



SPECTRUM



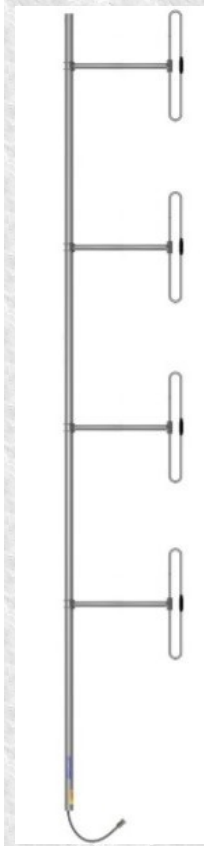
The Voice of the Humble Electron

Founded 1962



In this issue

- ▶ March & April 2019 Meeting Notes & Photos
- ▶ New antenna installation for the MARA (Massasoit Amateur Radio Association) 147.180 Repeater
- ▶ Ham Radio Local Area Nets by Barry N4NMF



Whitman Amateur Radio Club Meeting 03/06/19



Paul Moss KB1MTW **Larry Kenney W1VP** **Jeff Tracy N1SOM** **Joe Amorelli K1JMA**
Vice President Secretary Treasurer President

ATTENDANCE: 34 members and guests were present including 4 elected officers

KB1MTW Paul Moss	N1SOM Jeff Tracy	K1JMA Joe Amorelli
KB1OEQ Ron Stundze	WK1D Jeff Ayres	W1OD Steve Cohn
N1QE Jack Foley	N1POO R. Pete Carlson	KB1WNX Steve Lyons
KC1KIU Gabriel Newman	KC1ITF Mark Hirtle	KC1EUJ Kurt Sundwell
W1AEM Matt Kane	W1JGR John Ruppel	KC1ALO Don Wettergreen
W1JDG John Ginsberg	N1BSO John Laiosa	W1EKG Ross Hochstrasser
N1ZZN Jeff Lehmann	WA1TOM Tom Luckman	WA1BEE Allen Hiltz
WI1G John Murphy	N1CFB Chris Babbitt	KB1FBA Bob Mahoney
WA1MAD Mike Davis	WA1YKF Warren Dickie	KA1KIJ Bob Azanow
KB1OEP Mike Supple	KG1U Mike Bennett	W1MBH Scott Mitchell
WD1L John Nelson	W1GTX Paul DeLory	W1AZU Heather DeMont
K1WGU Bob Bass		

Secretary's Report:

Special thanks for **Jack N1QE** for filling in as temp secretary for most of this meeting. Much appreciated Jack!

President **Joe Amorelli K1JMA** called the meeting to order at 7:02 pm 03/06/19
A quorum was present.

The Pledge of Allegiance was recited, followed by an attendance roll call.

Treasurer **Jeff N1SOM** presented the February 2019 treasures report. Motion to accept as read made by **Jeff WK1D** with a second by **Steve W1OD**. Motion passed quorum vote.

Joe K1JMA indicated the February 2019 meeting notes were published on the club website. Motion to accept as published made by **Steve W1OD** with a second by **Jeff WK1D** Motion passed quorum vote.

Weekly Public Service Net Control volunteers for March 2019:

- **March 10th: Paul W1GTX**
- **March 17th: Jeff WK1D**
- **March 24th: Jeff N1SOM**
- **March 31st: Mike KB1OEP**

Health & Welfare

Joe K1JMA announced **Richard AG1B** would be handling Health & Welfare actions for the club going forward. Many thanks to **Elayne KB1IKH** for handling the clubs Health & Welfare actions in the past. Great job Elayne! Thank you very much on behalf of the club membership.

New Members: **Joe K1JMA** and **Jeff N1SOM** presented a new member application in good standing from **Ryan Kelly KC1KVV**. Motion to accept as a new member made by **Mike KB1OEP** with a second by **Jeff WK1D**. Motion passed quorum vote. Welcome to the club Ryan!!

New Business

Joe K1JMA announced the need for a committee chairperson for the upcoming NEARFest event in early May. Please see **John W1G** if interested.

Joe K1JMA reviewed the current committee chair positions:

- Repeater committee chair: **Jeff N1ZZN**
- Marshfield Fair committee chair: **Jack N1QE**
- Field Day committee chair: **Mike WA1MAD**
- Training committee chair: **Ross W1EKG**
- Budget committee chair: **Jack N1QE**
- WinterFest 2020 committee chair: TBA

(Note: **Chris N1CFB** announced he is stepping down as WinterFest chairperson next year. Thanks Chris for chairing this committee the first few years of the events operation!)

Joe K1JMA and **Jack N1QE** provided an overview of the clubs 2019 budget, which was accepted with adjustments. Several discussions took place during the budget presentation including a motion from the club membership to raise the yearly dues. **Joe K1JMA** informed everyone this motion would not be entertained at this club meeting, thus providing the opportunity for all club members to be informed of this motion and an upcoming membership vote, most likely at the April club meeting. Club members also inquired about the details of filing 990's w/the IRS.

Kurt KC1EUJ reminded everyone of the Lewiston Maine Ham Fest on March 29th and 30th. Details can be found at: <http://www.w1npp.org/pages/MEConvention2019.html>

Jack N1QE reminded folks of the South Shore Model Railway Club show and open house on March 9th and 10th in Hingham MA. Flyers are available at the front table.

Joe K1JMA announced a change in club leadership with this years officer elections. Joe announced he, **Jeff N1SOM** and **Larry W1VP** will not be accepting nominations for their current officer positions this year. Joe, Jeff and Larry each briefly explained their reasons for this decision. Joe provided further details to the membership regarding the officer rolls.

Jeff N1ZZN inquired about the state of the clubs operation and the roll the recent non-profit 501(c)(3) adoption plays. A lengthy discussion took place, with several members providing examples of their experiences with 501(c)(3) non-profit organizations.

Motion to adjourn made by **John W11G** with a second by **Steve W1OD**. Motion passed a quorum vote. **Joe K1JMA** adjourned the meeting at 9:07pm, 03/06/19

End Secretary's Report.

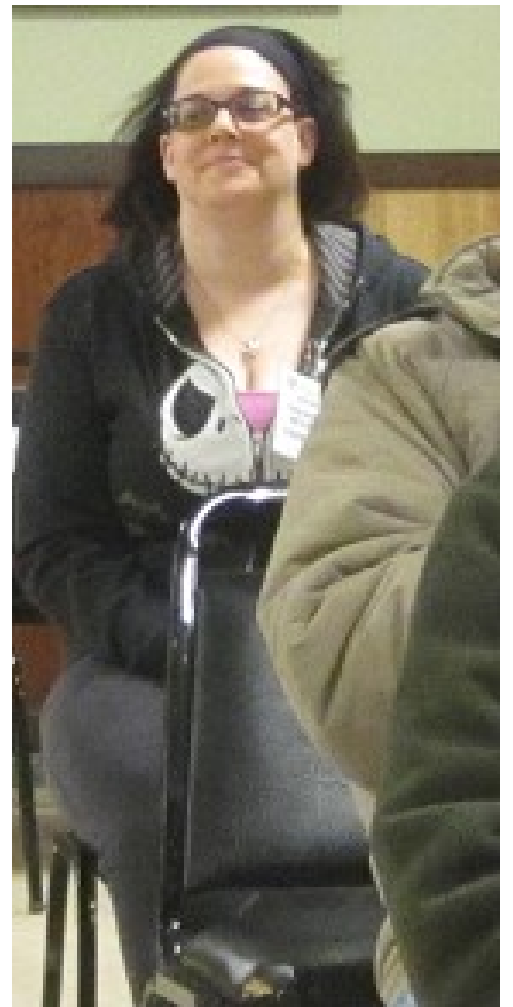
Whitman Club Meeting

March 6th , 2019

Photos by Jeff WK1D







Whitman Amateur Radio Club Meeting 04/03/19



Paul Moss KB1MTW
Vice President

Larry Kenney W1VP
Secretary

Jeff N1SOM
Treasurer

Joe Amorelli K1JMA
President

ATTENDANCE: 49 members and guests were present including 4 elected officers

W1VP Larry Kenney	KB1MTW Paul Moss	KB1OEQ Ron Stundze
WK1D Jeff Ayres	KB1MOC Kevin Dykes	W1JGR John Ruppel
WG1L Jim O'Rourke	N1IQI Loren Pimentel	AG1B Richard Metcalf
KC1GMN Bill Healey	KA1ESN Bob Fisher	W1EKG Ross Hochstrasser
KC1FZI Joe D'Antonio	WI1G John Murphy	N1CFB Chris Babbitt
WA1MAD Mike Davis	KC1FZ George Davis	N1OYH Carl Davis
WA1YKF Warren Dickie	KA1KIJ Bob Azanow	W1AXB Matt Paine
KC1JSL Ben Fletcher	KB1WNX Steve Lyons	N1LQK Dave Kaplan
KB1CHU Stephen Black	K1WGU Bob Bass	WA1BEE Allen Hiltz
W1EDR Eric Dresser	W1LJM Frank Sheputa	W1WAG Wayne Galvin
SWL Bob Keane	KG1U Mike Bennett	N1PAU Paul Leavitt
W1MBH Scott Mitchell	N1BSO John Laiosa	KC1ITF Mark Hirtle
W1GTX Paul DeLory	K1UFO Billy Robinson	K1FAB Fred Birtwell
KB1ODS John Chase	KC1KIS Robert Kirkaldy	KC1ACF Mark Vess
KB1PFL Jim Madden	N1POO R. Pete Carlson	KB1SVY John Duprey
W1AZU Heather DeMont	KC1EFF Randy Mills	KC1JYZ Charles Prillaman
N1SOM Jeff Tracy		

Secretary's Report:

President **Joe Amorelli K1JMA** called the meeting to order at 7:04 pm 04/03/19
A quorum was present.

The Pledge of Allegiance was recited, followed by an attendance roll call.

Treasurer **Jeff N1SOM** presented the March 2019 treasures report. Motion to accept as read made by **Jeff WK1D** with a second by **Jim WG1L**. Motion passed quorum vote.

Larry W1VP indicated the March 2019 meeting notes were published on the club website. Motion to accept as published made by **Jeff WK1D** with a second by **Richard AG1B** Motion passed quorum vote.

Weekly Public Service Net Control volunteers for March 2019:

- **April 7th : Richard AG1B**
- **April 14th: Paul W1GTX**
- **April 21st: Ross W1EKG @CranLand**
- **April 28th: Jeff WK1D**

Health & Welfare

Joe K1JMA announced **Richard AG1B** would be handling Health & Welfare operations for the club going forward. Richard addressed the club members with his thoughts on Health & Welfare. Richard asked he be contacted either by phone or email if anyone has Health & Welfare info for the club. **Mike WA1MAD** mentioned club member **Steve N1STV** recently had surgery and is currently recovering.

New Members: **Joe K1JMA** and **Jeff N1SOM** presented new member applications in good standing from **Ted Wojcik KC1JMZ** and **Richard Moore KC1FPM**. Motion to accept as a new members made by **Jeff WK1D** with a second by **Ross W1EKG**. Motion passed quorum vote. Welcome to the club Ted and Richard!!!

Committee updates:

- **Ross W1EKG** updated everyone on the recently started Technician class he and **Rich WA1RIW** are now teaching. Ross estimated 4-7 folks are attending the class. A VE test session is planned for Tuesday April 23rd.
- **John N1BSO** and **Kevin KB1MOC** provided a repeater update. John commented the repeater seems to be working fine. Kevin noted the installation of our 2M antenna at the repeater site has been include in a future scope of work at the site.
- **Jack N1QE** commented on the August Marshfield Fair event running from August 16th-25th. Jack mentioned planning/organizing is ongoing, including adding a side screen/tarp to prevent excessive sun exposure at the booth.
- **Mike WA1MAD** updated everyone on the planning for the June ARRL Field Day event on June 22nd-23rd, including his efforts to reach out to the YMCA management. **Kevin KB1MOC** indicated he will be able to bring a mobile communication station trailer this year rather than the mobile command post vehicle he brought last year.

New Business

Joe K1JMA again announced the need for a committee chairperson for the upcoming NEARFest event in early May. The club also needs equipment donations. **Paul KB1MTW** will put together a new list of equipment currently at the Quonset hut.

Joe K1JMA reminded everyone of the need for a committee chairperson for WinterFest 2020.

Mike WA1MAD mentioned several upcoming events:

- Saturday April 27th 9am-4pm Boy Scout event on the USS Massachusetts.
- Fr-Sun May 31st-June 2nd Museum Ships On The Air on the USS Massachusetts
- To volunteer for either/both of these events, please contact **Rick KB1TEE** via email at kb1tee@gmail.com
- Mike also mentioned on the 4th Thursday of the month there's a 900MHz/DMR dinner at the Red Tea Garden restaurant, 5pm at 202 South Meadow Rd in Plymouth. This months dinner takes place on April 25th. Mike notes, often radios are programmed at this dinner.

Joe K1JMA mentioned the April and May business meetings are when officer and director nominations are made. Joe called for any club nominations from the membership. **Paul KB1MTW** mentioned he would entertain a nomination for VP but not president. **Jeff WK1D** nominated **Jack N1QE** for the treasurer position. **Jack N1QE** did not accept this nomination at that time. **Ron KB1OEQ** nominated **Paul KB1MTW** for the VP position. There were no further nominations.

Joe K1JMA provided general thoughts regarding future plans for the club, noting both positive and negative feedback received from some members so far, with both being considered equally. Joe expressed setting expectations that changes are needed to both maintain the current club operation and expand operations for future club growth with commitment from club members playing a key role. Joe noted this is best done by volunteering to serve on one or more club committees, which drives the clubs operation and direction. Joe further noted that after review and approval of the clubs 2019 annual budget at last months meeting, multiple motions by club members were made to increase the clubs annual membership dues. These motions were not entertained at that meeting so that all club members could be notified prior to this motion being entertained and voted upon at the following months meeting (this meeting). Another ask from last months meeting by club members was for the budget committee to present the current financial status of the club relative to the current membership dues and potential future club growth details.

This led into a detailed 2019 club budget presentation by the budget committee chairman **Jack N1QE** and committee member **Joe K1JMA**. During the presentation, many club members asked questions and offered opinions. During the presentation a motion by **Allen WA1BEE** w/a second by **Mark KC1ACF** was made to raise the dues to \$55. The discussion continued which included an amending motion by **Ben KC1JSL** with a second by **Mark KC1ACF** to raise the dues to \$60/year. The discussion continued until **Mark KC1ACF** requested a move to vote. At that time, **Joe K1JMA** asked for vote by a show of hands (club badges) for a raising of club dues as of January 1st, 2020 to \$60/year. All in favor count: 28, all apposed: 12. Motion passed quorum vote.

Motion to adjourn made by **Ben KC1JSL** with a second by **John W1JGR**. Motion passed a quorum vote. **Joe K1JMA** adjourned the meeting at 8:30pm, 04/03/19

End Secretary's Report.

Whitman Club Meeting

April 3rd, 2019

Photos by Jeff WK1D





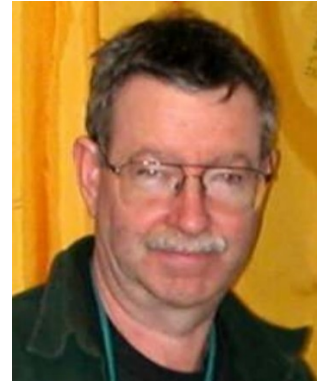


MARA : Massasoit Amateur Radio Association **March 18th, 2019 New Antenna Installation Report**

by Phil N1XTB

Phil N1XTB is the *MARA club treasurer, repeater trustee and a member of the clubs repeater advisory board.*

The following article is reprinted from the April 2019 Massasoit Amateur Radio Associations April 2019 newsletter, with permission. Photos used, with permission, from the MARA website: <http://www.w1mv.org/tank3.htm>



Repeater Work Summary

It took a lot of people to make the .18 repeater repair happen.
(ed: 147.180 +PL67)

Tom, WA1TOM took drone pictures of the damage at the top of the tank (ed:Bridgewater State Univerisy Water Tank, Bridgewater MA). **Gary AB1CQ** and **Jeff N1ZZN** provided technical input on the replacement antenna. **Phil N1XTB** made the purchase and shipping arrangements with Sinclair antenna in Canada. **Jim W1JT** offered the space to accommodate the antenna until it was installed. He received and stored the new Sinclair antenna when it was shipped down from Canada. Arrangements were then started for a climbing crew.

It then took months to line up a crew to do the climbing.

Finally, crew choice number 4, recommended by **Jeff N1ZZN**, were able to squeeze the work into their schedule with the weather co-operating. An insurance certificate and prior notice had to be given to the water department before the work started.

Jeff N1ZZN went to the repeater on St. Patricks day, the day before the scheduled work, and prepared his GP9 and the mesh node pole with omni antenna and the Ubiquity 2.4 GHZ "bullet".

Steve Barbrick with his crew came down from Merrimack MA the following day to do the work. They picked up the Sinclair antenna at **W1JT's** shop in Abington on their way down.

Tim, the chief operator from the Bridgewater Water department unlocked the man trap and provided a tall enough extension ladder to reach the bottom of the water tank ladder.

Gary AB1CQ, **Richard AG1B**, and **Phil N1XTB** were onsite for the work. Richard took a great set of pictures.

The new antenna's and mesh node were hauled up. The old black antenna and what was left of the damaged antenna were lowered. Shielded Cat5 cable was fed off the spool provided by **Phil N1XTB** and connected to the mesh node. **Gary** ran the test equipment to check out RF performance on the GP9 and Sinclair. The new antenna's were placed in service that afternoon 18 Mar 2019. **Jeff** came by later and placed the Kendecom 2 meter amplifier in service. Another work party on Saturday 23 Mar with **Jeremy KB1REQ**, **Jeff N1ZZN**, **Gary AB1CQ** and **Phil N1XTB** did some troubleshooting of the mesh node, and tuned the amplifier to perform at 95 watts as measured at the cans.

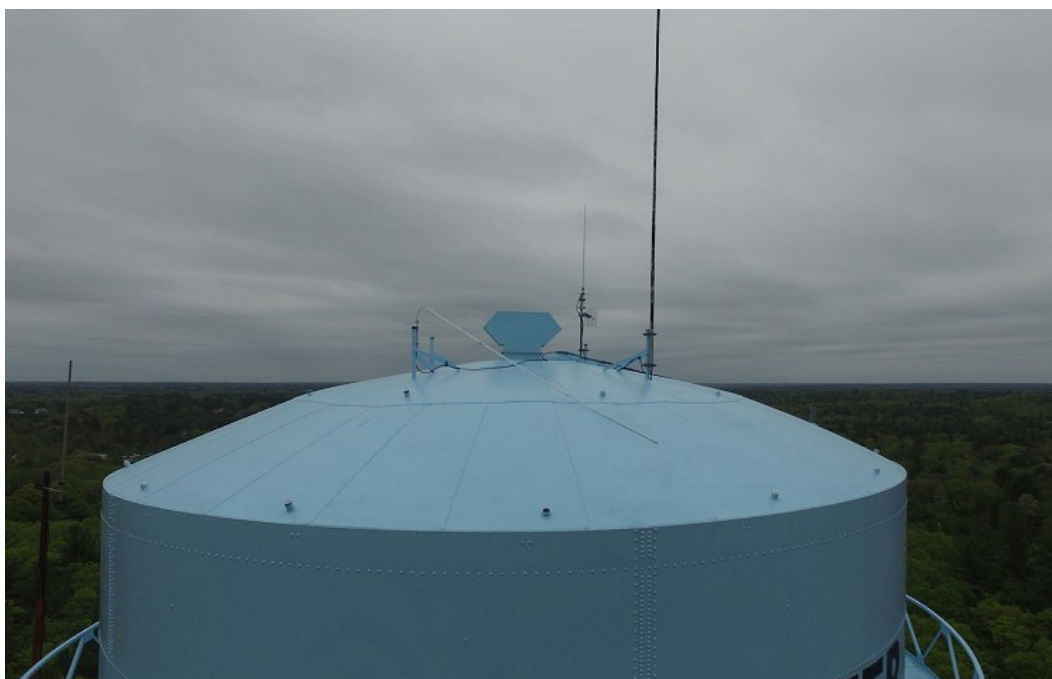
Backup DC power was wired to the Kendecom amplifier also. When simulating lost AC power (amplifier on DC) the output at the cans is 25 watts. Some badly needed cleanup of the repeater shack was also accomplished, This is how the top of the tank looked after work was complete.



More pictures of the repeater work are available at: <http://www.w1mv.org/tank3.htm>

Several photos from this website included here:

(Photos courtesy of Tom **WA1TOM**, Phil **N1XTB** and Richard **AG1B**)



Top of the tank in May 2018. Our best antenna was snapped at the base and laying over.



What was left of our previous best antenna



First climber up the ladder

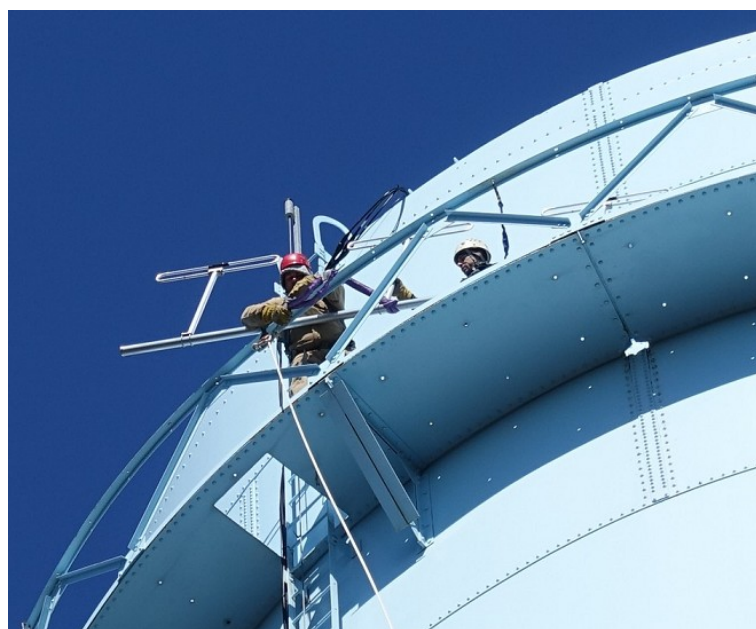


Hoisting the mesh network omni antenna, pole and Ubiquity 2GHZ bullet



Rigging the Sinclair antenna. The new .18 repeater antenna is a Sinclair SD214-SF2P2SNM(D00) 4 dipole, 8.0 dBd, bi-directional, N-Male, 138-174 MH

ed: Note/fyi: Spec for this antenna available at:
<http://www.sinclairtechnologies.com/catalog/product.aspx?id=4171>



Sinclair antenna on its way up



GP9 antenna on the catwalk with crew



Lowering the black antenna - previously used for .18 transmit



From left to right, Dual Band Comet GP9 (for packet), Sinclair antenna, 70 cm



Tank from a distance

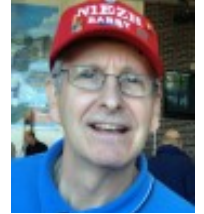


View of the top of the tank after work complete

Thanks to **Phil N1XTB** for making his report and the site pictures available for reprint in this Whitman club newsletter. Congratulations to the MARA team for bringing back the 147.180 repeater to full use with a great operational area of coverage along with new Packet and MESH network antenna systems.



HAM RADIO LOCAL AREA NETS



If you know of a Ham Radio Local Area Net that is not listed here, a typo on the information, or a Net listed which is no longer active, please contact Barry – N1EZH at: N1EZH@comcast.net , so this list can be updated. All Frequencies are in MHz and 6 Meters (50.0 MHz and up.), are FM Mode unless otherwise noted. Thanks!

Sunday: **WA1NPO – WARPSN Net, 8:30 AM, Whitman ARC Rptr, 147.225 +, PL 67.0**
6 Mtr AM Net, 5:00 PM, 50.400.0 AM, Scituate
NE Cracker Barrel Net, **7:00 PM Daily** (Matt – W1AEM, NCO on Sun), 3.921.00 MHz LSB
Pilgrim Amateur Wireless Assoc. 10 Meter Net, 7:00 PM, 28.375.0 USB
Cape & Island Traffic Net, Every Night at 7:30 PM, Falmouth N1YHS Rptr, 147.375 + PL 110.9
Genesis ARC CW Training Net, 7:00 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 82.5
Eastern MA 2 Mtr Traffic Net, Every Night at 8:00 PM, Boston W1BOS Rptr, 145.230 – PL 88.5
Norfolk County Radio Association Net, 8:00 PM, Walpole Rptr, 146.895 – PL 123.0

Monday: Cape and Islands Weather Net, 6:00 AM, Mon – Sat, Dennis K1PBO Rptr, 146.955 – PL 88.5
Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0
Norfolk County Emergency Preparedness Net, 8:00 PM, Walpole Rptr, 146.895 – PL 123.0
Falmouth ARA Net, 7:30 PM, Falmouth K1RK Rptr, 146.655 – PL 88.5
Boston ARC Rag Chew Net, 9:00 PM, Boston W1BOS Rptr, 145.230 – PL 88.5

Tuesday: Massasoit ARA Net, 8:00 PM, Bridgewater W1MV Rptr, 147.180 + PL 67.0 (Except 3rd Tue!)
Genesis ARC 2 Mtr Rag-Chew Net, 7:30 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 82.5
Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0
Norwood Amateur Radio Club Net, 8:00 PM, Norwood Rptr, 147.210 + PL 100.0
220 MHz Day! Try to find a 220 Repeater near you and give a call out!

Wednesday: Taunton ACG, KC1TAC, 2 Mtr Simplex Net, 8:30 PM, 145.770
Whitman ARC 10 Meter Rag-Chew Net, 8:00 PM, 28.333.0 USB (Except 1st Wed!)
Blackstone Valley ARC , 2 Mtr Simplex Net, 7:00 PM, 146.565
Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0
Cape and Islands ARES Net, 8:00 PM, Dennis K1PBO Rptr, 146.955 – PL 88.5
Waltham Wranglers Swap Net. 9:00 PM, Waltham W1MHL Rptr , 146.64 – PL 136.5

Thursday: Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0
Genesis ARC CW Training Net, 7:00 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 82.5
10 Mtr General Class Rag-Chew Net, 8:00 PM, 29.470.0 FM
Sturdy Mem. Hosp. ARC ARES Practice Net, 8:30 PM, K1SMH Rptr, 147.195 + PL 127.3
900 MHz Day! Try to find a 900 Repeater near you and give a call out!

Friday: Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Saturday: South Shore Skywarn Net, 8:00 PM, Bridgewater W1MV Rptr, 147.180 + PL 67.0
VKEMCOMM Echolink Conference node: 270177/IRLP 9508 (due to *WX-TALK* Echolink conference node: 7203/IRLP 9219 outage) Refer to: <http://www.voipwx.net/>

The **WARPSN** NET meets every Sunday morning at 8:30 a.m. on the Whitman REPEATER 147.225 MHz (PL 67). Come join in and share your amateur radio related activities with the other area HAMS and short-wave listeners as well. We need your updates for the newsletter.

As part of our training, we encourage everyone to practice sending routine RADIOGRAM messages. Make up a National Traffic System (NTS) traffic message and send it to a friend. We also encourage everyone to try your hand at Net Control. Contact **Bill N1FRE** for a Net Control handout or visit our website at:

www.wa1npo.com and follow the link for the Sunday Public Service Net
(http://www.wa1npo.org/index.html#Sunday_Public_Service_Net_Control)



MEETING SCHEDULE

Meetings are held on the first
Wednesday of each month

The next meeting will be held at the
Whitman Knights of Columbus, which is
located at 1195 Bedford Street
(Rt. 18) in Whitman, Mass.

NEXT MEETING

Wednesday, May 1st 2019
Whitman Knights of Columbus

NEXT MOTA/Repeater MEETING

Wednesday, May 15th at 7:30 p.m
on the Whitman 147.225 repeater

Club REPEATER 147.225 MHz PL 67

Club IRLP Node 8691

Club EchoLink: WA1NPO-R Whitman MA USA

Club EchoLink Node 484193

CLUB OFFICERS

President	Joe Amorelli	K1JMA
V. President	Paul Moss	KB1MTW
Secretary	Larry Kenney	W1VP
Treasurer	Jeff Tracy	N1SOM
Director	Jack Foley	N1QE
Director	Mike Davis	WA1MAD
Director	Richard Metcalf	AG1B
Director/		
Past President	John Murphy	WI1G
Health/Welfare	Richard Metcalf	AG1B

Chairperson Repeater committee

Jeff Lehmann N1ZZN

E-Mail: n1zzn@comcast.net

Chairperson Training committee

Ross Hochstrasser W1EKG

E-Mail: bavarianradio@comcast.net

Chairperson Assett / Equipment committee

Paul Moss KB1MTW

E-Mail: pm.moss@comcast.net

Newsletter Editor

Larry Kenney W1VP

Email: LJK320@netscape.net



WHITMAN AMATEUR RADIO CLUB, INC.

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Club Call Sign: WA1NPO

