

The Mike & Key

Volume 83

Winter 2019.

Issue 1

Greater Cincinnati Amateur Radio Association, Inc.
82 years of service to the Greater Cincinnati Community

Congratulations



To the Newly Elected
officers of the GCARA



Meetings

4th Wednesday

Maple Knoll (Breeze Manor)
11200 Springfield Pike,
Springdale, Ohio

(Take Maple Trace Dr. off Springfield Pike)
 If the Main Door to the Breeze Manor is locked, please use
 the Communication Device located near the entrance to
 request entrance to the building.

UPCOMING MEETINGS

November - February...NO MEETING

March 27

April 24

May 22

June TBA...Picnic

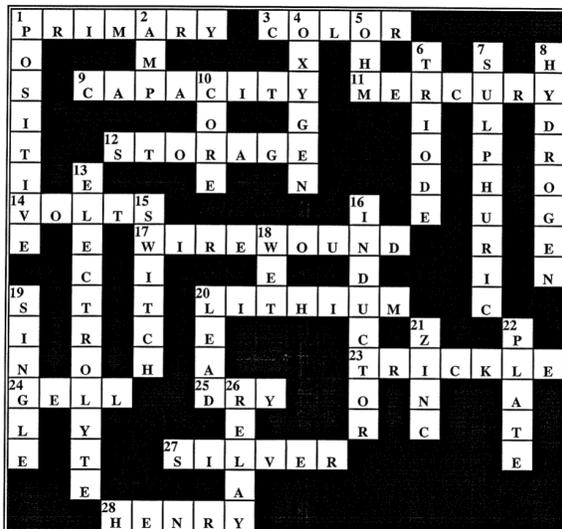
July 24

August 28

September 25

October 23

SOLUTION



Published bi-monthly by the
 Greater Cincinnati Amateur Radio Assoc. Inc.
 Submit ads and news to the editor
 Deadline: forth Wednesday of the month

Editor: David Self, K8SSN
 3261 Old Oxford Rd.
 Hamilton, Ohio 45013
 tm&k@gcara.org

Reprinting, from *The Mike & Key* is granted to amateur
 radio publications provided credit is given to the
 original author and *The Mike & Key*.

GCARA Officers & Committee Chairs

PRESIDENT: Neal Berter, N8QFZ
 nberter@cinci.rr.com
1st VICE PRES: Rick Burdick, K8WWA,
 (513) 554-4662, rickburdick@yahoo.com
2nd VICE PRES: Donald Ferneding, N8LMJ
 n8lmj@arrl.net
RECORDING SEC'Y: Allan M. Hale, WA9IRS
 (859) 525-1761, wa9irs@arrl.net
CORRESPONDING SEC'Y: Richard Pestinger, KC8RP
 (513) 829-8807 kc8rp@arrl.net
TREASURER: Gary Osborne, W8XS
 (513) 675-1574, osborne@fuse.net
REPEATER Trustee: JAY PARKS - N8JP
HAM HELP/EQUIPMENT SUPPORT:
 Richard Pestinger, KC8RP
 513-829-8807 kc8rp@arrl.net
HISTORIAN: VACANT
THE MIKE & KEY: David Self, K8SSN,
 tm&k@gcara.org
WEBMASTER: David Self, K8SSN
 webmaster19@gcara.org
MEMBERSHIP: Richard Pestinger, KC8RP
 (513) 829-8807 kc8rp@arrl.net
SCHOLARSHIPS: Rick Burdick, K8WWA,
 (513) 554-4662, rickburdick@yahoo.com
VE TEAM: Gary Osborne, W8XS
 (513) 474-0287, osborne@fuse.net

ARRL

Great Lakes Director: Dale Williams, WA8EKF
 (734) 529-3232, wa8efk@arrl.org
 Ohio Section Manager: Scott Yonally, N8SY
 (419) 512-4445, n8sy@n8sy.com

W8DZ 2M REPEATER :

145.27MHz -600
 TONE: 123Hz
 (set 123hz for recieve
 to eliminate the QRM from DARA D-Star)

1936 Net

1.936 MHz, Thursdays 9:00pm
 Net Control:
 Jay Adrick, K8CJY / Geoff Mendelhall, W8GNM

DONATIONS TO THE GCARA may be tax deductible.
 Contact the treasurer for information

Meeting



Minutes

Subject: October Membership Meeting
Date: October 24, 2018
Location: Maple Knoll Village, Breeze Pavilion
Time: 7:00 PM

Participants:

President - Neal Berter, N8QFZ Present Vice Pres. - Rick Burdick K8WWA Present Second VP – Don Ferneding, N8 LMJ Present
Treasurer, - Gary Osborne, W8XS Present Corresponding Secretary, and Membership – Richard Pestinger, KC8RP Present
Recording Sec. - Allan Hale, WA9IRS, Present

Meeting commenced: at 7:00 PM

Call to Order: - President Berter

Pledge of Allegiance.

Pledge of allegiance, for all members present

Introductory remarks by President Berter

Neal thanked all in attendance.

Announcements – Neal reminded everyone present about the Meeting Sign-up sheet that is available for all to sign on the front table. Remember that all members present should sign in on the sign up roster to obtain credit for attendance at the meetings which impacts the amount needed for the December Christmas Party event on December 12th.

Financial Report – Gary commented that the monthly summary for the club remains positive for the clubs funds. There was a notice in the Mike & Key last month indicating that the M & K would no longer be published on the internet as a free document. You need to be a paid up member to receive the M & K. Gary mentioned that this posting last month has resulted in a number of checks for dues received from members who were not current with the club dues.

Mike & Key –The Mike & Key is posted on the webpage. As mentioned above the staff and officers have decided that the Mike & Key will no longer be posted on the webpage but rather it will be mailed out to the paid membership as a benefit of their club membership. If you want to receive the Mike & Key, please pay your membership dues.

Membership – Richard indicated that we currently have 39 paid up members in the club as of this evening. He also mentioned that he expected several additional members as the result of dues payments to receive the M & K. Please don't forget that quite a number of 2017 members still have not paid their **2017 dues** as of this printing. Please remember to support the club with your dues payments to allow us to continue with the activities that the club sponsors. Please support the GCARA with your membership.

Christmas Party – The GCARA Christmas Party is scheduled for December 12th at the Manor House Restaurant. Do not forget that those of you who have attended the membership meetings will receive a percentage off on your dinner ticket cost based on your percent of attendance at the clubs meetings and events. Reservations are now being taken. Contact the club to be sure that you are counted for the Christmas party.

Meeting Minutes – For the July meeting is published in the GCARA Mike & Key.

Silent Keys. None reported for the period.

Repeater Progress- Don commented that the repeater is up and running. Give the club machine a try. Remember it is at 145.270- with a PL of 123. A work party is scheduled for Friday at the Repeater site to winterize the area as well as to check for a possible leak in the ceiling.

GCARA VE Session – Rick and Neal both mentioned that the past June GCARA VE test was very successful this past month. The last VE session is scheduled for the week prior to the Christmas Party. This will be held at the Blue Ash Recreation Center. Rick mentioned that applicants should remember to bring two forms of identification for the exam session.

Other Business

Further Comments?

There being no additional business, adjournment for the evening. We had a club visitor from the Atlanta Georgia area this evening, Mr. Mark Weber, KX4MZ. Thank you for coming and glad to have you visit with us this evening!

Neal wished all present a good evening and the membership adjourned to camaraderie with other members.

Adjournment at 8:14 PM

Respectfully submitted,

Allan Hale, WA9IRS

Recording Secretary

Make ham radio a habit

By Dan Romanchik, KB6NU

Every week, I get an email newsletter from Penguin Random House called *Signature*. *Signature* includes links to articles about books and writing. Being a writer, I clicked on the link to "5 Good Writing Habits You Need to Learn Now." As I was reading the article, it occurred to me that the advice could also apply to amateur radio.

So, with apologies to the author, Lorraine Berry, here are five things you can do to make ham radio a habit:

1. **To get on the air more, or to do more building, set up a time to do it.** If you enjoy getting on the air or homebrewing, but never seem to be able to find the time to do it, you need to put it on your schedule. Set aside the time a couple of days, or a week, or even a month in advance, and you'll be more likely to do it. If you set up a regular time every week, pretty soon it will be a habit.
2. **If ham radio is important to you, create an environment that encourages you to do ham radio.** To make ham radio a habit, you really need a place that's set up to do ham radio. If you have to dig out and set up your equipment every time that you want to get on the air, you're just not going to do it. You need a "shack" that makes it easier for you to engage in the hobby. Richards, K8JHR, gave me some great advice back in 2012 on where and how to set up a shack (<https://www.kb6nu.com/building-a-new-shack/>).
3. **Create temptations that reward you for your new habit of ham radio.** For me, being able to make interesting contacts, or building some new gizmo, is reward enough, but you may want to reward yourself with a beer or some ice cream after an operating session.
4. **Make it easy to do what you like to do.** This is related to #4. Your shack should have everything

you need to easily do whatever ham radio activities you enjoy doing. If you enjoy operating, then it should have a nice operating desk. If you enjoy building, then set it up so that all of your tools are readily accessible. The easier it is to do, the more likely it is that you'll do it. If you enjoy operating portable, then build up a kit that has all the stuff you need, and have it ready to go when you're ready to go.

5. **Start with the Two-Minute Rule for new habits and continue from there.** The "two minute rule" (<https://www.lifehack.org/articles/productivity/how-stop-procrastinating-and-stick-good-habits-using-the-2-minute-rule.html>) is a tool to help you overcome procrastination. The idea is to allot just two minutes to a task that you'd like to complete or a skill that you'd like to develop. It's a small commitment, but enough to get you started, and the idea is that once you're started on a particular task or project, continuing work on that task or project becomes a lot easier. Those two minutes could easily become a half hour or an hour once you've gotten the ball rolling.

Armed with this advice, I'm expecting you to be a more active ham in 2019. I'll be listening for you on 40 m.

=====

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and one of the hosts of the No Nonsense Amateur Radio Podcast (NoNonsenseAmateurRadio.Com). His wife sometimes thinks that amateur radio has become too much of a habit for him.

1936 Net



**Thursday's 9:00pm
1.936 LSB (160M)**

1936 GCARA NET CONTROL STATIONS

NCS FOR THE GCARA 1936 NET ARE AS FOLLOWS

2019 Net Controls...TBA

CO-NET MANAGERS: Jay Adrick, K8CJY & Geoff Mendenhall, W8GNM
Don't have an antenna for 160? Check with any of the above.

NOTE: THE 1936 NET IS THE OLDEST CONTINUALLY RUNNING NET
ON SSB AND AM.



Welcome to 2019! Starting with this issue the GCARA has returned to snail mail for dishing out *The Mike & Key*. This was due to we had a lot more notices to inform member that *TM&K* was online than we had members. Since *TM&K* is published as a benefit to members, the Board decided that snail mail was our best option. At least for now.

Anyway, I am looking for a new editor, if you are interested in doing something for the good of the club. It is not hard task and I have been doing it for 15 years and think it is time for some new blood. So, if you are interested you can contact me at tm&k@gcara.org.



GCARA 2019 Membership

The board of directors and staff have decided that yearly dues will be due at the picnic. Current paid up members will be extended to June 2018. New members: if using PayPal, please put Name, Call address, etc in the message box or send email to w8xs@arrl.net



History of the GCARA

by Al Haller W8PBX (SK)
Reprinted from TM&K Feb 2005

History making on the GCARA and the 1936 is a fast biz these days so fast that I have to move quickly to keep up with it!

AM Nite on the 1936 net was a success with a lil over 32 or so check in stations I gave the check in list on my last report, it wasn't too complete so I'll attempt to review. A variety of rigs and receivers were listed. Some of the most interesting boat anchors consisted of WW2 vintage. Then, the Johnson Viking Series. Followed by modern rigs operating on AM. There was no mention of a home brewed rig! "TR" of WR4T gets the high mark for having 5 different rigs operating on the net, one after the other. One old rig from WW2 was made by the Crosley Corporation. We had a good sounding converted broadcast rig from the old Gates Radio Company @ 500 watts. Many were using broadcast mikes which added to the audio quality of the stations checking in. It was noted that distortion due to selective fading or skip was more present on the AM mode. If you live about 15 miles or more from WCKY on 1530 you can hear an example of this

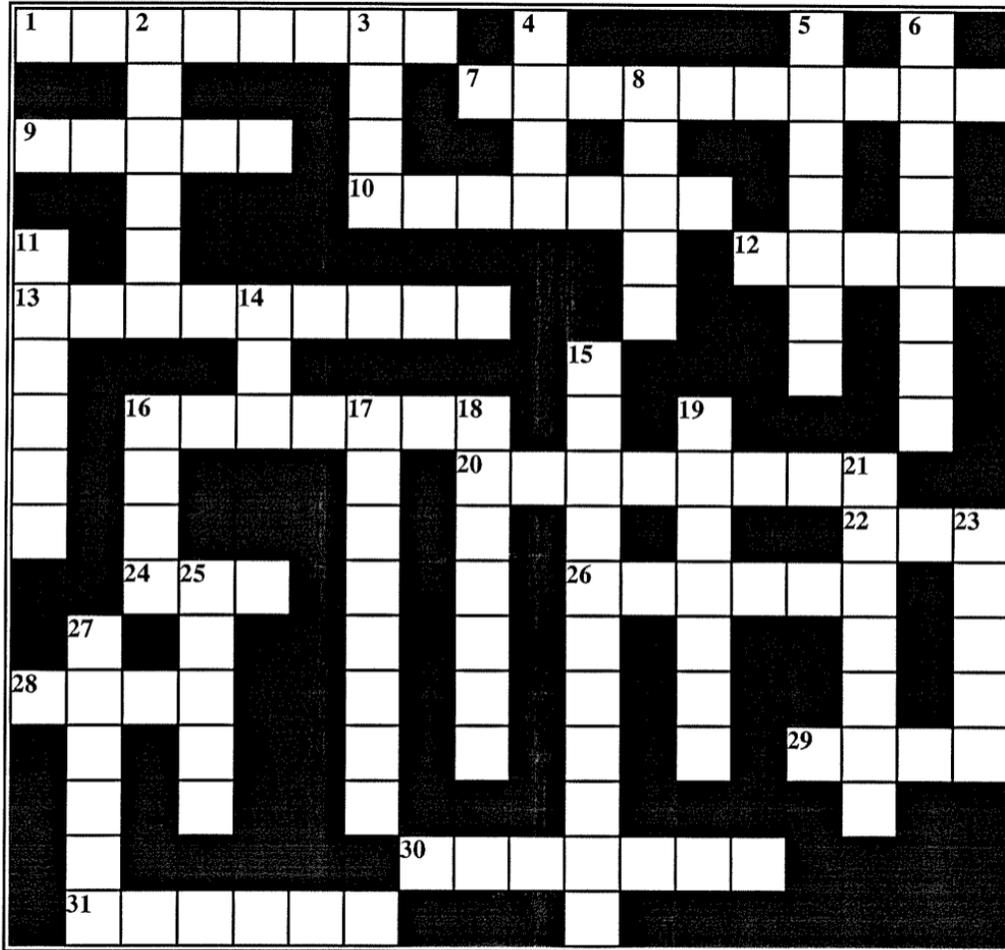
starting about 6 or 7pm nightly. This event has grown from a local event to a regional event in a few short years. The manager of the event has been Bill, NM4A.

We missed our link up with the Ensor Museum folks this year but look forward to it again this year. They are growing strong at the old Ensor Farm out in Olathe Kansas. If you plan to visit out that way this year let me know and will give the web site.

The other event that some of us attended was the January 15, The Nineteenth Annual Southwest Ohio Digital Symposium at Middletown Campus of Miami University as produced by Carl Morgan K8CM and Hank Greeb N8XX. We were informed of progress in the various digital modes CW,RTTY,Packet, Amtor.Meteor Scatter FSK411 and working demos on linking computers to the internet, and a demo on SWR and tuning the antenna. All should want to attend this one next year !

**The roundest knight at king Arthur's round table was Sir Cumference.
He acquired his size from too much pi.**

PORTABLE POWER



ACROSS

1. Expendable batteries that can't be charged easily
3. A code made of stripes used to mark resistance
9. The amp/hour rating of a battery is this
11. A battery type, a planet, a toxic liquid metal
12. Batteries that can be left charged a long time
14. The measure of electromotive force in batteries
17. A resistor made by winding wire on a form
20. Long life battery used in watches and computers
23. Charger that puts only a little energy into cells
24. Cells with an electrolyte like Jello
25. Cells without liquid electrolyte
27. _____ oxide batteries, chemical symbol Ag
28. Basic unit of inductance

DOWN

1. The + side of a battery terminal
2. ____/hrs is a rating of the capacity of a battery
4. A gas formed during the charging of a wet battery
5. Basic unit of resistance

6. Vacuum with three (3) active elements
7. Acid used as electrolyte (H₂SO₄)
8. One gas produced when charging a wet cell
10. Material in the center of an inductor coil
13. Liquid between the cells of a wet cell battery
15. A device used to connect or disconnect contacts
16. Made of a coil of wire on a central core
18. Cells with quantities of liquid electrolyte
19. Double throw, _____ pole (DPST switch)
20. acid batteries with metal plate made of Pb
21. Metal used in one type of primary batteries
22. The metallic sheet on one side of a wet battery
26. A switch that can be remote controlled

Solution found on
Page 2

© 2017, Allan Hale, WA9IRS

Member's Mart

FOR SALE: HEATHKIT LINEAR AMPLIFIER, MODEL SB 220, FOR \$250. Linear Amplifier has seen only limited use. Operate the Linear Amplifier with AB8RW's station, before you buy . Local pickup only.
AB8RW@AOL.COM 513-583-8440 Ray Wiltshire

Send ads to tm&k@gcara.org. Ads are free to members and subject to editing.
Deadline: last Monday of the month. Ads will run for two issues, unless otherwise requested.

TM&K ads usually work. If they don't, consider donating to the GCARA Equipment Support Committee.
Donations may be tax deductible.

Tips for New HAMs

by WB6KHP

Guide to Choosing Your First Radio: (part II)

Handheld FM Transceivers

Handhelds tend to be fine transceivers for light emergency communications and public service events. The limited power of a handheld also means limited range, which may be OK for in town events, but problematic for more wide spread or regional events. Handheld range can be extended with aftermarket antennas and amplifiers, in fact a good aftermarket antenna is recommended for emergency communications, even if you can access the local repeater just fine on the stock antenna, a more efficient antenna may allow you to use lower power, and give you a greater simplex range.

Handhelds don't offer much in the way of technical challenges. They are mostly just a buy it, turn it on, and use it sort of thing. I suppose that one could build a few items such as an antenna, packet interface, or

maybe a solar charger for their battery, but there is only so many technical projects you can squeeze out of a handheld.

One thing that handhelds are not good for is rag chewing. The reasons are obvious to the seasoned operator, short battery life, limited range, and most modern handhelds get pretty hot, especially when running from an external power source.

You wouldn't think a handheld would have anything to do with DX, but my very first DX (if you call Porto Rico DX) was with a dual band handheld via satellite. Operating satellites with a handheld typically means standing outside in the elements, which may not be appealing to some.

There is also echolink, while calling echolink DX is up for debate, the fact that one could walk down the sidewalk in the US and have a QSO with a ham operating from Germany can't be denied.

DX happenings..

February							
2019 Feb02	2019 Feb13	Costa Rica	T15	LotW	AA1M 20181208	By AA1M as T15/AA1M and W1USN as T15/W1USN; HF; CW SSB, some digital, perhaps FM satellite; QSL also OK via AA1M, W1USN respectively (Buro or direct)	
2019 Feb04	2019 Feb10	Bonaire	PJ4	LotW	TDDX 20181228	By WW4LL NN9DD as PJ4/WW4LL and PJ4/NN9DD, respectively; QRV for CQWW WPX RTTY using PJ4Z; QSL also OK via K4BAI, but LotW preferred	
2019 Feb05	2019 Feb18	Vietnam	XV9	LotW	TDDX 20181224	By SP2FUD as XV9FUD and SP2GCJ as XV9ZT; CW SSB + digital; 500w; yagi; QSL also OK via SP2GCJ (Buro or direct)	
2019 Feb07	2019 Feb18	Brunei	V84SAA	TBA	TDDX 20181221	By K1LZ JT1CO K1ZM KK1ZM PY5EG VK3FY LZ1NK KO8SCA S55M RN5M 9M6KOM RW9USA LZ2HM fm Istana Pantai, Tutong District; focus on low bands; verticals on 160 80m, 4-square on 40m; beachfront location	
2019 Feb11	2019 Feb25	St Kitts & Nevis	V47KA	LotW	K1KA 20181115	By K1KA; @V47JA; 160-10m, perhaps 6m; focus on FT8 (not Fox-Hound); vertical; QSL also OK via K1KA direct	NG3K
2019 Feb11	2019 Feb26	Macao	XX9D	LotW	TDDX 20180829	By XX9LT + 14 op DL/OZ team; 160-6m; CW SSB FT8 RTTY; focus on 160-40m for NA; QSL also OK via DL4SVA (DARC Buro or direct), see Web for full details	NG3K
2019 Feb12	2019 Feb26	Jamaica	6Y NEW	eQSL	DXW.Net 20190112	By G0RNU as 6Y/G0RNU; @6Y5NZ; HF; spare time operation	NG3K NG3K NG3K
2019 Feb15	2019 Feb17	Ogasawara	JD1BLY	J15RPT	J15RPT 20190106	By J15RPT fm Chichijima I (IOTA AS-031); 630-6m; CW SSB + digital (630m will be JT9); QSL OK via JARL Buro or direct, also eQSL; Twitter updates	NG3K NG3K NG3K NG3K NG3K
2019 Feb15	2019 Feb18	Monaco	3A NEW	LotW	TDDX 20190109	By EA4NF as 3A/EA4NF; 20m; 5w; end-fed dipole; also satellite	NG3K
2019 Feb15	2019 Feb22	El Salvador	YS2	KC0W Direct	KC0W 20181018	By KC0W as YS2/KC0W; 80-6m; CW; 1kw; phased verticals; focus on EU/JA	NG3K NG3K
2019 Feb15	2019 Feb25	Burundi	9U4RI	M0KRI Direct	DXNews 20181130	By M0KRI; 40 30 20 17 15 10m; CW SSB PSK31; see link for QSL address	NG3K
2019 Feb16	2019 Feb23	Gambia	C5DX	LotW	G4DJX 20190104	By G4DJX; 40-10m; CW; 100w; OCF dipole; spare time operation during school trip	NG3K
2019 Feb16	2019 Mar05	Central Kiribati	T31EU	LotW	PA3EWP 20181016	By DL2AWG DL6JGN DJ9RR DM2AUJ DK5WL PA3EWP fm Canton I; 160-10m; CW SSB RTTY, some FT8; QSL also OK via DL2AWG (DARC Buro or direct) or Club Log	NG3K
ARRL International DX Contest, CW (Feb 16-17, 2019) Check here for pericontest activity too.							
2019 Feb19	2019 Mar06	Vietnam	3W9JF NEW	F6CTF Direct	DXW.Net 20190111	By F6CTF fm Phu Quoc I (IOTA AS-128); HF; QSL also OK via eQSL	NG3K NG3K
2019 Feb20	2019 Mar30	Senegal	6W7	ON4AVT	TDDX 20181220	By ON4AVT as 6W7/ON4AVT fm Warang; 40 20 10m; PSK CW SSB; 100w; holiday style operation	NG3K
2019 Feb22	2019 Feb24	Puerto Rico	KP3RE	LotW	KP4RV 20181114	By KP4RV KP4VP KP3LR KP4RD fm Culebra I (IOTA NA-249); 80-10m; CW SSB FT8; 100w; delta loops, verticals; QSL also OK via Club Log	NG3K NG3K
2019 Feb22	2019 Mar07	Chad	TT8RR	TBA	DXNews 20181115	By I1HJT I1FQH IW1ARB I2YSB IK2CIO IK2CKR IK2DIA IK2HKT JA3USA; CW SSB RTTY; TT8XX on FT8	NG3K NG3K
2019 Feb22	2019 Mar10	Guadeloupe	FG NEW	F6HMQ	TDDX 20190109	By F6HMQ as FG/F6HMQ and F6GWV as FG/F6GWV fm IOTA NA-102; holiday style operation; QRV for ARRL DX SSB	NG3K
2019 Feb27	2019 Mar06	Galapagos	HD8M	LotW	DXNews 20180921	By WB2REM W2WCM HC5DX fm Santa Cruz I (IOTA SA-004); 160-6m; CW SSB + digital; QSL also OK via WB2REM and Club Log	NG3K
March							
2019 Mar01	2019 Mar10	Lesotho	7P8	M0OXO	TDDX 20180913	By LA7THA + team as TBA; details forthcoming; dates tentative	NG3K NG3K NG3K
2019 Mar01	2019 Mar15	Cayman Is	ZF2CA	G4CWH Direct	OPDX 20181217	By G4CWH fm Grand Cayman I (IOTA NA-016); 160-10m; CW SSB; QRV for BERU Contest; exact dates not clear	NG3K
ARRL International DX Contest, Phone (Mar 2-3, 2019) Check here for pericontest activity too.							
2019 Mar03	2019 Mar30	Sint Maarten	PJ7AA	AA9A	DXNews 20181204	By AA9A fm IOTA NA-105; 80-10m; CW SSB RTTY JT65	NG3K NG3K NG3K
2019 Mar08	2019 Mar16	Bahamas	C6AKT	LotW	DXNews 20181130	By M1KTA fm nr Glass Window Bridge, Eleuthera I (IOTA NA-001); 80 40 20 15 10m; CW; QSL also OK via M1KTA and Club Log	NG3K
2019 Mar11	2019 Mar27	Juan Fernandez	XR0ZRC	LotW	DXNews 20190106	By R7AL RA1ZZ RK8A RL5F RW9JZ CE1TBN fm IOTA SA-005 (FF06oi); 160-10m; CW SSB FT8; 3 sttions; QSL also OK via R7AL (Buro or direct) and Club Log	NG3K
2019 Mar14	2019 Mar22	South Cook Is	E51HMK	LotW	TDDX 20180622	By DK2HM fm Rarotonga (IOTA OC-013); mainly SSB, some digital; QSL also OK via DK2HM (Buro or direct), Club Log, eQSL	NG3K
2019 Mar14	2019 Mar26	Togo	5V7EI	LotW	DXW.Net 20181230	By 13 op EIDX Group team; 160-10m; SSB CW + digital; 5 QRO stations; QSL also OK via M0OXO	NG3K
2019 Mar14	2019 Mar30	Curacao	PJ2	LotW	DK5ON 20181209	By DK5ON as PJ2/DK5ON; 80-6m; CW SSB RTTY FT8; 5w; QSL also OK via DK5ON (Buro or direct) and Club Log	NG3K
2019 Mar16	2019 Apr06	Vietnam	3W9JF NEW	F6CTF Direct	DXW.Net 20190111	By F6CTF fm Hoi An; HF; QSL also OK via eQSL	NG3K NG3K NG3K
2019 Mar19	2019 Apr02	Niue	E6ET	Club Log	DXW.Net 20180603	By 5B4ALX; 160-6m, focus on 160 60 30 10m; SSB CW RTTY, some FT8; 1 kw; verticals; QRV for CQ WPX SSB; see Web for full QSL details	NG3K NG3K NG3K
CQ WPX Contest, SSB (Mar 30-31, 2019) Check here for pericontest activity too.							
April							
2019 Apr14	2019 Apr20	Djibouti	J20DX/p	LotW	DXW.Net 20181231	By MM0NDX MM0OKG fm Moucha I (IOTA AF-053) and Sept Frere I (AF-059); dates tentative; QSL also OK via Club Log	NG3K NG3K NG3K
2019 Apr15	2019 Apr22	American Samoa	KH8	LotW	DXW.Net 20190101	By OZ0J and OZ1RH as TBA; CW SSB + digital (incl FT8); QSL also OK via Club Log (see Web for full details)	NG3K
2019 Apr17	2019 Apr25	Burkina Faso	XT2MAX	LotW	DK1MAX 20181201	By DK1MAX; HF; CW FT8; QSL also OK via eQSL; Club Log uploads; no paper QSLs	NG3K NG3K
2019 Apr21	2019 May03	French Polynesia	FO	LotW	OPDX 20180827	By KE1B as FO/KE1B fm Bora Bora I (IOTA OC-067); mainly 20m; FT8; 10w; QSL also OK via KE1B (Buro or direct), Club Log (preferred), eQSL	NG3K NG3K NG3K

FCC Ham Exams

GCARA: Blue Ash Recreation Center 4433 Cooper Rd Blue Ash. Registration 6:30pm. For more information contact Gary, W8XS at osborne@fuse.net. WALK INS ACCEPTED

1st Saturday each month: Cincinnati (Hartwell), CRA, at Hartwell Pres. Church. Registration 8:30am; walk-in only! All licenses classes. Dale Pritchett, KC8HJL at (513) 769 0789

2nd Monday each month: Kentucky (Edgewood) NKARA, at Turkeyfoot Middle School, 3230 Turkeyfoot Rd. Registration 6:00pm. Follow the signs. Pre-registration preferred, walk-ins accepted. Lyle Hamilton, AB8SH, (513) 315 4032. Talk-in 147.255

In all cases; tests require two Ids (preferably one with photo).
COST: \$15.00

Webpages of Importance to Members of the GCARA

Greater Cincinnati Amateur Radio Association.....www.gcara.org/home

GCARA on Facebook.....<https://www.facebook.com/groups/402853765060/>

American Radio Relay League.....www.arrl.org

Great Lakes Division-ARRL...www.arrl-greatlakes.org

Ohio Section - ARRL.....www.arrl-ohio.org

Ohio Section News.....www.arrl-ohio.org/sm/Section_News.html

Dayton Hamvention.....www.hamvention.org

Shortwave listening Guide...www.naswa.net/swlguide

Follow the GCARA on Twitter...@W8DZ

* If reading from a pdf file, clicking on the link will take you to the webpage

Silent Keys

James Good, K8JG
Ray Leadingham, WD8M
Ralph Rush, KG4HMP

If you know of a ham who has become a SK
please contact TM&K Editor at tm&k@gcara.org

Membership Application

JOIN
or
RENEW
GCARA
MEMBERSHIP



GCARA membership application and information update form

() I enclose \$15 dues per club year (July. 1- June 30) x () years = \$ _____

() I request *free student membership* (licensed Hams in grades 1-12) for Jan. 1-Dec. 31.
If a free Student Membership, what is your school & grade? _____

This is a () new, () renewed membership. Member of ARRL? () yes, () no

() My yearly dues are paid. Please enter the following changes for me:

NAME _____ CALL _____

ADDRESS* _____

CITY/STATE* _____ ZIP* _____

Tel. No. with A/C* (____) _____ - _____

E-MAIL ADDRESS* _____@_____

My interests in and out of Ham radio: Public service; Working with youngsters;
On-air operations; VHF/UHF; HF; Building; Teaching; Computers;
Helping people become licensed; Repairing equipment; Helping other Hams.

*Provide specified information only if it has changed since last renewal.

Mail with dues payment to: Richard Pestinger, KC8RP
66 Boehm Court
Fairfield, Ohio 45014

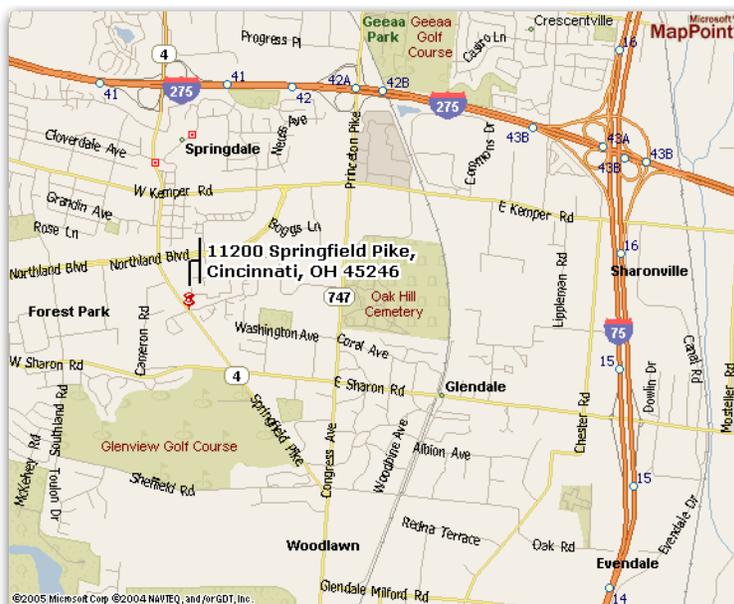
*Make checks/MOs payable to GCARA
to pay with PayPal go to www.gcara.org*

Send application
and \$15.00
to
Richard Pestinger,
KC8RP
66 Boehm Court
Fairfield, Ohio
45014

If you would like your
membership card
mailed to you, please
send a SASE with your

GCARA meets the 4th Wednesday of each month
March - October
(June -Picnic, December - Christmas Party)

Directions to GCARA Meeting location
Maple Knoll (Breese Manor)
11200 Springfield Pike, Springdale, OH
(Take Maple Trace Dr. off Springfield Pike)





TM&K Editor
3261 Old Oxford Rd
Hamilton, Ohio 45013



**TO CHANGE YOUR CALLSIGN, ADDRESS, PHONE OR EMAIL
GO TO THE GCARA WEBSITE www.gcara.org**
(link located at bottom of page)

**Mr. Antenna**

Jeff Hubbard
513-202-3115
513-504-4426 (cell)
Jeff@MrAntenna.com
www.MrAntenna.com

Antennas • Towers • TV Installs • Cell Phone Boosters