD1BLY by JI5RPT, all modes	10 to 12 June	318/138	NO	1000	10-12	13-15	22-03	23-24	NO	NO
Alaska – KL7RRC by 4-op team, all modes	30 Jun to 03 Jul	327	07-09	04-11	03-11	21-05	NO	NO	NO	NO
Liechtenstein – BB0/HB9HBY, all modes	30 Jun to 04 Jul	46	01-04	23-07	22-06	11-01	21-22	NO	NO	NO

Prepared 28 May 2021 based on <https://www.ng3k.com/>, *The Weekly DX* 21-21, and the *Ohio/Penn DX Bulletin* No. 1517.

Notes: Times shown are for S-5 or better signals and 60% or better opening probability. ??? = Call Sign or Date not yet known; ++ = Mostly SSB; ** = Mostly CW; NO = No Opening forecast, NIL = band is open but signals below S-5 threshold. Long Path bearings and opening times are underlined. All forecasts are calculated using VOACAP <http://www.voacap.com/hfi>.

-- MAY SOLAR ACTIVITY --

Through 28 May, the 10.7 cm Solar Flux ranged from 71 to 88, with a mean value of 77.0. The A_p index was ≥ 7 on 13 days during that period. Sunspot groups were visible on 23 days, varying from one to two groups at a time. There were C-class solar flares on eight days and M-class flares on three days during May.

-- JUNE FORECAST --

Solar activity is expected to be at very low levels 01-11 Jun. Low levels are expected to return on 12-19 Jun as Region 2824 rotates back onto the visible disk.

No proton events are expected at geosynchronous orbit.

Geomagnetic field activity is expected to reach G1 (Minor) storm level on 16 Jun as a recurrent, negative polarity CH HSS becomes geoeffective.

The solar flux should range from 74 to 79, and average 76.3 for the month.

(From *NOAA Weekly Highlights and Forecasts*, 24 May 2021, *NOAA 27-day Space Weather Outlook Table*, 24 May 2021, and *45 Day AP Forecast*, USAF, 24 May 2021.)

-- CERTAIN 3D2 OPS ARE INVALID --

It has been reported by a few sources that the ARRL DXCC Desk is saying operations by 3D2DOM, 3D2JK and 3D2ZK are NOT valid for DXCC. Also, Mike-G7VJR, author of ClubLog, reported on Twitter (<https://twitter.com/g7vir/>) that "3D2ZK is now suspended from using the expedition mode and OQRS in ClubLog". There has also been a report that John-K9EL, CQ DX Marathon Manager, states "any QSOs with 3D2ZK will not count for the 2021 DX Marathon". For more details on why these actions have tak-

en place, we suggest or refer you to the following Web page: <http://3z9dx-busted.com>. (From *Ohio/Penn DX Bulletin* No. 1517)

-- MASTER OF MORSE --



Ted McElroy, Master of Code

The record for copying Morse Code goes back to July 1939 when Ted McElroy and several others sat down at a competition in Asheville, North Carolina to compete in a Code Contest. They started at 40 wpm, gradually speeding up to 50, then 55 as one competitor falls, the speed increases to 60, then 65 with only two still in competition. As the speed reaches 70 wpm, one of the remaining competitors takes off his headphones and concedes victory to McElroy. The machine continues to run at 75 wpm and McElroy continues to copy. As the speed increases to 80 wpm, McElroy stops typing. The contest is over and McElroy's record is established at 75.2 wpm. That record still stands.

FOX News - no, not that one!

The report of the May first TARC fox hunt is best served up in the words of the participants. Comments were solicited from: Fox Breeders - KN4BAR, & W2XYZ, Alpha Fox - W8QJF, Beta Fox - K3SY, Fox killer 1 - KN4ONE, and Fox killer 2 - NS4P. Here are their observations:

Paul, KN4BAR says:

My lesson learned. Provide strain relief on all lines connected to your attenuator. In my case the BNC connector on my attenuator for the radio connection worked itself loose and broke the thin wire inside the case from the PCB. This happened in the parking lot of Albertsons, so I was out of the hunt from the get go!

I had a suggestion from Gary Wells that 'found' foxes be left in place until all hunters have had a chance to find them. Gary was last hunter to the party and didn't get a chance to do the micro-fox part of the hunt.



Frank, W2XYZ says:

The Fox Hunt was fun and the weather was perfect. My tip for future hunters is pay attention to the surroundings. I was at the location of the first fox but didn't find it because I didn't look carefully enough in its lair.

I walked right past the second fox because I was focused on looking at the S-meter on the radio. Had I looked up from the radio, people would probably be cheering my name and singing ballads about what a great hunter I am. Well maybe not that much adoration, but at least I would have earned the title of being one of TARC's great white hunters.



Tom, KN4ONE says:

- In the urban environment, signals bounce around a lot making it difficult to get an initial directional fix from the Albertson's parking lot.
- An attenuator definitely helps when you get close to the fox.
- Open your squelch or use a radio with an analog squelch. I had better results using an old Radio Shack scanner with analog squelch.
- Headphones helped a lot, to make it easier to hear smaller fluctuations in signal strength, and to eliminate the sound from nearby hunters radios.
- Pay attention to any clues the high power foxes may blurt out. If all else fails, just recheck every place Frank looks!



More Fox tracks

Tom, W8QJF says:

A lot of fun! Special thanks to Steve for acquiring and programming the new breed of foxes!!! The unique audio sent by each really helped knowing to whom you were listening.

I wonder if a common frequency for two-way between the hunters and fox control might help...not to aid in location, but just to know hunters are still out there, or if there's a problem or something. Maybe run fox den control through Echolink so it couldn't be used as a beacon?

Oh...And a special salute to Paul for coming out and hunting...especially after his last ham event was so tragic. He powered right through the pain.



Steve, NS4P says:

It was a great event and thanks to Paul, San, and TomS for putting it on.

The main thing I learned, if you can hear the micro-fox, you are probably within walking distance. I heard it and then proceeded to drive 2 miles past it - SMH

San, K3SY says:

This was my second fox hunt. It was lots of fun hiding the foxes. Tom and I could have done a little better on the timing of the transmissions, but that's why we practice.

Looking forward to the next one. Purchased a brand new loop antenna and attenuator – those foxes don't have a chance!



More >>>

Scenes from the foxes' lair

Class photo by W8QJF



Class photo by K3SY



Offset Attenuator Magic

By Tom, KN4ONE

The advent of TARC fox hunting has created a lot of interest (and sales) of offset attenuators. When near a fox transmitter, the attenuator is very helpful in reducing the signal strength to the radio so direction finding antennas work better.

The most popular offset attenuators are generating a 4MHz signal and mixing it with whatever signal is being received. As we learned in our licensing studies, when two signals are mixed the output is a signal above and below the original. The amplitude of the 4MHz signal can be adjusted from zero to maximum, so the offset signal can be reduced to very low levels or even nothing.

As a product of the TV generation, I need a visual. The images below show 10MHz of spectrum using an SDRPlay and SDRUno software. The primary signal being received is the local NOAA weather station. The mixed signal can clearly be seen at ± 4 MHz. My primary takeaway from this

experiment is that there is insertion loss of about 12dB to the primary signal with the attenuator inline. At the offset frequency the maximum signal strength is about 37dB below the primary signal with no attenuator. So it may be beneficial to tune to the primary frequency when searching for a distant fox.

I also learned that my homemade Franken-circuit attenuator generates more spurious mixing products than the store-bought one, but performs the task just as well.

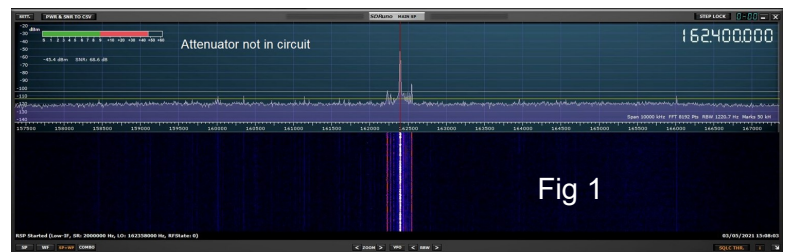


Fig 1

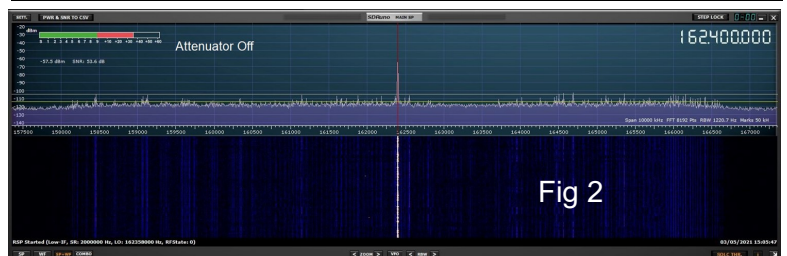


Fig 2

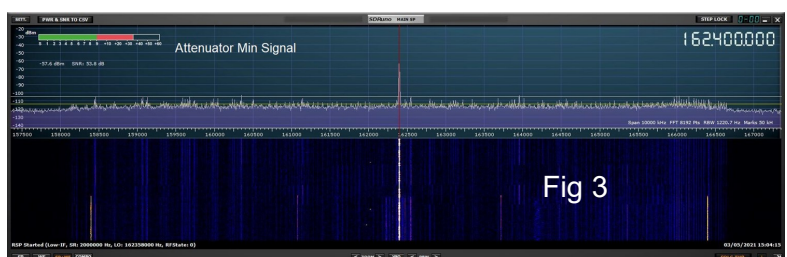


Fig 3

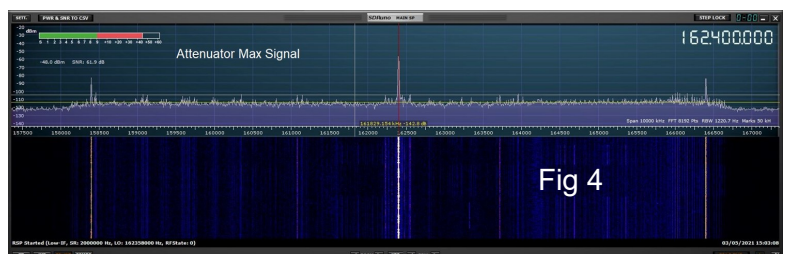


Fig 4

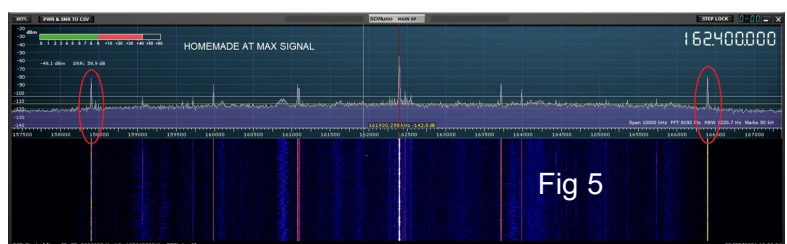


Fig 5

Fig 1. 10MHz of spectrum with the SDR tuned to the local NOAA weather station. Other NOAA stations are clustered around it.

Fig 2. The KC9ON offset attenuator in the antenna circuit and turned off. Insertion loss is very noticeable and the noise floor is slightly raised.

Fig 3. The KC9ON attenuator turned on and set to minimum signal (maximum attenuation). Very slight increase in the noise floor.

Fig 4. The KC9ON attenuator at maximum signal (minimum attenuation). The maximum signal at the 4MHz offsets is significantly lower than the primary signal. The noise floor is slightly increased. Some spurious mixing products are noticed but are very weak.

Fig 5. The KN4ONE homemade attenuator at maximum signal (minimum attenuation). Significantly more spurious mixing products, but perfectly usable at the ± 4 MHz offset.

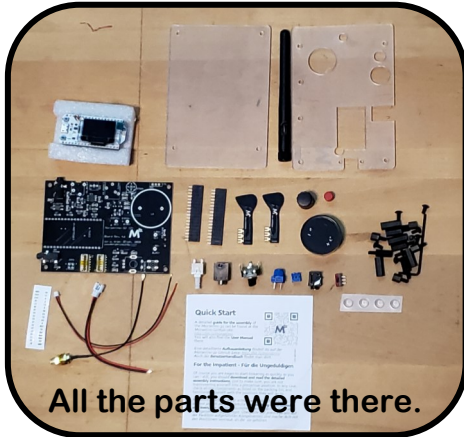
Morserino-32 - A multifunctional Morse code device

by K3SY

After hearing some TARC members talk about building the Morserino code practice device, I thought it would be an interesting kit project to undertake. Some Googling revealed a cost of \$159.00 – not a bad price for a new toy. Since there is only one source for the kit, I sent my order to the Ukrainian supplier.

I remember one of my co-workers from my former working days having a sign on his desk with the slogan “GOOD, FAST, CHEAP – PICK ANY TWO. Well I guess good and cheap is an appropriate pick if you aren’t in too much of a hurry. So, after about a three month wait, the kit finally arrived.

Documentation from the internet on construction and operation are excellent. All the parts were there,



All the parts were there.

however, the lithium-polymer battery is not included. The instructions give two options for locating the battery. With a bit of measuring and shopping, I settled on a 1400 milli-ampere-hour battery, with the intention of installing it beneath the pc board rather than under the Heltec display unit in much more cramped quarters, thus allowing a larger battery. The kit came with a battery connector, but the battery I purchased did not. I opted to buy a different connector set to avoid a mismatch.

Tom, KN4ONE, did a show-and-tell at one of our Zoom meetings about a soldering station he purchased and modified. That cost me more money - I had to have one. I ordered a set with the idea that it would be the perfect tool for building the Morserino.

I have been using an old Craftsman 500 watt gun for the heavy lifting, and for the “fine” kit work, a little pencil parked in an old “one spool rack” insulator with a short piece of #4 solid copper insulated wire bent to serve as a stand that I picked up off the ground at a job site about forty-five years ago. It has served me well.



The Old Reliables

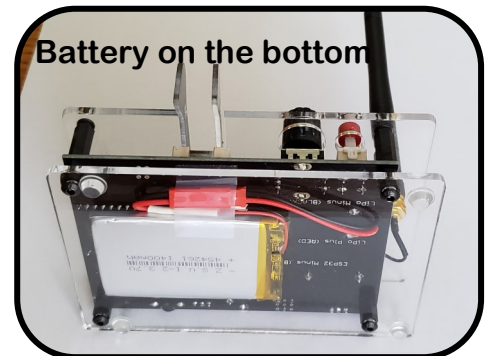
Once again, fast was not in the mix for delivery of the new fancy solder station. It arrived just about the

time I finished the kit with the good old reliable devices.

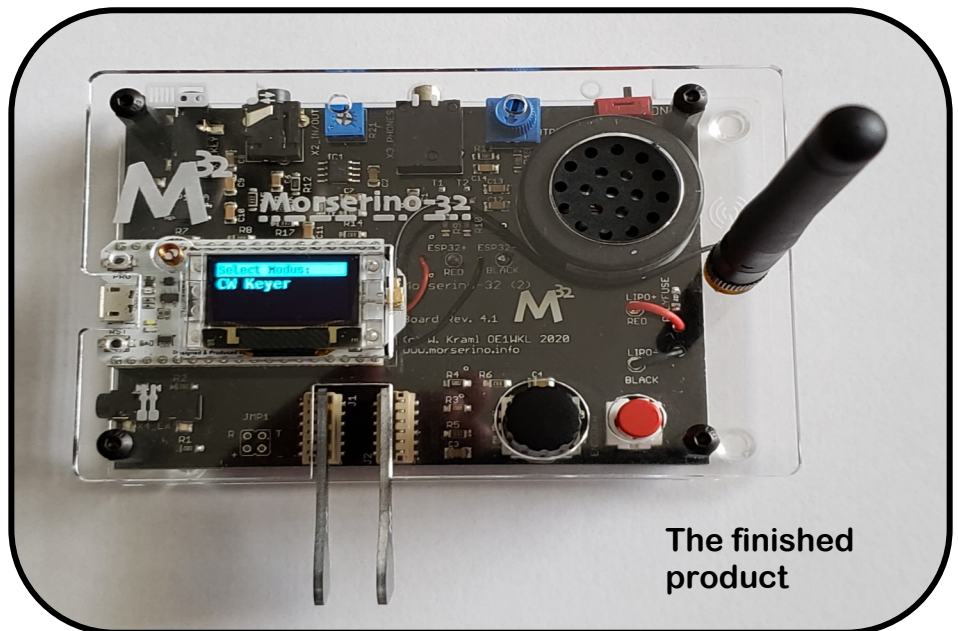


Ready for the case

Everything went together perfectly with no real glitches. And, surprise, it works! Now, to spend the time to figure out all the features and uses is the next hurdle. Initial play-time indicates a fun piece with lots to learn.



Battery on the bottom



The finished product

What didn't you learn in school?

by Tom, KN4ONE

I can't believe I hadn't heard of Nicola Tesla until I was out of college and about 25 years old. He was completely left out of my education. Here is another topic that was left out of my education, and maybe yours too.

We all know about magnets, **ferromagnetic** materials, and maybe even **paramagnetic** materials (materials that become magnetic only when in a magnetic field). But were you ever taught about **diamagnetic** materials?

All materials are diamagnetic to some extent. All materials are weakly repelled by any magnetic field. Materials that have the greatest diamagnetic strength include bismuth (a metal with similar properties to lead), and certain forms of graphite. The effect is weak, thus strong magnetic fields are required to observe the diamagnetic effect. Modern rare earth magnets make this observation possible.

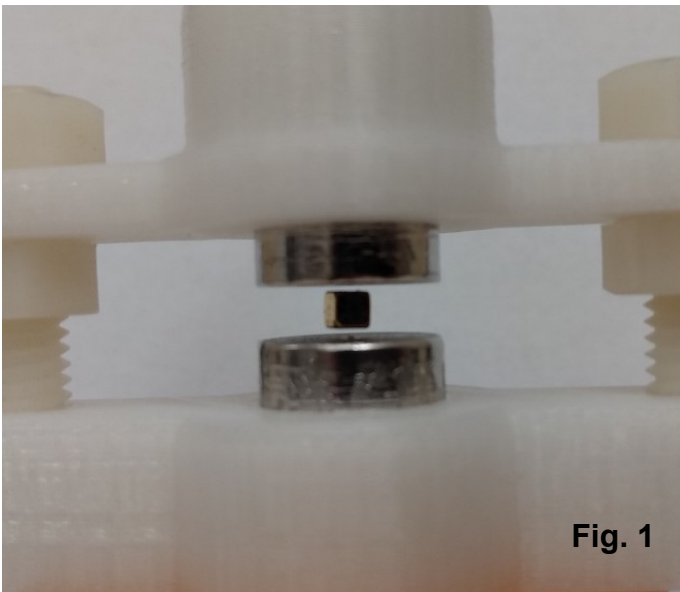


Fig. 1

Figure 1 above shows a 1/8" cube rare earth magnet suspended between two slugs of bismuth. It is stable in this suspension with no energy used. The wider angle image (Fig. 2) shows how a ceramic magnet about 1-1/2" above the cube is used to cancel the

weight of the cube so the diamagnetic effect can take over.

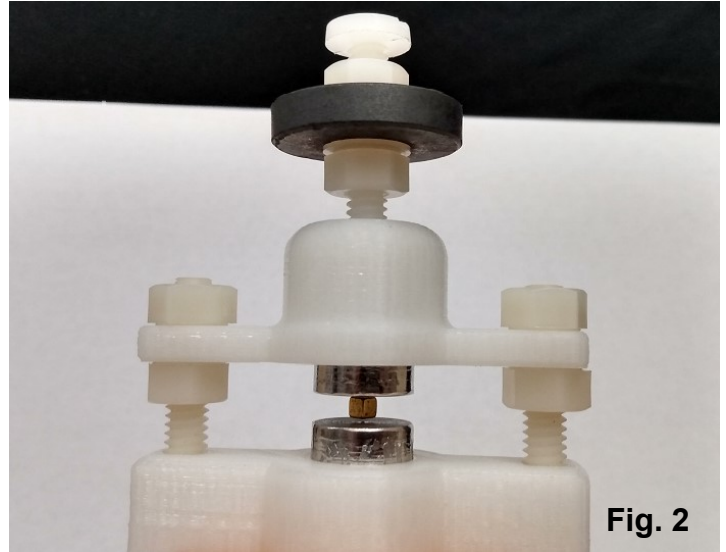



Fig. 2

Figure 3 shows a 1/2" square thin sheet of grafoil graphite suspended about 1.5mm above rare earth magnets. It is stable in this configuration.

So what else didn't they teach me? Antigravity? 

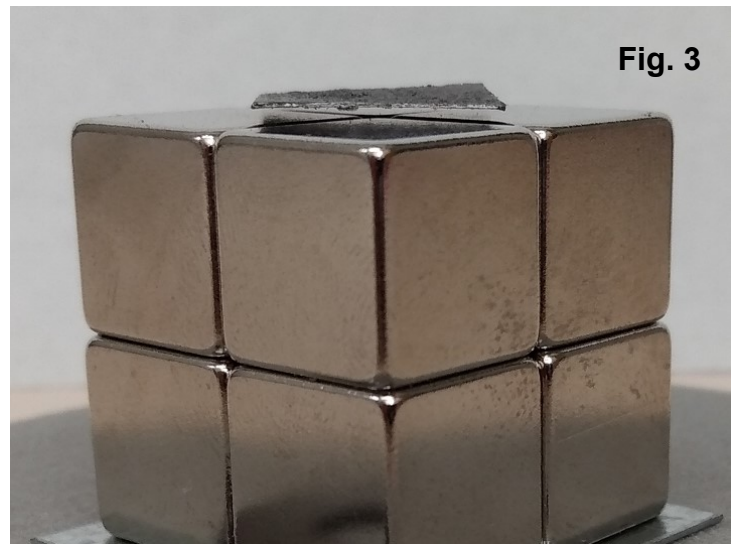
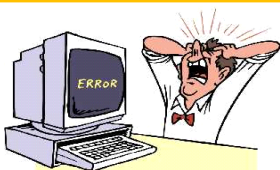


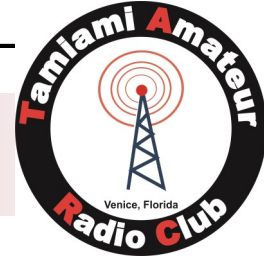
Fig. 3







TOM'S TECH TIPS: Buy now!

by Tom W8QJF

Inflation has been ramping-up covertly but now it's becoming more obvious. Additionally, starting July 1 out-of-state businesses must begin collecting the 6% Florida discretionary sales tax *plus* county surtaxes. We will be instantly paying 6.5% - 8% more for our ham gear. So that IC-7610 you've been eyeing will suddenly cost over \$200 more! If the gear you want is backordered you may elect to be invoiced *before* July 1 and accept delivery afterwards. Save money and buy now!



June 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
* Peaches opens at 6:00 AM. Orders taken at 7:00		1 <i>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</i>	2 # Virtual breakfast via ZOOM 10 AM	3 <i>TARC net @ 7:30 PM W4AC / RPT 146.805 +10M net</i>	4 <i>Breakfast @ Perkins 9AM</i>	5 <i>Breakfast @ DAV 9:30</i> 
6	7	8 <i>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</i>	9 # Virtual Breakfast 10 AM <i>TARC meeting 7:00 PM via ZOOM</i>	10 <i>TARC net @ 7:30 PM W4AC / RPT 146.805 +10M net</i>	11 <i>Breakfast @ Perkins 9AM</i>	12 <i>DAV 9:30</i> <i>TARC VE session @ NS4P residence</i>
13	14 <i>Darn net 11:00 AM Starts on NI4CE/rpt 145.43 pl100</i>	15 <i>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</i>	16 # Virtual breakfast via ZOOM 10 AM	17 <i>TARC net @ 7:30 PM W4AC / RPT 146.805 +10M net</i>	18 <i>Breakfast @ Perkins 9AM</i>	19 <i>Breakfast @ DAV 9:30</i>
20 	21	22 <i>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</i>	23 # Virtual breakfast via ZOOM 10 AM	24 <i>TARC net @ 7:30 PM W4AC / RPT 146.805 +10M net</i>	25 <i>Breakfast @ Perkins 9AM</i>	26 <i>Breakfast @ DAV 9:30</i> 
27 	28	29 <i>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</i>	30 # Virtual breakfast via ZOOM 10 AM	# See Groups.io for sign-on to virtual breakfast		

THE COMMUNICATOR is a publication of the Tamiami Amateur Radio Club (TARC). It is published monthly; except during the summer months, the July and August issues will be combined. The Communicator is forwarded to all members via e-mail, and is available for viewing on the club's web site - www.tamiamiarc.org - Webmaster - Paul Nienaber, KN4BAR.

Editor - San Yoder, K3SY, who acknowledges and thanks these contributing writers this month: Steve Phillips, NS4P, Patti Phillips, N4IGI, Jack Sproat, W4JS, Tom Shrilla, W8QJF, Tom Babcock, KN4ONE, Paul Nienaber, KN4BAR, and Frank Wroblewski, W2XYZ.

Articles of general interest to club members are solicited and welcomed. Please submit photos and/or copy (preferably in Word) to : k3sy@arrl.net. 73, San

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accepted via PayPal [Add \$1.00 convenience fee].

Dues:

Regular member: \$20.00/year

After 6/1 - \$10.00 to year end. After 10/31 \$20.00 thru next year.

Family membership: \$25.00/year. Non-voting student: \$5.00/year.

*New licensee tested through the TARC VE program:

1/1 to 10/31 - free to year end. 11/1 to 12/31 - free thru next year.

Please note: After two month grace period thru Feb., non-renewals will be dropped.

TARC web site: <http://www.tamiamiarc.org>

Contact: Secretary, Patti Phillips, N4IGI - secretary@tamiamiarc.org

