AMATEUR RADIO CLUB OF COLUMBIA COUNTY, INC.



GENERAL MEETING MEETING #33 Tuesday, July 25, 2017 7 PM



INVOCATION

ARCCC, INC. AGENDA OVERVIEW



- Welcome and Introductions (Quickly)
- Applications for New Membership
- Treasury Report and Meeting Minutes
- Swap Table
- Presentation
- Updates from Committee Directors
- New Business



RECOGNIZE SPECIAL VISITORS



WELCOME AND INTRODUCTIONS



- Please Sign In on the Attendance Log
 Please <u>PRINT</u> Legibly
- Introductions
 - <u>QUICKLY</u> Go Around the Room and Provide Your Name and Call Sign

MEMBERSHIP APPLICATIONS



 Are there any additional ARCCC, Inc.
 Membership Applications which need to be turned in before we vote?



ARCCC, INC. REPORTS

- Treasurer's Report
- Secretary's Report

 Posted on Website



SWAP TABLE







UPCOMING EVENTS



- 08-19-2017 Huntsville, AL Hamfest
- 08-21-2017 Total Solar Eclipse Special Event Station
- 09-16-2017 Augusta Hamfest
- 09-16-2017 Bsides Conference
- 10-07-2017 Science Education Enrichment Day (S.E.E.D)
- 11-4/5-2017 Stone Mountain Hamfest (Lawrenceville, GA)

OLD BUSINESS



- Any Old Business?
 - QSL Management (Manager?)
 - Electronic QSL Methods and Management
 - Design/Purchase of QSL Cards
 - Monitor and Reply to QSL requests
 - And other QSL Duties
 - Previous Motions to follow up on not otherwise covered by a committee?



- Directors should provide <u>QUICK UPDATES</u> on their committees
 - REMINDER:
 - All Committees should be coordinating meetings on their own with the Co-Directors providing updates at the General Meetings and issuing any requests for the members to vote on.



- Asset/Inventory Committee
 - Earl Welsh (KG4HIQ) and Walter Brumbeloe (W4EFS) are Co-Directors
 - Assignments
 - Research Asset Inventory Tags and method of recording such tags
 - Coordinate with 2017 Field Day Committee Co-Directors to ensure recently added Field Day equipment has been accurately added to the club inventory
 - Coordinate with Treasurer on Insurance on recently added equipment



- Asset/Inventory Committee
- Constitution and Bylaws Committee
 - Jim Cunningham (KV4YA) and Steve Clayborn (KJ4FSX) are Co-Directors



- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
 - Doyle Windham (WE4GW) and Richard Sturgis (KR4XN) are Co-Directors



- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
- Field Day Committee
 - Samantha Clayborn (KM4NSF) and Shannon Covington (KK4MED) are Co-Directors
 - Participation in 2018 Winter Field Day?
 - January 27/28, 2018
 - Participation in 2018 ARRL Field Day?
 - June 23/24, 2018

Home

		Callsign	Cat	PH	DI	CW	Multipliers	Power X	Bonus Pts	Score
	1.	K ₂ VN	$_{3}\mathrm{H}$	296	149	230	13	2		27404
	2.	K4YTZ	$_{4}\mathrm{H}$	287	77	283	12	2		24216
	3.	W8MAI	6H	301	7	207	15	2	1500	23370
	4.	VA1AVR	ıH	5 <mark>66</mark>	26	37	14	2	1500	20876
	5.	N9DFD	ıH	759	3	3	10	2		15420
	6.	W_5M	2H	266	24	7	21	2		13776
	7.	WA1BXY	ıH	275	10	140	7	2		8050
	8.	K4OBI	2H	93	140	26	9	2		8010
	9.	AC ₄ ZM	ıH	44	40	14	11	2		7296
	10.	N8CWU	ıH	287	64	1	8	2		6672
	11.	W1GKT	ıH	195	5		6	2	3000	5460
	12.	K4GG	2H	156	11	2	9	2	3000	5184
	13.	N8TCP	2H	403	98	50	6	1		4212
	14.	K4OTH	ıH	274		10	7	2	1500	4116
	15.	VA3TIC	ıH	298	8	1	13	1		4108
	16.	W ₃ CRS	$_{3\mathrm{H}}$	72		29	8	2	1500	3580
	17.	KB6UNC	ıН	334		50	4	2		3472
	<u>18.</u>	K4KNS	$_{4}\mathrm{H}$	64	87	3	7	2		3416
	19.	KC9PUX	ıН	48			3	2	3000	3288



- Field Day Committee
 - Samantha Clayborn (KM4NSF) and Shannon Covington (KK4MED) are Co-Directors
 - 2017 Winter Field Day Results update
 - 2018 Plans and Expectations
 - Use FT-817 for WSPR (Weak Signal Propagation Reporter Network)
 - Purchase of various supplies (labels, velcro, powerstrips, etc.)



- Field Day Committee
 - Samantha Clayborn (KM4NSF) and Shannon Covington (KK4MED) are Co-Directors
 - 2017 Winter Field Day Results update
 - 2018 Plans and Expectations
 - Use FT-817 for WSPR (Weak Signal Propagation Reporter Network)
 - Purchase of various supplies (labels, velcro, powerstrips, etc.)

- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
- Field Day Committee
- Fundraising Committee
 - Earl Welsh (KG4HIQ) and Drew Brejda (KA5VLY) are Co-Directors
 - Assignments
 - Determine Prizes for the 2017 Participation Competition



- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
- Field Day Committee
- Fundraising Committee
- Mentoring Committee
 - Eric Cagle (KK4ZHT) and Dan Marshall (N1ADM) are Co-Directors



NATEUR RADIO CIUS NATEUR RADIO CIUS KALKINS COLUMBIA COUNTLES

- Mentoring Committee
 - Eric Cagle (KK4ZHT) and Dan Marshall (N1ADM) are Co-Directors
 - Boy Scouts Request
 - JOTA (October 20-22, 2017
 - Request to provide an Amateur Radio training course to 12 individuals in the CSRA Overland group
 - <u>http://www.hamradioschool.com/</u>





Ham Radio Technician License Course Outline

Tri-Lakes Monument Radio Association

Feb 2017 Rev 1

Instructors:

Bob Witte, KØNR	email:	phone:
Stu Turner, WØSTU	email:	phone:
Joyce Witte, KØJJW	email:	phone:
James Bucknall, KDØMFO	email:	phone:

Course Objective:

This course has two objectives:

- 1. The student will be able to pass the FCC Technician License Exam (Element 2), qualifying for the first level FCC Amateur Radio License.
- The student will have sufficient knowledge to operate an amateur radio station on the Technician frequency allocations above 50 MHz.

Philosophy:

This is a <u>highly-compressed course</u> that depends on the <u>focus and motivation</u> of the student. <u>Reading assignments</u> <u>must be done in advance of the classroom sessions</u>. The classroom sessions are fast-paced, covering a wide variety of material in a short time. The use of <u>practice exams</u> is very important for evaluating topic areas that need attention.

Registration Cost:

At the time of registration, we require a **nonrefundable** payment of \$30 (\$20 for under 18) which includes the <u>FCC</u> <u>Exam Fee of \$15</u>. Payment is made via Paypal, which also accepts major debit/credit cards. *Note that this payment* will not be refunded and may not be credited to future class offerings, so make sure of your plans before registering.

Reading Material:

Required: HamRadioSchool.com Technician License Course by Stu Turner, WØSTU (\$21.95)



Note: Be sure to get the 2014-2018 edition shown here!

Available from: <u>HamRadioSchool.com</u> [direct to <u>book page</u>] Or <u>https://www.createspace.com/3898412</u> Or <u>Amazon.com</u> Or Ham Radio Outlet in Denver, Iliff Ave. <u>http://www.hamradio.com</u> Or get it directly from Stu at <u>stu@hamradioschool.com</u>

Practice Exams

These online practice exams are <u>extremely helpful</u> for testing your knowledge:

Book Section Quizzes: http://www.hamradioschool.com/tech_media/

<u>35-question Practice Exams: http://www.qrz.com/hamtest/ http://www.eham.net/exams/ http://aa9pw.com/radio/ http://www.hamtesting.com/ptChoose.php</u>

Tech License Course

HamRadioSchool.com Apps for Quizzing & Practice Exams

Some students have found great value in practice exam applications available on iPhone/iPad (iOS) and Android platforms. Apps are available for iOS and Android that complement the structure of the HamRadioSchool.Com book.

IOS: http://itunes.apple.com/us/app/ham-radio-school/id534335131

Android: https://play.google.com/store/apps/details?id=com.peakprogramming.hamradioschool.technician&hl=en

Day 1: Saturday Feb 25, 2017

Black Forest Fire Station 1, 11445 Teachout Rd, Colorado Springs, CO (Burgess Rd at Teachout Rd) 8:00 AM to 5:00 PM

Preparation: <u>Read pages 1 – 126</u> of the *HamRadioSchool.com Technician License Course* book & take section quizzes. Optional: Read the entire book and start taking online practice exams

We recommend you bring a sack lunch to class so we can have some discussion during the lunch break

Note: Specific section instructor may vary and start/end times are estimates:

Chapter	Topics	Instructor	Pages	Start Time	End Time
	Welcome and Course Overview	Bob		8:00	8:20
0	Before We Begin	Stu	1 to 8	8:20	9:00
	Break			9:00	9:10
1	Operating Your Radio	Bob	9 to 28	9:10	10:30
	Break			10:30	10:40
2	FCC Rules and Regs	James	29 to 51	10:40	11:55
	Lunch Break + discussion (bring a sack lunch)			11:55	12:55
3	Things to Do!	James	52 to 59	12:55	1:15
4	Wavelength, Frequency & Bands	Bob	60 to 74	1:15	1:45
	Break			1:45	2:00
5	Signal Propagation	Stu	75 to 80	2:00	2:30
6	How Radio Works	Stu	81 to 105	2:30	3:30
	Break			3:30	3:40
7	Antennas	Bob	106 to 126	3:40	4:40
	Day One Wrap Up	Bob		4:40	5:00

Day 2: Saturday Mar 4, 2017

Black Forest Fire Station 1, 11445 Teachout Rd, Colorado Springs, CO (Burgess Rd at Teachout Rd) 8:00 AM to 5:00 PM

Preparation: <u>Read pages 127–205</u> of the *HamRadioSchool.com Technician License Course* book & take section quizzes.

Take practice exams (full 35 question representative exams, via *HamRadioSchool.com* app or web sites). We recommend you bring a sack lunch to class so we can have some discussion during the lunch break

Chapter	Topics	Instructor	Pages	Start Time	End Time
	Introduction to Day 2	Stu		8:00	8:10
8	It's Electric!	Stu	127 to 146	8:10	8:50
9	Hamtronics	Bob	147 to 160	8:50	9:35
	Break			9:35	9:45
10	Digital Modes	Stu	161 to 168	9:45	10:20
11	Space Contacts	Stu	169 to 175	10:20	10:45
	Break			10:45	10:55
12	Avoiding Interference	Bob	176 to 188	10:55	11:35
13	Safety	Bob	189 to 205	11:35	12:25
	Lunch Break + review (bring a sack lunch)	Bob/Stu		12:25	1:25
	Review Session	Bob/Stu		1:25	2:00
	Wrap Up	Stu		2:00	2:20
	Exam Session	VE Team		2:20	5:00

FCC Exam Session – End of Day 2

The *WØTLM Laurel VE Team* will conduct the FCC license exams. No fee is charged for this exam session. If you fail the first exam attempt no re-examination attempt is allowed in this same Laurel VE session. You may attend subsequent free Laurel VE (or other VEC with fee) exam sessions to retest. Identification Required: Photo ID (drivers license, student ID, military ID, passport) Students may bring a school ID and/or a written note from legal guardian.

A conventional calculator with the memory cleared is allowed (and recommended). No cell phone use is allowed. You may not bring any written notes or calculations into the exam session.

A Federal Registration Number (FRN) is required. Please see the <u>WØTLM</u> <u>License Exam Team web page</u> for info on registering with the FCC for your personal FRN prior to the exam. (URL: w0tlm.com)

Location

Black Forest Fire Station 1 11445 Teachout Road Colorado Springs, Colorado 80908

This is near the intersection of Burgess Road and Teachout Road in the Black Forest area.

Tech License Course



Edited: 3 Nov 2016 17:50





FCC Technician License Course

Chapter 1:

Operating Your Radio

1.1 Transceiver Basics 1.2 Ham Communication Basics 1.3 Repeater Basics

Let's talk about the radio...

Fern Moyse [The Hackensaw Boys]





1.1 Transceiver Basics

Questions we'll answer...

- What are the major parts of a radio system?
- What are the different radio form factors?
- What are radio 'modes' of transmission?
- What are the common controls of a radio?
- Why do radios have rubber ducks?

Let's talk about the radio...

Fern Moyse [The Hackensaw Boys]



Q. What are the major parts of a radio system?

Microphone: Converts sounds into electrical (audio) signals <u>Transmitter</u>: Encodes audio signals into radio signals <u>Antenna</u>: Radiates radio waves and receives radio waves <u>Receiver</u>: Decodes radio signals into audio signals <u>Speaker</u>: Converts audio electrical signals into sounds



Q. What are the different radio form factors?

Handheld Transceiver (HT)



You can link a handheld transceiver to an RF power amplifier to increase low power output! T7A10 A regulated power supply helps prevent voltage fluctuations from reaching sensitive circuits. T4A03

Kenwood

52000

ICOM

Regulated

ower

Supply

ID880H

Mobile Transceiver

- FM / Multi-mode
- Multi-band
- 20 to 50 Watts
- Remote Power
- Remote Antenna
- Hand mic
- Car or home

Base Transceiver

- Multi-mode
- Multi-band
- 100+ Watts
- Remote Power
- Remote Antenna
- Hand/Table mic
- Static Install

Q. What are radio 'modes' of transmission?

Is this gonna

be on the test?

To some extent, yes, but it's easy really... relax.

Mode: The particular type of modulation used in a radio communication.

Modulation: Placing information into a radio transmission by altering some characteristic of the radio waves.



0

Q. What are radio 'modes' of transmission?

Whew! Thanks, I

think I get it.

- Different modes have different advantages, and are used in various ways...
- FM: Used for voice, repeater, and packet radio. Clear, low noise mode.

T8A02, T8A04

SSB: "Single sideband," a special form of AM, used for weak signal contacts. Advantage of narrower bandwidth than FM.



0 0

Q. What are the common controls of a radio?



frequencies & store channels for quick access.

> **External Microphones** have connections that include the PTT signal and voltages for powering the microphone. T4A01

VFO: Variable Frequency Oscillator, tunes transceiver to operating frequencies. T4B02

Squelch: Mutes receiver output noise when no signal is being received. T4B03

Q. Why do radios have rubber ducks?

Most HTs are sold with a short, integrated antenna with a molded rubberized exterior – a "Rubber Duck" antenna, but...

The Rubber Duck is a really convenient, crappy antenna...

It does not transmit or receive as effectively as a full sized antenna. T9A04

The Rubber Duck's signals will be significantly weaker if used inside a car, where surrounding metal will block signals. T9A07 A longer, more effective replacement for the Rubber Duck antenna.



A mag-mount or clip-on antenna is a better solution for mobile ops in a car with an HT!





1.1 Transceiver Basics

Please Make a Selection...

Go to the *HamRadioSchool.com* online quiz for section 1.1, *Transceiver Bas*ics. (Internet connection required.)

Continue with Chapter 1, section 1.2, Ham Communication Basics.

End of Section 1.1



1.2 Ham Communication Basics



HAM RADIO

VERE ADEPTO

Questions we'll answer...

- How do I make contact with another ham?
- When do I have to identify my station?
- What are "Q signals" and their meaning?
- How do I solve the most common problems experienced by new hams?

The public airwaves provide a chance to affirm we want to be a good, decent people...

- Charles W. Pickering

Q. How do I make contact with another ham?

Contacts are made by either simplex communications or by repeater communications...

On-air procedures are nearly identical whether simplex or repeater communications with FM voice mode.

Simplex Communications: Transmitting and receiving on the same, singular frequency.

T2B01



Repeater Communications: A repeater station receives your signal on one channel (frequency) and simultaneously re-transmits it on a different channel.

Q. How do I make contact with another ham?

Here are some simple guidelines a examples for contacting others on	nd the air. 1 4	T1B04 T2A02 ir. National Calling Frequencies: 146.52 MHz on 2 meter band 446.000 MHz on 70 cm band		
Listen First: Be sure no one else is us selected frequency. You can also tran asking if the frequency is in use, but sure you are in your assigned band.	sing the nsmit make T2A12	<i>"Is the frequency in use? Is the frequency in use? WØSTU."</i>		
Calling a Specific Station: Say the ot station's call sign and then identify your own call sign.	her with	"KDØMFO, WØSTU." (HisMine)		
CQ: The procedural signal "CQ" mea "calling any station." When respond to CQ repeat the other station's call sign followed by your own.	ans ling T2A08 T2A05	"CQ CQ CQ. KDØMFO calling CQ and standing by." "KDØMFO, WØSTU." (HisMine)		

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Q. When do I have to identify my station?

Transmit your FCC call sign every 10 minutes and at the end of any set of transmissions.

> T1F03 T2A06 T2A07

An amateur operator must properly identify with call sign for any transmissions, even brief transmissions to test equipment.



Note: There is **no requirement to identify at the start** of transmissions, but most stations do so commonly for clarity of communications – good amateur practice!

Q. What are "Q signals" and their meaning?

Q signals are three-letter shortcuts for commonly used phrases, concepts, or questions. Originated as efficient Morse Code shorthand they are used even in voice modes today.



Some of the most commonly used Q signals:

- QSL: Acknowledge receipt; Can you acknowledge receipt?
- QRZ: Who is calling? Ready for next call.
- QTH: Location; What is your location?
- QSY: Change frequency; Shall I change frequency? T2B10
- QRP: Reduce power; Shall I reduce power?
- **QRM: Interference from other radio stations** T2B11
- QRN: Static noise; Are you troubled by static?
- QSO: Can you communicate with me? A conversation.

New hams often experience a few common problems. Let's see how to handle them with ease!

1. Radio Horizon: The distance over which two stations can communicate by direct path is limited because... ..."the earth seems less curved to radio waves than to light waves."

T3C11

Solutions:

- Higher Antennas
- Use repeaters



T3A02

2. Inside Buildings: UHF frequencies (70 cm) are often more effective than VHF (2 meter) frequencies. The shorter wavelengths penetrate building structure better.

Solution: - Use UHF bands from inside buildings



3. Intermittent Signals: Another operator reports your signals were strong a moment ago but now are weak or distorted. You are experiencing random reflections and multi-path distortion.

Solution: - Move just a few feet



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4. Picket Fencing: A rapid fluttering sound that is commonly heard from mobile stations that are moving while transmitting.

T3A06

T3A05

Solution:

- Usually is not severely disrupting, and only solution is to become stationary

Fluttering sound is from varying reflections and interferences to transmissions from the environment. 5. Obstructions: Buildings, hills, or other features may block your direct line of sight path to a distant repeater or other station.

Solution:

- A directional antenna may be used to try and find a path that reflects your signal to the other station.

Q. How do I solve the most common problems experienced by new hams? The electric field

Field

Intensity

Vertical Polarizatior

6. Antenna Polarization: The orientation of the electric field part of a radio wave is used to describe its polarization. T3B02 Magnetic

Solution:

 Identical polarization of the transmitting and receiving stations is best for signal strength... else signals will be significantly weaker.

> Horizontal polarization, where your antenna elements are horizontal, is common for long-distance weak-signal operations using VHF and UHF bands, particularly with CW and SSB modes.

The electric field oscillates parallel to the antenna element. Electric Field Intensity

T3A03

7. Overdeviating: Your FM signal is being driven too hard by your microphone signal, causing distortion.

Solution:

- Talk farther away from the microphone if you are told your FM transceiver is overdeviating. T7B01

Click icon:

Warning! Annoying Audio Example 8. Distorted or Unintelligible Signals: Distortion can be caused by several factors. Check these items:

T7B10 - Your transmitter is slightly off frequency.

- Your batteries are low.
- Simply in a bad location.

See the summary table on p. 24

1.2 Ham Communication Basics



VERF ADEPTO IS

HAM RADIO

Please Make a Selection...

Go to the *HamRadioSchool.com* online quiz for section 1.2, *Ham Communication Bas*ics. (Internet connection required.)

Continue with Chapter 1, section 1.3, *Repeater Basics*.

End of Section 1.2



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1.3 Repeater Basics

Questions we'll answer...

- What is a repeater and why are they used?
- What's different about repeater operations?
- Who operates and coordinates repeaters?

There is no harm in repeating a good thing - Plato

Q. What is a repeater and why are they used?

Repeater: An amateur radio station that simultaneously retransmits the signal of another amateur station on a different channel or channels.

T1F09



Usually sponsored by radio clubs or individual hams for everyone to use.

Typically FM mode on VHF/UHF frequencies.

Often located on high mountain tops or tall buildings.

Can greatly extend the range of your radio.

A repeater uses two frequencies:

- **1. Input or receive frequency**
- 2. Output or transmit frequency

 Most Common Offsets

 2m band: +/- 600 kHz (0.6 MHz)

 70cm band: +/- 5 MHz
 T2A01

 T2A03

Frequency Offset: The difference between a repeater's transmit and receive frequencies is the offset. ^{T4B11}

70 cm Band 5 MHz Negative Offset Example

447.725 MHz: Your Listen (Repeater Transmit)

442.725 MHz: Your Talk (Repeater Receive)



A repeater may require tone transmissions to open its squelch:

CTCSS: Continuous Tone Coded Squelch System – a sub-audible tone transmitted with normal voice audio to open squelch. DCS: Digital Coded Squelch T2B02

If the repeater requires one of the above tones, you might be able to hear but not access the repeater even when transmitting with the proper offset frequency. T2B04



A repeater may require tone transmissions to open its squelch:

CTCSS: Continuous Tone Coded Squelch System – a sub-audible tone transmitted with normal voice audio to open squelch. DCS: Digital Coded Squelch

Tone Burst: Tone of specific frequency at transmission start

Muting of the receiver controlled solely by the presence or absence of an RF signal is called carrier squelch. That is, no tones of any type required to open the squelch of the repeater receiver. T2B03



Calling for contacts: CQ is rarely used on repeaters. To indicate that you are listening and interested in a contact simply transmit your call sign.

Calling a specific station, say the other stations call sign and then identify with your call sign. This is just like FM simplex ops!

Simplex Instead? When stations can communicate directly without using a repeater, the operators should consider using simplex instead.

T2A04



Q. Who operates and coordinates repeaters?

Repeater Coordination:

- Frequency coordinators keep things orderly
- They are selected by local amateur operators of repeaters or auxiliary stations
- The coordinator recommends transmit/receive channels and other parameters for repeaters and auxiliary stations T1A09

Any Technician Class licensed amateur may legally own or be the control operator of a repeater station.









1.3 Repeater Basics

Please Make a Selection...

Go to the HamRadioSchool.com online quiz for section 1.3, Repeater Basics. (Internet connection required.)

End Chapter 1 Operating Your Radio.

End of Section 1.3



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FCC Technician License Course

Chapter 1:

Operating Your Radio

1.1 Transceiver Basics 1.2 Ham Communication Basics 1.3 Repeater Basics



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SUPEUR RADIO CIUS SUPEUR RADIO CIUS

- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
- Field Day Committee
- Fundraising Committee
- Mentoring Committee
- Net Control Committee
 - Devon Harris (KM4PHT) and Dan Marshall (N1ADM) are Co-Directors
 - Assignments
 - Coordinate a meeting/training session with all net controllers



- Net Committee Devon Harris (KM4PHT)
 - <u>Net Controllers WANTED!!!</u>
 - ARCCC, Inc. Net
 - Monday's at 7:30 PM Local Time on 146.985, TSql 71.9
 - ARCCC, Inc. 6 Meter Rag Chew
 - Thursday's at 9:00 AM Local Time on 53.03 (-1 MHz), No Tone
 - AmRRON Net
 - Monday's at 21:00 on 146.985, 71.9 TSql

07-17-2017 Net

Text

Favorites



tĻł

-114 Verizon ᅙ 19:33 **1** 61% K4KNS-R Connected to KN4CAX CONF thelinkbox V 0.55 [8/8] WB4IKP Ronald W4EFS Walter AI4XF Todd **KM4QMW** Bryan KM4NSF iPhone User **KK4MED Shannon Covington** KG4HIR Rusty Welsh **KN4CAX** Randy Welcome to the Amateur Radio Club of Columbia County, Inc. 1/6 085 MHz 71 0 Hz TSOL Transmit (X) End

F

oso

Text

tļł

-114 Verizon ᅙ 59% 19:37 ●●○○○ Verizon 죽 7:58 PM **1** 65% K4KNS-R Connected to KN4CAX [not connected] CONF thelinkbox V 0.55 [8/8] KG4HIR>Hi all! KK4MED> hi KM4QMW>Hey Y'all! K1PWM Jeff WB4IKP Ronald KM4QMW>looks like a full house AI4XF Todd tonight **KM4QMW Bryan** KK4MED> yep **KM4NSF** iPhone User KG4HIR>Just texted the repeater committee... might need to up the **KK4MED Shannon Covington** number. **KG4HIR Rusty Welsh** KM4QMW>not a bad idea **KN4CAX** Randy KD8DQU>hello feomthn KD8DQU>from tn Welcome to the KM4QMW>hello from KY Amateur Radio Club of Columbia County, Inc. 1/6 085 MH7 71 0 H7 TSOI (X) End Enter text to send 0 0 ŧĻł $\overline{\mathbf{x}}$ Ų F F Text Favorites **QSO**

SUPEUR RADIO CIUS SUPEUR SUPEUR

- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
- Field Day Committee
- Fundraising Committee
- Mentoring Committee
- Net Control Committee
- Outreach Committee
 - Jim Cunningham (KV4YA) and Dan Marshall (N1ADM) are Co-Directors
 - Solar Eclipse Special Event Station Monday, Aug. 21, 2017 Todd Dunaway (AI4XF)

SUPEUR RADIO CIUS SUPEUR RADIO CIUS

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- Outreach Committee
 - Jim Cunningham (KV4YA) and Dan Marshall (N1ADM) are Co-Directors
- QSL Manager



QSL Manager

- QSL Card Examples
- QSL Email Address created for ARCCC, Inc.
- Electronic QSL Methods
 - LoTW
 - eQSL
 - QRZ





Amateur Radio Club of Colun P.O. Box 285 Evans, GA 30809 USA www.arccc.org qsl@arccc.org	nbia County, In	c.	
RADIOQSO ONQSO ONQS	CONFIRMIN UT Mł	IG C IS Cards Iz KB3IH OSI Cards 	
73,	PSE QSL TN	x	



Amateur Radio Club of Columbia County, Inc.

P.O. Box 285 Evans, GA 30809 USA

www.arccc.org · qsl@arccc.org

K4KNS

Confirming QSO with

DAY	MONTH	YEAR	UTC

MHz	RST	2- WAY	QSL PSE TNX
-----	-----	--------	-------------------

AMATEUR RADIO

4

(B3IFH QSL Cards

Amateur Radio Club of Columbia County, Inc.

P.O. Box 285 Evans, GA 30809 USA



www.arccc.org · qsl@arccc.org

CONFIRMING QSO WITH

		MONTH	YEAR	
UTC	BAN	RST	MODE	
RIG			PWR	
ANTENNA				

73, ____ PSE QSL TNX _



KB3IFH QSL Cards -



QSL Manager

- QSL Card Examples
- QSL Email Address created for ARCCC, Inc.
- Electronic QSL Methods
 - LoTW
 - eQSL
 - QRZ

RATE PARTS	AMATEUR RADIO CLUB OF COLUMBIA COUNTY, INC PO BOX 285 EVANS, GA 30809 USA QSL: LoTW. eQSL. direct	HALLON RADIO CLUB KALKINS
COM C-7300	Email: qsl@arccc.org Page managed by N1ADM Lookups: 3094 Label	COLUMBIA COUNT.ST
AML RADIO ROUTUET	Biography Detail Logbook Log a NEW contact with K4KNS	

About Our Club



R&L Electronics

MFJ-

The Amateur Radio Club of Columbia County, Inc. is a 501(c)3 public charity, is affiliated with the American Radio Relay League (ARRL) and is a Special Services Club. The ARCCC, Inc. provides public service to Columbia County, Georgia and surrounding areas upon request. Additional goals of the ARCCC, Inc. include but are not limited to amateur radio training, providing communications to served agencies and fostering the network of amateur radio operators and the vast variety of amateur radio opportunities.

Please visit <u>http://www.arccc.org</u> for more information including all supporting documents for the information above information.

Newly Updated K4KNS QRZ Page

– <u>https://www.qrz.com/lookup/k4kns</u>



- Asset/Inventory Committee
- Constitution and Bylaws Committee
- Chaplain and Visitation Committee
- Field Day Committee
- Fundraising Committee
- Mentoring Committee
- Net Control Committee
- Outreach Committee
- QSL Manager
- Repeater Committee
 - Howard Weeks (K5JCP) and Earl Welsh (KG4HIQ) are Co-Directors

RADIO CILIA RADIO CILIA KARANS COLUMBIA COUNTLOS

- Asset/Inventory Committee
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- Field Day Committee
- Fundraising Committee
- Mentoring Committee
- Net Control Committee
- Outreach Committee
- QSL Manager
- Repeater Committee
- K4KNS Trustee
 - Richard Sturgis (KR4XN) is the K4KNS Repeater Trustee



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- Repeater Committee
- K4KNS Trustee
- VE Team Committee
 - Shannon Covington (KK4MED) is the VEL and Cindy Cunningham (KM4DBA) is the VEL Assistant



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- Repeater Committee
- K4KNS Trustee
- VE Team Committee
- Website Committee
 - Rusty Welsh (KG4HIR) and Eric Cagle (KK4ZHT) are Co-Directors



- Website Committee
 - Rusty Welsh (KG4HIR) and Eric Cagle (KK4ZHT) are Co-Directors
 - All Domains Renewed through 2019 (May or July)
 - All Domains are in the Club's Godaddy Account
 - 10 Domains are Permanently forwarded to <u>www.arccc.org</u>
 - All Domain DNS Records have been updated
 - Amazon Web Services Hosting is operational
 - Using On Demand t2.nano Server from AWS
 - Website is now using HTTPS
 - IMAP Email implemented

Elastic Compute Cloud		\$0.73
✓ US East (Northern Virginia) Region		
Amazon Elastic Compute Cloud running Linux/UNIX		\$0.09
\$0.00 per Linux t2.micro instance-hour (or partial hour) under monthly free tier	538 Hrs	\$0.00
\$0.0059 per On Demand Linux t2.nano Instance Hour	15 Hrs	\$0.09
EBS		\$0.64
\$0.00 per GB-month of General Purpose (SSD) provisioned storage under monthly free tier	30 GB-Mo	\$0.00
\$0.00 per GB-Month of snapshot data stored under monthly free tier	1 GB-Mo	\$0.00
\$0.05 per GB-Month of snapshot data stored - US East (Northern Virginia)	4.259 GB-Mo	\$0.21
\$0.10 per GB-month of General Purpose SSD (gp2) provisioned storage - US East (Northern Virginia)	4.333 GB-Mo	\$0.43
Elastic IP Addresses		\$0.00
\$0.00 per Elastic IP address not attached to a running instance for the first hour	0.200 Hrs	\$0.00
Spend Summary

Welcome to the AWS Account Billing console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for July 2017

\$0.45



Spend Summary

```
Cost Explorer
```

Welcome to the AWS Account Billing console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for July 2017

\$0.73



COMMITTEE UPDATES



- Website Committee
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 - \$320 to Implement/Complete with all :
 - LDAP (will require a second server instance, likely a t2.micro Server)
 - » (Configure everything for users through LDAP Admin Tool instead of individually)
 - Nextcloud (Shared Contacts, Calendars, Files, Tickets, Chat, etc.)
 - Significant Reconfiguration of Email Server



ANY OTHER BUSINESS?

• New Business?



ARCCC, Inc. Facebook Page



MEETING AGENDA ITEMS



 Anyone wishing to place an item on the ARCCC, Inc. Meeting Agenda should provide their request via email to the ARCCC, Inc.
President at least 7 days prior to the upcoming meeting.

PHOTOS OF THE HOBBY



- TAKE PHOTOS!!!
- Share the photos with the ARCCC, Inc. Board so they can be placed on the website and other outreach materials.
- Take photos in order so they tell a story in chronological order
- Be certain Camera Date and Time are Correct

REVIEW



Review Motions and Assignments

MEETING RAFFLE



• All ARCCC, Inc. Members get a free ticket

Additional Tickets may be purchased for \$1 each

Nonmembers may purchase Tickets for \$1 each



THANK YOU!!!