



THE COMMUNICATOR



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

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

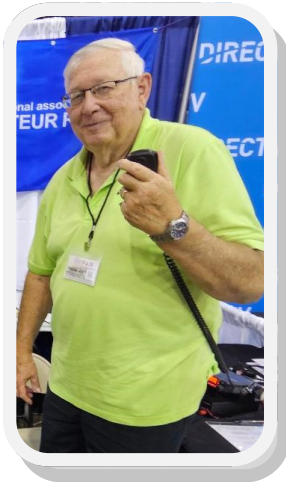
Incorporated 1984

<https://www.tamiamiarc.org>

July/August, 2023

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President's message ... KN4BAR



FIELD DAY! I could stop writing here as these two words sum up what it means to be a ham and a TARC club member. Super turn out from the club membership to set up, operate, and take down four operating stations with multiple portable

antennas. As always, Frank, W2XYZ, was the great planner, organizer, and manager for the event. Well done Frank!

Steve, NS4P, has become the de facto TARC satellite and VHF (50 Mhz) station and operator for club Field Days. Thank you Steve for using your equipment and skill to get those bonus points for TARC!

Special thanks go to Dwight, KT4DDS, for his outstanding promotion of the event. We had 2 dignitaries and over 40 visitors stop by, and we were mentioned in the local papers four different times!

Behind the scenes, our new TARC Quartermaster, Richard, KK4AHZ, has been hard at work inventorying, tagging, and organizing TARC's equipment at our new 10x10 foot storage unit at Cube Space in Venice. After Field Day all our equipment was returned to storage, neatly arranged, and ready for the next use.

The TARC Tool Crib (TTC) program for loan of club equipment to members has been rolled out, and information about it can be found on our website at <https://tamiamiarc.org/tarc-tool-crib/>. Any club member in good standing is eligible to borrow club equipment from the crib. Look at the list and send an email to quartermaster@tamiamiarc.org with your requested items.

Not only was the 4th of July a great patriotic holiday; but, it also served as the anchor for the annual 13 colonies special event that ran from July 1 to 7 (<http://13colonies.us/>). This event has become an annual favorite of hams and offers a very nice certificate and QSL cards for those that can contact some, most, or all (a clean sweep) of the 16 possible stations in the event.

This year, Frank, W2XYZ, made the event an internal TARC contest to see who in the club could make the most points for 13 colonies station contacts on different bands, modes, and power levels. I won't steal any of his thunder here, but will let you read the results posted by Frank in the newsletter. Congratulations to the winner(s). We will do this again next year for sure!

Reminder; there are no club meetings in July or August. See you all again at the September 13th club meeting.

73, Paul, KN4BAR

Next Issue
September
Summer
Happenings

Next meeting 7:00 PM, Wednesday, September 13, 2023 at Venice Presbyterian Church Fellowship Hall, 825 The Rialto, Venice, 34285

CHASING DX CQ DX CQ DX....

Summer Break Issue - July / August 2023

DX Editor: Tony KX1G
KX1G@ARRL.NET

Announced Top 100 Most Wanted in July/August 2023

Dates	Entity	Prefix/Call Sign	QSL Info	
20-Aug – 9 Sept	DR Congo #80	TN	IZ8CCW	By OK2WX; HF; CW SSB + digital
Now to April 2024	Mayotte #99	(FH) FH4VVK	Direct to F4VVJ	Marek, F4VVJ active as FH4VVK

Sources: <https://www.ng3k.com/misc/adxo.html>
<https://dxnews.com/calendar/2023/september/>

A word about the DX list above.

I have added a second source for information on upcoming DX (DXnews.com) and will now list announcements of both individuals and DXpeditions. Good DXing!

Answer to the Question of the Month for June 2023

Another spirited response to this month's Question which asked you to choose to either (1) place a country on the list of DXCC Deleted Countries or (2) choose to let it remain active, and state your reasoning.

- North Korea, P5 (ClubLog Most Needed #1)
Result: 5 Keep 1 Remove.
- Scarborough Reef, BS7H (ClubLog #4)
Result: 1 Keep 5 Remove
- Glorioso Island, FT/G (ClubLog #10)
6 Keep – 0 Remove
- Russia
5 Keep 1 Suspend

I recommend you read the full responses in the Groups.IO question. And I note a DXpedition to Glorioso was announced right after the question was posted! So good call, people! True DXers all.

Questions of the Month for July/August 2023

The DXCC Award has a rich history. Search for it and you will find it on the web. Answer these five

questions (correctly or not) and you will be entered into a drawing for an I'd Rather be Chasing DX coffee mug. Good luck!

Q1: In the March 1955 issue of QST, you could read a reminder of an FCC banned list which included French Indo-China (Cambodia, Laos and Viet-Nam), Republic of Indonesia, Iran, Korea, and Thailand. Following suit, the DXCC had a special list during that time. Should DXCC revived the banned list?

Q2: In 1992 there was a big jump in the number of members who achieved Honor Roll. To what ARRL program was that credited to?

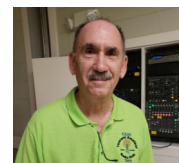
Q3: In what year was the first Honor Roll issued?

Q4: DXCC started in 1937, but was suspended from 1939 to 1945. When DXCC resumed how many countries did it start with?

Q5: The entity prefix VQ9 has a particularly interesting history. Before 1976 the entity changed its name four times! It was called Blenheim, Aldabra, Desroches, and Farquhar. In 1976 this entity changed its name and its prefix to Seychelles (S7). If that's not weird enough, the VQ9 prefix was re-assigned to what entity?

Good luck!

Chasing DX will be back in September. Until then, enjoy the summer, be healthy and safe, and pass along any DX news on our Groups.io page. 73, KX1G



Field Day 2023 - One for the books! by Frank, W2XYZ

Field Day 2023 is now history and a fond memory. As usual, Team TARC performed splendidly. We had tons of visitors, more than ever before, and more than 43 club members showed up, also a record. This year's Field Day was held on June 24-25 at the USCG Aux station. It possibly is the last time we will be using the CG location for Field Day, but that's another story. I know some members were up north and unable to be here, so let me recount what happened.



For us, activities started with a healthy(?) breakfast and/or tasty breakfast at Perkins on Friday morning, June 23. We had 23 people at breakfast that morning and virtually all of them came to help erect our antennas for FD.



For antennas, we used Andy's 2 element Yagi mounted on Jim's tripod and pole.



Also an end-fed random length antenna draped over the CG's fan dipole array. The center of a 40m dipole was run up the flagpole with the ends attached to the small CG tower and to an information sign for our nighttime operation. Steve put out his TW antenna and set it for 10m and was used by the GO-TA station. Bob brought his Force 12 Sigma 80 antenna. Chip dug a nice hole to mount it and guyed it securely.



The star of the antenna-show was our new Hexbeam antenna and matching mast assembly. We earned 100 bonus points by Steve conducting a formal class on the assembly and erection of the Bud-

dipole Hexbeam. Needless to say, it went together and mounted flawlessly.



Behind the station, Steve setup his 'eggbeater' antenna for working satellites (yep, bonus points for that too) and his Hexbeam for 6m activity (more points).



Saturday morning, the gang finished putting together things we needed, like a safety ground system, generator with extension cords, radios, computers, etc. The generator was fired up and all systems tested prior to our 2pm start time. All systems were a GO. Our safety officer, Jim, gave us a safety briefing (more bonus points) and we were ready to begin. Exactly 2pm we were on the air.



There's more >>>>>>

Field Day report ... continued

Steve was waiting for a satellite to come into view,



the CW station was operating,



as was the SSB station



and the GOTA station.



About 2:01pm, visitors started pouring in. Dwight met them outside and gave them an orientation to our antenna field and showed them our operators in action.



The big screen TV with our logging program displayed was a nice feature for the visitors to have a better grasp of what was going on.



A little later, the invited Venice Police Chief (more bonus points) arrived. He seemed very interested in what we were doing and how we can operate during an emergency, so the Chief was given an extensive tour with detailed explanations.



We had visitors of all ages and all walks of life come to watch and learn what Field Day was about. Most learned of the event through the articles Dwight wrote for the

Gondolier and Herald Tribune. I'm sure some also saw how the public was invited to Field Day by reading about it on social media, which Dwight also thoroughly covered.



For the next several hours, things ran smoothly. Paul sent a message to the Section Manager for another 100 points and handled 10 traffic messages for an additional 100 points.



After sunset the CW/FT8 station switched to the dipole on 40m and things worked well. Later in the evening we tried QSYing to 80m on the Force 12 Sigma 80 antenna. Uh-oh, major noise problem. We were receiving what sounded like white noise all across the 80m band at 20db over S9. That is not a condition you can work many stations. I had personally measured the noise level for 80m twice the week before Field Day. Once with a small whip antenna and heard no noise.

More >>>>>

Field Day report, continued

Thinking the antenna was too inefficient at that frequency range, I checked the next evening and used the endfed antenna draped over the CG's Fan Dipole. I still heard no noise (S2-S3). Bob and I tried to find the source of the noise. At the circuit breaker box, we turned off all exterior lights. The noise was still there. Thinking maybe a bad ballast or whatever, we turned off all the interior lights. That too made no change. The noise was not present in the daytime, so we can also eliminate noise emanating from the generator.

We know there is a strong signal around 5.2 MHz, but that didn't sound like the same kind of noise. We never found the source of the noise and therefore were unable to use the 80m band. We also were unable to evaluate the usefulness of the Force 12 Sigma 80 antenna, which the club was considering to buy from Bob, if it worked well.

Other than the setback with noise on 80m, Field Day operated perfectly. The club's new Hexbeam worked great. Flat SWR across the bands (20m-6m) and good results with it on the CW/FT8 station at 100 watts. The phone station ran 500 watts and used the 2 element beam with excellent results.



As 2pm on Sunday approached, the official end of Field Day, lots of club members showed up to do the 'dirty work' of taking down the an-

tennas, rolling coax, and packing away the radios and accessories until our next event.



All in all, membership turnout for setting up, operating, and taking down the station was outstanding. Many thanks to all that lent a hand in one way or another. Without the willingness and teamwork displayed by members, Field Day would have been a big flop. I know I haven't named every individual that helped at Field Day, mostly because there were so many helping that I couldn't possibly remember what everyone did. Please know everyone's help was appreciated and noticed.

Now the numbers: the CW station made 244 contacts, on digital (FT4/FT8) 160 QSO's were logged, and the Phone station made a whopping 908 contacts for a total of 1312 QSOs on our two official transmitters. By far, 20 meters was the most productive band with 15 meters coming in second. With those contacts, plus VHF, satellite, and GOTA QSOs, we made a total of 1716 operational points. We gained another 1570 bonus points

for a grand total of 3286 points recorded with ARRL. Last year we were using three stations and our score was 3750. Considering we had 50% more transmitters on the air last year, and made less than 500 more points than we did this year, I'd say we did an excellent job. Thinking back to our first Field Day in 2017, we have come a very long way and it's all good. I'm confident that next year will be even better.

73, Frank Wroblewski, W2XYZ

[And now, more photos of the festivities. ... de SY]



Steve, NS4P celebrating a satellite contact.



Still more >>>>

More Field Day



Quartermaster's report by Richard MacCready, KK4AHZ

1. Most boxes now have labels.
2. The bracket on the rolling door removed to allow for the placement of the table on the right side.
3. The three empty boxes on top of the tan rack on the right side are TARC boxes, along with "For Sale" items.
4. All Field Day items are on the chrome rack or on the bottom two shelves of the beige rack.
5. The top three shelves of the beige rack are TARC items not used for Field Day.
6. The "Andy" antenna and the ground rods are stored between the chrome and beige racks.
7. The Projector screen is easily accessible.
8. Old magazines were scrapped, but QSL cards were kept.
9. The three new 12 gauge 50' extension cords now have the green TARC velcro straps on them.



[As noted by Paul in his President's message, "The TARC Tool Crib (TTC) program for loan of club equipment to members has been rolled out, and information about it can be found on our website at <https://tamiamiarc.org/tarc-tool-crib/>.]

WELCOME NEW TARC MEMBERS

June 6, 2023	Member	Jack Maguire	AE9I	Extra
June 24, 2023	Member	Mayra Ortega	WP4OKB	Technician
June 30, 2023	Member	David Hall	KC4ODI	Extra

15th Annual 13 Colonies



Special Event

JULY 1ST - 7TH 2023

by Frank,
W2XYZ

Does Great Britain have a Fourth of July? Of course they do, it's between July 3 and July 5. Many Americans celebrate the Fourth, or more politically correct, Independence Day, with fireworks, pool parties, and barbecues. Hams do things like that too, but some take it a step further. A group of Hams in 2012 (I think that's when it was) started a special event celebration to remember the original 13 colonies that became the United States of America. From July 1 through July 7, designated representatives from each of the original 13 States get on the air with a K2A through K2M call sign and makes contacts worldwide. To show no hard feelings, even Great Britain gets into the event with a GB13COL call. Our Revolutionary War ally, France, participates too with TM13COL. Philadelphia, known for great cheesesteaks and home of the First Continental Congress participates with a special call sign of WM3PEN.

Many of us club members have been chasing the 13 Colonies for several years. On a friendly basis, we would goad each other with, "How many have you worked?" or "I got the Great Britain station last night, how about you?" I wish I had thought of this idea sooner, but it didn't occur to me until the very beginning of the special event. I thought enough of this friendly goading, let's go for blood and make it a real competition with the winner receiving a prize. The club's president, Paul, KN4BAR, liked the idea (that is he liked the idea of a competition, but frowned on the blood-letting) and approved it as a club activity.

I quickly came up with some rules or guidelines for the "TARC 13 Colonies Challenge." The idea was to work as many of these special event stations as possible during the one week they were on the air. They could, and should, be worked on as many bands as possible and in any or all of the three modes available. Duplicates (dupes), meaning the same station on the same band with the same mode is not allowed. Sixteen special event stations on nine different bands (160m-10m minus 60m) times three different modes (SSB, Digital, CW) yields a possibility of 432 contacts. To level the playing field a little, I thought we should do as they do in major contests. That is, assign a multiplier of 5 if all contacts are made at QRP level. Assign a multiplier of 2 if all contacts are made at 100

watts, and a multiplier of one for power higher than 100 watts.

Although the TARC 13 Colonies Challenge was announced rather late, without giving members time to plan or prepare for the event, we still had 11 club members accept the challenge. Feedback I received from several members spoke of the fun it was to try to get a better score than the 'other' guy. Scores were submitted to me by midnight on Sunday, July 10.

I was pleasantly surprised on how well many members did. One member currently not living in Florida, used the club's Remote HF Station to contact colonies, and he did well. Since there can only be one winner (unlike little league baseball), I examined the scores and announced Al Culbert, K0AL, to be the first place winner of the First Annual TARC 13 Colonies Challenge.

When I thought I might win the challenge, I was suggesting the winner receive and all expense paid dxpedition trip. As my hopes faded by better operators with more dedication than me, I suggested to the board the club should purchase a plaque commemorating the challenge and have rows of plates below it where each year's winner could have their name/call engraved. They agreed and such a plaque will be ordered.

Here's a warning. Get ready, we are going to do this again next year.

And the winners are:

First Place won by Al, K0AL with 97 points.

Second Place is Steve, NS4P with 47 points.

Third Place is Jack, W1JJR with 42 points.

Our other participants also did well with two members even having the same score. Kudos to all that tried. A list of the challengers in alphabetical order by call sign is below.

K4EU Steve Hawley	W1JBD Brian Jacobson
K0AL Al Culbert	W1JJR Jack Rosen
KN4BAR Paul Nienaber	W2GAN Alex Gan
KO4YAX Shaun Helgesen	W2XYZ Frank Wroblewski
KQ4DEP Tom Potts	W3APC Jim Cook
NS4P Steve Phillips	73, Frank, W2XYZ

Editor's note: Since there are no TARC meetings in July or August, minutes of the June 8th meeting will be published in the September issue of The Communicator.

Art Wester, K4NUM, elected Secretary of TARC - Steps up to fill vacancy

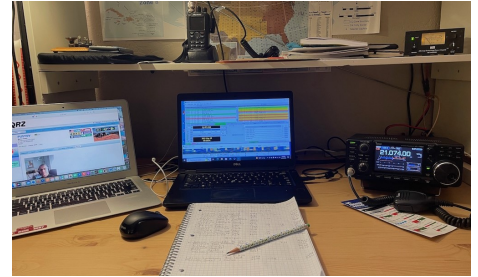


I got my start in the late 1950's when Ed Earnshaw, W2OAC,

* * * * *

came to our Boy Scout meeting in North Haledon, NJ to teach Morse Code. Within a few months Ed "Elmered" me through my Novice and Tech licences, WA2GMA. Then college sports, girl friends, skiing you've heard the story. Life has slowed down, so in December 2021 I got my tech license, followed by my general in January 2022 and my Extra in May of 2023. I joined the Tamiami Amateur Radio Club (TARC) in Sarasota Country. A terrific group of guys who have been very encouraging and nurturing.

My shack is quite modest, Icom 7300 transceiver, and iPad for



QRZ, a Dell laptop to run FT8, and an SE HF 360 vertical with its base mounted 15' above ground. I live in a condo with many restrictions, so the antenna goes up or down in a few minutes.

My other interests include kayaking and canoeing, photography and cycling.

73, Art, K4NUM

Gary Youngberg, W8SKI, steps down as TARC secretary - Resigns to address medical issues

Gary Youngberg, W8SKI, was born at Sarasota in 1954 and grew up here in Venice. He entered the first grade at Venice Elementary in September 1960, the same month and year that Hurricane Donna came by here.

At an early age he became interested in the U.S. Space Program when Alan B. Shepard and John H. Glenn made their initial space flights, and was hooked by NASA ever since. As a second grader, he witnessed one of the Mercury lift-offs from the playground at the Venice Elementary School.

As time went on, he became a fifth-grade student of Joe Barone, W4DSH, his science teacher and station engineer at Venice's own radio station, WAMR-AM (1320 KHz). (Joe was one of the founders of the TARC, which chartered in November, 1960, following Hurricane Donna).

Gary and his family also knew Elihu B. Roberts and George Boyd, M.D., charter members of the TARC.

Later at High School (1969) in Venice, Gary was one of the audio-visual kids, helping with filming, projectors and audio/video recordings. He also helped with the sound-only system at the Venice Presbyterian Church. He graduated from Venice High in 1972.

In the fall of 1972, he enrolled at the Moody Bible Institute to study broadcast engineering, as

shortwave radio was the primary international broadcasting method during the pre-internet years.

In 1978, Gary located to Cincinnati, Ohio to pursue a small business opportunity, and while there, passed the no-code Technician's test in 1994, and was licensed as KB8SKI (now W8SKI).

In 1981, Gary signed up for a four-month term of technical assistance to the Sudan Interior Mission in Niger, West-Central Africa. Most of the project involved local electrical distribution for on-site compound generators.

While visiting Venice, Gary joined the Tamiami ARC originally in October, 1995.

Gary retired from Ohio in 2017 and returned to Venice full time, and became a staff member at Venice Presbyterian in 2019, working mostly with audio and media engineering.

TARC thanks Gary for his 1 1/2 years of service as Secretary, and we wish him well.



Sub-QRP WSPR Magic w/A whopping 3 milliwatt output!

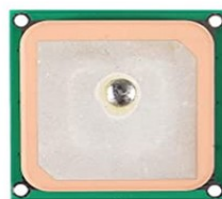
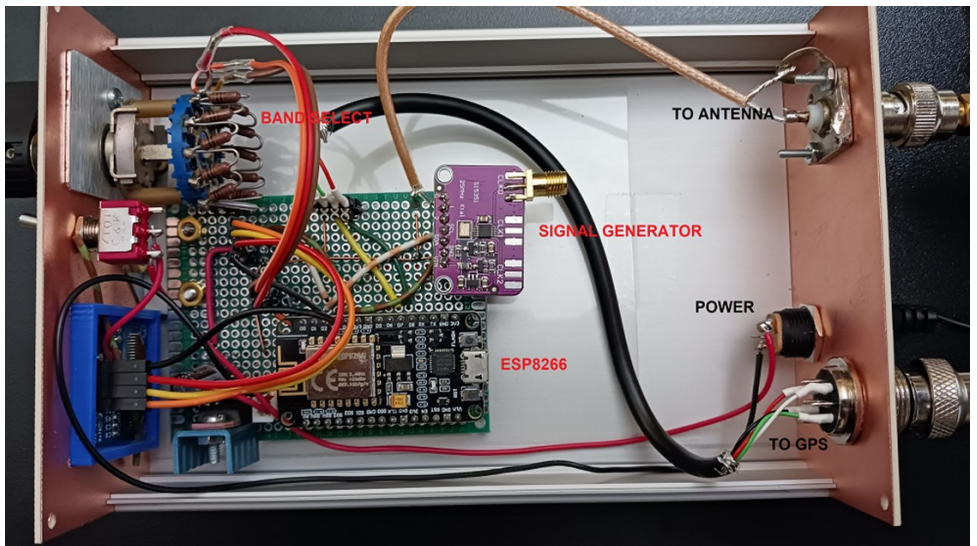
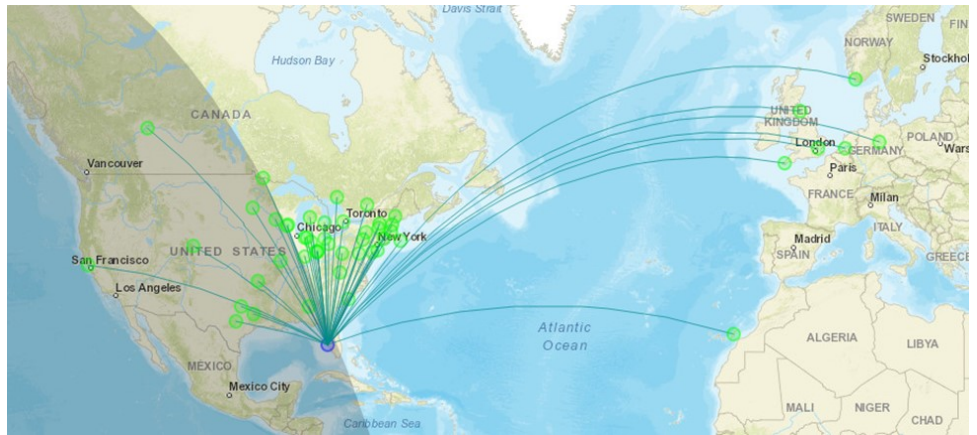
by Tom, K7ONE

My previous WSPR experience, based on a QST article, (see Jan. 2022 Communicator) used a computer to command the WSPR signals to some external hardware. A desire to go mobile and self-contained (without computer) led to an interesting challenge. Time synchronization. The WSPR transmission starts one second after the even minute mark.

There are some small microcontroller boards, other than Arduino, that can be programmed as you would program an Arduino. The ESP32 and ESP8266 being the most popular. One of their big advantages is onboard Wi-Fi. I am a terrible programmer so I look for examples from those much more skilled than myself. The first example tried used Wi-Fi to time sync from a time server, just like your computer does. It worked! But – not really self-sufficient since it relied on a Wi-Fi connection.

So - Let's get time from outer space! For \$7 you can get a GPS receiver and patch antenna that outputs serial data, including a great time signal. After several hours scratching my head, I was able to combine the WSPR'ing example and a GPS clock example to make it work.

Hmmm? Now that GPS is used, it also provides location – so let's calculate the Maidenhead grid square that gets included in the WSPR transmission. This way it will automatically configure the transmission text, no matter where the transmitter is used. Since there was a tiny OLED display in the junk box, and it uses very little power, it was added as an indication of UTC time, how



GPS Receiver and Antenna

many satellites are being tracked, the band in use, the calculated grid square, and the current transmitter status. Good to know type stuff. Future improvements may include a switchable low pass filter. I will post a crude schematic and program to the TARC website Elmer page for the brave tinkerers among us.

Special thanks to Chet KG4IYS for helping with some coding and education.

What's really amazing – With all the RF noise being generated these days, a 3 milliwatt signal can still travel thousands of miles and be deciphered!



Conrad Owens, WA3RRS, granted Life Membership in TARC

The TARC bylaws state in Article III—5 d “Honorary Life Membership may be granted, by vote of the club, to those members in good standing who may no longer be able to attend meetings, or who have performed some exemplary service to the club. Such Life Members shall have no further obligation for annual dues.”

Conrad Owens, WA3RRS, and XYL, Lenée will be moving to Ohio in October, and will be unable to attend meetings. Conrad served as president of TARC for two years 2006 & 2007. At the May 10th meeting he was elected to Life Membership. Here is Conrad’s story in his own words: de, K3SY



I was first licensed in Ohio 1957 as a proud Novice with the call KN8HVI that I could send at blinding speed while struggling to copy 10 WPM. A Hallicrafters S40B and a WRL Globe Chief 90 served me well until I blew up the Chief and, as a result, flunked my General code test due to lack of activity.

After college and getting married, I was teaching clarinet at Mansfield University in PA when the ham bug bit again, and I got licensed as WA3RRS in 1971. I later got my Extra and also a First Phone commercial license so that I could engineer the college radio station.

I have through the years enjoyed many facets of ham radio including RTTY (worked RTTY pioneer Byron Kretzman on the green keys), CW, DX, Navy/Marine Corps MARS (NNN0SKM) and my greatest love, Boat Anchor AM. At one point, I had over 2,000 vacuum tubes and 11 AM stations on the air.

After retiring from Mansfield in 2004, I sold most of my equipment and we moved to Venice. My XYL, Lenée, and I loved living in “Paradise” and enjoying the friendship of a great bunch of guys in TARC, EARS, and QCWA as well as all the Arts organizations and Audubon activities.

I became president of TARC shortly after joining the club. Apparently, there had been a big kerfuffle shortly before I came on board that might have had something to do with my sudden elevation to high office. I really enjoyed our TARC meetings, setting up a demo station at Pineview, doing communications for the Sharks Tooth Festival, and of course, breakfast at Mel’s, Dennys, and Peaches. It was always fun help-

ing new hams get started. As I recall, Jack Gaddas, KY1Z and I spent about a week assembling a hex beam for Bruce Brown, WA8IQF— not an easy job in a small yard littered with deposits from Bruce’s two large dogs.

I remember signing the initial agreement for the TARC antenna site on Paul Morris Drive, periodically testing the generator, and experimenting with digital modes using the remote station there.



Conrad signing the initial repeater tower agreement

Unfortunately, a move to a condo in Sarasota took me off the air, but didn’t stop me from still enjoying ham activities. After our move to Ohio in October, I may get back on the air, since antennas are permitted where we will be living. If so, I’ll be looking to make some fresh TARC contacts and maybe see some of you at the Hamvention in Xenia.

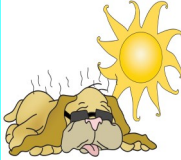

73, Conrad, WA3RRS

Best wishes from TARC as you embark on your next chapter!





~ July/August, 2023 ~

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		11 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	12 ~ See Groups.IO for ZOOM sign-on NO TARC MTG	13 * 2 meter net 7:30 PM followed by + 10 meter net	14 Breakfast @ Perkins 9AM	15 Breakfast @ DAV 9:30 A
16	17	18 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	19 ~ Virtual breakfast via ZOOM 10 AM	20 * 2 meter net 7:30 PM followed by + 10 meter net	21 Breakfast @ Perkins 9AM	22 Breakfast @ DAV 9:30 A
23	24	25 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	26 ~ Virtual breakfast via ZOOM 10 AM	27 * 2 meter net 7:30 PM followed by + 10 meter net	28 Breakfast @ Perkins 9AM	29 Breakfast @ DAV 9:30 A
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6	7	8 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	9 ~ Virtual breakfast via ZOOM 10 AM NO TARC MTG	10 * 2 meter net 7:30 PM followed by + 10 meter net	11 Breakfast @ Perkins 9AM	12 TARC VE session @ Venice Library 10 A BOD 1P
13	14 DARN net 11:00 AM Starts on NI4CE/rpt 145.43 pl100	15 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	16 ~ Virtual breakfast via ZOOM 10 AM	17 * 2 meter net 7:30 PM followed by + 10 meter net	18 Breakfast @ Perkins 9AM	19 Breakfast @ DAV 9:30 A
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DMR net on W4AC UHF repeater - 444.10 MHz - Talk Group 310442
 * 2 meter net on W4AC VHF repeater - 146.805 MHz, (-), PL 100 or W4AC-R EchoLink
 + 10 meter net on 28.460 MHz +/- 10 MHz (depending on band activity) immediately following 2 M net.

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: Paul Nienaber, KN4BAR, Art Wester, K4NUM, Gary Youngberg, W8SKI, Tony DiCenzo, KX1G, Frank Wroblewski, W2XYZ, and Tom Babcock, K7ONE.

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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Treasurer

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TAMIAMI AMATEUR RADIO CLUB, INC. - Membership Application

NAME _____ Call Sign _____ Class _____ ARRL ? Yes ___ No ___

2nd Fam. Memb. [or YL/OM] _____ Call Sign _____ Class _____ ARRL ? Yes ___ No ___

LOCAL ADDRESS _____ CITY _____ ZIP _____

PHONE _____ CELL _____ e-mail _____

SUMMER ADDRESS _____ CITY _____ STATE _____ ZIP _____

PHONE _____ ALT. e-mail _____

Application date _____ PAYMENT: Amount _____ by: Check ___ Cash ___ PayPal ___ First year free ___

For payments by mail send to:
TAMIAMI AMATEUR RADIO CLUB, INC.
 PO Box 976
 Nokomis, FL 34274

Dues:
 Regular member: \$25.00/year
After 6/1 - \$12.00 to year end. After 10/31 \$25.00 thru next year.
 Family membership: \$30.00/year. Non-voting student: \$5.00/year.
 New licensee: Tested by TARC VE- 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: <https://www.tamiamiarc.org>

Contact: Secretary, Art Wester, K4NUM - secretary@tamiamiarc.org

