

ZERO BEAT



February 2019

Next Meeting, Thursday February 14 1900 hours
Program: Neil Weber: *Building and using a Pan Adapter*

Monthly Meeting Minutes

Kingsport and Bays Mountain Amateur Radio Club

Meeting Notes: 10 January 2019

Regular Club Meeting held 1/10/19 at the Eastman Employee Center at 7:00 PM

Submitted by: Robert D. Watts: Secretary

This is the first meeting of 2019 held by the new club administration headed up by Rick Johnson our new President

Call to Order

- Meeting called to order at 7:00 PM by our club president Rick Johnson
- Rick thanked everyone for coming out. We had a tremendous turnout

Pledge of Allegiance and Prayer: 701PM

- Pledge of Allegiance led by Larry Dale
- Prayer was given by John Williams

Introduction of Attendees: 703PM

- The club officers for 2019 were introduced to the club
 - President: Rick Johnson
 - Vice President: Chuck Short
 - Treasurer: Neil Weber
 - Deputy Treasurer: Dave Stevens
 - License Trustee: Ken Klotz
 - Secretary: Bob Watts
- 23 members were in attendance
- Attendance sheets are on record

Reading and Approval of Last Meeting Minutes: Rick Johnson former Secretary

- Last meeting was the Christmas party
- Primary formal agenda was the presentation of new club officers' candidates
- Proposed new officers were accepted by acclamation
- Meeting Minutes were reviewed and approved

Treasurers Report: Neil Weber and Dave Stevens

- Treasurers report was given. A motion to accept the report was made and seconded. Approval was unanimous. The report is on record.

Repeater Update: Ken Klotz

- No repeater issues
- All operations normal

Website Update: 708 PM Larry Dale

- Site updated to show new board
- Site is current
- Old emails have been archived

- Site shows the three scheduled monthly club breakfasts. Everyone invited to participate to the extent they can. These are great opportunities for fellowship. Discussion from the floor asked if we could add a fourth meeting that has developed informally: club agreed to add the meeting at Club 93
- Current calendar not showing the upcoming Winter Field day event. It will be added.
- Discussion from the floor about whether material can be added to the site such as a “Tech Corner”. There was general agreement that additions could be made

Sunday Net Update: 718 PM Russ Richard was unable to attend this meeting. Content provided by general discussion of club members

- Site is doing OK but the club needs someone to step up to run the net on a regular basis
- Net control script is available, and members were encouraged to participate
 - Script is on the first page of our web site under evaluations then down to Sunday Night Net: Script then log is shown
- Our President reminded everyone that volunteers may be selected to lead the Sunday net if none step forward
- There was some discussion about whether the script was up to date or not. The script is up to date

ARES Report: 721 PM Walt Baldree

- New hospital owner (Ballard Health) causing some disruption due to area reorganization. The Holston Valley Communications Center is being relocated to Johnson City due to trauma center designations changing
 - WINLINK and 2meter operations are moving.
 - Move will be accomplished by contractors to the hospital. We do not know how they will be re-established or configured
- Indian Path location and operation are unchanged
- ARES in Hawkins County is in disarray. Walt Baldree and Larry Dale attended meeting with the leadership
 - No handle on present operations and no obvious plans
- Walt emphasized that regardless of the organization structure or location of equipment the ARES mission remains unchanged: Uninterrupted alternate communications through WINLINK and 2-meter operations to support emergency operations and delivery of essential services

Old Business

- None

New Business

- **Testing:** No one tested tonight
 - FCC Shutdown (because of the partial government shutdown) will impact acceptance, recording and assignment of new licensees.
 - Question from the floor about whether the process was automated through ARRL. George DeVault did a quick check of the internet and confirmed that license issuance was not automated, and license issuance would be suspended until the government shutdown ends.
- **Continuing and New Programs**

- All programs from previous year will be continued and enhanced to the extent possible
 - Sunday Net Makers Fair Winter Field Day Field Day
 - 4th of July Parade Fun Fest Etc.
- **Contact with the City of Kingsport**
 - Rick Johnson reported that he intended to meet with the Kingsport City Mayor
 - The Kingsport and Bays Mountain Amateur Radio Club is 69 years old and Kingsport is 102 years old. Our histories are intertwined.
 - Let the mayor know what we have done and can do to support the city: Fun Fest, Foot and bicycle races, parades etc.
 - Mr. Hank Brown of “We Race” is the point of contact in Kingsport.
 - Mrs. Lucy Fleming is point of contact for Fun Fest. She is the wife of the Kingsport City Manager
 - All contacts with the City and others must emphasize how the KARC can be of service and use.
- **HAM radio in Public Schools**
 - Rick Johnson acknowledge David Gulley’s continuing interest in bringing HAM radio to the Public Schools and indicated that this was an important effort. The youth are literally the future of our hobby and without new blood the hobby and our club will be challenged in many ways.
 - David advised the club that his skill set was in information sharing and not politics. This assignment would be better placed elsewhere.
 - Jason McCord informed the club that he has been working for 10 years in this area
 - Bringing a program into the schools is a complex process involving meeting with the school boards and individual schools.
 - If you make it to the School Board agenda for consideration you will only have about 2 minutes to state your entire case
 - Johnson City STEM Committee meets in April/May.
 - **NOTE FROM SECRETARY: No one was assigned responsibility for this program**
- **Acknowledgement and Show of Appreciation for Leadership provided by Larry Dale and the previous Administration**
 - Rick Johnson apologized to the club and the team headed up by Larry Dale for not leading with this
 - The previous administration set an extremely high bar of professionalism, contribution and leadership.
 - The programs, initiatives and vision provided by this team will be continued.
 - We are grateful for what they have done.
 - The club gave the outgoing leadership team a hearty round of applause
- **Club Members in Need**
 - John Williams reminded the club that one of our members (Liz Burns) has been hospitalized for an extended period of time at Vanderbilt hospital and moved that the club remember Liz and her husband Ron in our prayers and thoughts.

- It was seconded that the Club secretary obtain a suitable card to send that would allow the Burns family to know that he Club was with them.
- **Club History**
 - Rick Johnson advised the club that our history document has been lost to time and he believes that it is important to gather, capture, recreate our roots.
 - David Gulley confirmed that the “White Binder” which existed some years ago cannot be found.
 - David does have some material that could form the foundation of a new “white binder”: old copies of “Zero Beat’ along with a blue binder containing historical documentation.
 - Rick Johnson assigned David Gully leadership responsibility for gathering up what is available and begin the process of organizing and preserving the material.
 - John Williams and Bob Watts volunteered to assist
- **Winter Field Day**
 - WHEN: 26 and 27 January
 - WHAT TIME: 2 PM to 2PM
 - WHERE: Boones Creek Middle School
 - Come early and help with the setup. Stay over and participate in the fun. Bring your chairs and equipment along with food to share
- **Prepper Meet (Survivalist)**
 - WHEN: 26 January
 - WHAT TIME: 9:00 AM to 2:00 PM
 - WHERE: Fountain of Life Baptist Church (Near Boones Creek Middle School)
 - An invitation and an opportunity to visit, set-up and participate
- **Program for next meeting in February**
 - Neil Weber volunteered to make a presentation on a Pan Adapter
 - How to set up
 - How to use
 - Cost of the unit is less than \$200
- **Change of Responsibility for Kingsport 4th of July Parade**
 - Walt Baldree advised that this function is now run Karen Redmond of the Kingsport Chamber of Commerce
- **Change of Responsibility for Kingsport Christmas Parade**
 - Walt Baldree advised the club that the Downtown Business Association had taken this over.
 - Point of Contact is not known

Adjourn: 8:07 PM

- There being no additional business it was moved and seconded that the meeting be adjourned

Reports and Essays

2019 Winter Field Day January 26/27 www.winterfieldday.com

W4TRC's Contest Summary Report for WFD
Created by N3FJP's Winter Field Day Contest Log
Version 2.1 www.n3fjp.com

Total Contacts = 384

Total Points = 3,024

Operating Period: 2019/01/26 19:10 - 2019/01/27 18:11

Total op time (breaks > 30 min deducted): -32:-25:-34

Total op time (breaks > 60 min deducted): -23:-30:-02

Avg Qs/Hr (breaks > 30 min deducted): -11.8

Total Contacts by Band and Mode:

Band	CW	Phone	Dig	Total	%
80	3	81	0	84	22
40	10	181	25	216	56
20	10	74	0	84	22
Total	23	336	25	384	100

Total Contacts by Operator:

Operator	Total
K4LPQ	237
KJ4ZFK	53
WX4ET	40
KI4AAU	34
N5EES	15
WC5WM	5

Total Contacts by Section:

Section	Total	%
OH	28	7
STX	25	7
MI	20	5
GA	19	5
EPA	18	5
NTX	17	4
IN	14	4
NC	13	3
TN	13	3
WPA	13	3
WNY	12	3
MDC	11	3
VA	11	3
NFL	10	3
OR	10	3
WCF	8	2
AL	7	2
CO	6	2
ENY	6	2
KY	6	2
MN	6	2
NNJ	6	2
WV	6	2
IL	5	1
MO	5	1
AR	4	1
CT	4	1
IA	4	1
ONS	4	1
ORG	4	1
SC	4	1
SJV	4	1
WTX	4	1
WWA	4	1
LA	3	1
ME	3	1
SCV	3	1
SNJ	3	1
BC	2	1

DX	2	1
EMA	2	1
MAR	2	1
MS	2	1
ND	2	1
NH	2	1
NLI	2	1
NM	2	1
NNY	2	1
OK	2	1
SD	2	1
SV	2	1
WY	2	1
AZ	1	0
EWA	1	0
ID	1	0
MB	1	0
MT	1	0
NE	1	0
ONE	1	0
ONN	1	0
PR	1	0
RI	1	0
SB	1	0
VT	1	0
WMA	1	0

Total = 65

Total Contacts by State \ Prov:

State	Total	%
-----	-----	---
TX	46	12
PA	31	8
OH	28	7
NY	21	5
MI	20	5
FL	19	5
GA	19	5
CA	14	4
IN	14	4
NC	13	3

TN	13	3
MD	11	3
VA	11	3
OR	10	3
NJ	9	2
AL	7	2
CO	6	2
KY	6	2
MN	6	2
ON	6	2
WV	6	2
	5	1
IL	5	1
MO	5	1
WA	5	1
AR	4	1
CT	4	1
IA	4	1
SC	4	1
LA	3	1
MA	3	1
ME	3	1
BC	2	1
MS	2	1
ND	2	1
NH	2	1
NM	2	1
OK	2	1
SD	2	1
WY	2	1
AZ	1	0
ID	1	0
MB	1	0
MT	1	0
NE	1	0
RI	1	0
VT	1	0

Total = 46

Total Contacts by Country:

Country	Total	%
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USA	370	96
Canada	11	3
Chile	1	0
Dominican Republic	1	0
Puerto Rico	1	0

Total = 5

Total DX Miles (QSOs in USA not counted) = 99,294

Average miles per DX QSO = 7,092

Average bearing to the entities worked in each continent.
QSOs in USA not counted.

NA = 341

SA = 278

Total Contacts by Continent:

Continent	Total	%
-----	-----	---
NA	383	100
SA	1	0

Total = 2

Total Contacts by CQ Zone:

CQ Zone	Total	%
-----	-----	---
05	181	47
04	157	41
03	43	11
08	2	1
12	1	0

Total = 5

Winter Field Day 2019

Submission form of 2019 Winter Field Day Results

Email address *

k4lpg@outlook.com

Call Sign *

W4TRC

Name or Club *

KINGSPORT AMATEUR RADIO CLUB

Class *

20

ARRL Section *

[TN √]

Power *

() QRP

(X) Low (100 Watts or less)

() High (>100 Watts)

Bonus Points

[X] Emergency Power

[X] Away From Home

[X] Outdoors

[] Satellite QSO

Bonus Total *

[4500 √]

Phone QSOs *

336

Digital QSOs *

25

CW QSOs *

23

Band-Mode Multipliers *

7

A book review submitted by Dave Stevens

The Successful Ham Radio Operator's Handbook

This new book is aimed at new or returning hams to help them understand the practical aspects of the hobby, how to use their radios, build antennas and baluns, and get on the air successfully. In it you will find explanations of how the various parts of your ham radio - the transmitter and receiver – work, plus how these are being implemented using software defined radio technology. Operating techniques for VHF/UHF repeaters, HF radio DXing techniques, and the new digital modes are covered. Radio propagation, antennas, transmission lines, SWR and the mysteries of baluns are explained. Building your HF station, choosing a radio, connecting your radio to a computer, and mobile and portable operation are extensively covered.

Both the pdf and spiral-bound printed versions are available from Lulu.com, and the print copy is also sold by DX Engineering. You can find them via the links below:

<http://www.ke7x.com/successful/ordering-the-successful-ham-radio-operator-s-handbook>

Here is a link that describes the book in more detail:

<http://www.ke7x.com/successful>

Follow us on www.facebook.com/KE7XBOOKS to keep up-to-date on book news and to be notified of book discounts at www.lulu.com.

This book has 267 pages, 211 figures and diagrams, and 53 tables of data to make understanding the sometimes complicated ham radio operations much easier. The book follows KE7X's philosophy of presenting material in several forms to accommodate people with different learning styles -- reading, visualizing, hands-on -- with the many figures and text explanations and there are hands-on exercises throughout the book that can help you learn more about your particular radio.

Follow us on www.facebook.com/KE7XBOOKS to keep up-to-date on book news and to be notified of book discounts at www.lulu.com.

One instructor for new and advanced ham classes has said, "This book is exactly what is needed. I've seen some other books targeting the new hams that are less than satisfying both technically and in content but this one is right on the mark and covers so much information that I so often get asked about, during and after teaching classes."

Here are more details on the content:

- With nearly 110 years of ham radio experience between them, the authors are still excited about the challenges this wonderful hobby offers. *The Successful Ham Radio Operator's Handbook* will guide you when exploring some of these.
- Its goal is to help new operators and returning old-timers learn about the breadth of exciting ham radio activities and challenges available today.
- It answers the question "Why is ham radio relevant in the Internet age?"
- It covers a wide range of topics, helping the reader to understand the excitement of different facets of ham radio and to choose a challenging and exciting activity to pursue.
- It helps the reader better understand how the radio works. Many hams only use a small fraction of the features of their radio. For example, if you understand how a noise blanker or a roofing filter or the AGC works, you will be able to more easily use these, and other, features of your radio to your benefit.
- It provides exercises designed to apply the knowledge to cement your understanding of how your radio works without being radio-specific. It is good for all makes and models.

- It helps the reader get enough background to understand much of the jargon hams who pursue special activities, such as the various digital modes, VHF contesting and moon bounce. It quickly takes the novice reader to higher level of understanding and provides URLs and websites that help the reader go deeper into new interests.
- Antennas remain a key area where all hams can still successfully experiment and create a key part of their station. This book provides information to help new hams get started cutting their own verticals and dipoles. It explains why some popular multiband antennas may have compromises that impact performance.
- It gives practical guidelines about choosing transmission lines and building and using baluns and chokes.
- Digital modes such as RTTY, PSK and the new WSTJ modes are explained. The computer-to-radio connections needed for these modes are discussed and illustrated.
- Many hams are motivated by public service and emergency preparedness. This book describes typical local emergency organizations and national networks.
- Hams who like to operate while traveling will find practical information on reciprocal international agreements and how to get permission to operate legally.

THE ZERO BEAT NEWSLETTER

Is published monthly by the Kingsport Amateur Radio Club and Bay's Mountain Radio Club. For more information on the Zero Beat, please contact: Carl Hacker at WC5WM@arrl.com.

Kingsport/Bays Mountain Radio Clubs' Officers 2019

Rick Johnson: WB4RLJ, KARC President

Chuck Short : KK4JHL, KARC Vice President

Robert Watts: KM4VMZ, KARC Secretary

Neil Weber: KM4NWH, KARC Treasurer

Dave Stevens: WB4DES, KARC Deputy Treasurer

Klotz W4IJK Club Repeater License Trustee

Rick Light: KG4WZG, BMRC Vice President Dave Stevens: WB4DES,
W4TRC Webmaster Web Site: www.w4trc.org

W4TRC 146.970 MHz REPEATER INFORMATION:

Location is on Bays Mountain, Kingsport, TN

2 Meter repeater: 146.970 MHz, (-) PL Tone, 123.0 Hz.

440 Repeater: 443.325 Mhz. (+), PL Tone, 123.0 Hz.

33Cm. Repeater: 927.025 Mhz. (-) PL Tone 123.0 Hz.

Sunday Night Informational Net on 146.970 at 8:30 P.M. EST

For More Information on the KARC/BMRC and Amateur Radio, Visit
our Club Website at www.w4trc.org

For More Amateur Radio News, Visit the American Radio Relay
League Website at www.arrl.org

A.R.E.S.

Walt Baldree, K4YCP, West Sullivan County ARES® Coordinator

Net Schedules (as off 10/23/2018)

Kingsport Amateur Radio Club/Bays Mountain Radio Club weekly two-meter net, Sunday night at 8:30 p.m., on the W4TRC repeater at 146.970 Mhz. The net includes ARES® check-ins and an opportunity to sell, buy and/or swap equipment.

The Boone Trail ARES®/RACES Net is held each Monday night at 8:30 pm on the 146.820 MHz KF4VTM repeater. A C4FM digital Fusion net is held on Thursday evenings at 8:30 pm on 146.820 except for the 3rd Thursday.

The Carter County Amateur Radio Association (CCARA) repeater is WR4CC on 145.290 MHz, with a tone of 103.5. The club holds a net every Monday evening on their repeater at 8:00 pm.

The Johnson County Net is Monday at 9:00 PM on 145.290 MHz with a 103.5 tone or direct on 146.610 MHz with the same tone (103.5). 6-meter Net every Thursday at 8:30 p.m. The Net is at 53.330 MHz, and the repeater has a tone of 103.5.

Johnson City Amateur Radio Association's Net is held on Tuesdays at 8:00 p.m. on the 146.790 MHz Repeater. Tone is 131.8 with a negative offset. This net is not held on the 3rd Tuesday, the night of the JCARA's monthly meeting.

Bristol Amateur Radio Club's 2 Meter net meets every Tuesday night at 9:00 PM on the 146.070/670 Bristol Repeater.

Mountain Empire Amateur Radio Society's 440-net, Wednesday at 9:00 p.m., on the 443.00 Repeater. Everyone is invited to check in.

Unicoi County Amateur Radio Association's Net, Thursday at 8 pm on 147.270 MHz. Except for the first Thursday of the month which is the Club Meeting.

Area Amateur Radio Clubs/Organizations Meetings

Bristol Amateur Radio Club meets the first Thursday of each month at 7 pm in the Conference Center at the Bristol Memorial Medical Center. Take exit 74 off Interstate 81 in Tennessee. For more information, email w4ud@qsl.net

Carter County Amateur Radio Association meets the first Tuesday of each month at 7 pm at 805 Highway 91, Elizabethton, TN (0.5 miles past the 2nd traffic light on Hwy 91 or 3.5 miles from Hwy 19E on the left side of the highway).

For more information go to the Club's web page at <http://www.wr4cc.org>

Johnson City Amateur Radio Association meets the 3rd Tuesday of each month at 7 pm at the Washington Co/Johnson City EMS Training Building 296 Wesley Street Johnson City, TN 37601. Contact JCARA, 240 Hartman Road, Jonesborough, TN, 37659.

Kingsport Amateur Radio Club/Bays Mountain Radio Club meets the second Thursday of each month at 7 pm at the Toy Reid Eastman Employee Center, South Wilcox Drive, Kingsport, TN, unless meeting changes are made due to Eastman related activities. For more information email w4ijk1@gmail.com .

The Mountain Empire Amateur Radio Society (MEARS) meets the third Thursday of each month at 7 p.m., at Washington County Public Library in Abingdon, VA, with possible exceptions in November and December. For more information, visit their website at http://www.home.earthlink.net/~mears_arrr/

Scott County (VA) Amateur Radio Society meets the third Thursday of each month at 7 p.m., at the EOC Building behind and under the

Lonesome Pine Regional Library, Gate City, VA. For more information, email Jeff K4LMP at k4lmp@k4lmp.org

Unicoi County Amateur Radio Association will be moving the meetings to Maple Grove Restaurant in Unicoi. This change will take place Feb. 5, 2015. The weekly ARES nets will change to Thursday evenings at 8pm as of Thursday December 11, 2014. For more information contact Ken Johnson at w3gfmkj@gmail.com

Johnson County Amateur Radio/Ares club meets the second Tuesday of each month at 7 p.m., at the Johnson County Hospital Conference Room. For more information contact Danny Herman at K4DHT@dannyherman.com