

Loudoun Amateur Radio Group

Regular Meeting Notes November 21, 2020

Venue: Due to the ongoing national health crisis, the meeting was held virtually using Google Meet

- 8:00-8:35 The Google Meeting connection was active for informal discussions.
- Pledge of Allegiance
- President welcome and meeting overview.
- Jim N4FAF reported that the minutes from the October meeting can be accessed via the club web site. The message is distributed using the club email reflector to allow club members to indicate their attendance of the virtual meeting will not be used this month. A snapshot of the meeting participants will be used.
- Steve KN4HOZ presented the Treasurer's report.

The starting balance was \$8,356.43. There were deposits amounting \$40 during the month. Current club treasury balance: \$8,396.43.

- Elections for club officers and members of the Board of Directors will occur in January. There is a need to fill vacancies in club officer and Board member positions. Requirements for membership on the Board include five years as a member of LARG and an Amateur Extra class license. See section 3 of the club bylaws for additional requirements. Send an email message to leadership@k4lrg.org if you would like to be considered for the Board or an officer's position. The ballot will be finalized at the club meeting on December 19.
- Elections will be held electronically through the Internet. The election will be implemented using the technology from the website electionbuddy.com. Members will need to pay dues for 2021 by January 2, 2021 to receive a ballot for the annual election. A message containing known email addresses and cell numbers will be sent through the club email reflector. Any discrepancies should be reported to the club secretary.
- Steve KS1G reported that the club has an opportunity to receive a trailer from a club in southern Virginia. The trailer has a satellite antenna system mounted on it. The current owner wants to donate the trailer to another club that has a 503(C) status. Other clubs are trying to receive the trailer. It will be stored at Steve's QTH if it is donated to our club.

It is possible that the ARISS contact in the near future will be a telebridge event. Steve is following progress of the project to determine what support if any will be required from our club.

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- Paulson KG4TIG reported that there is a new UHF repeater in Sterling. The frequency is 449.375 with negative offset. It supports C4FM operation as well as analog FM. A PL Tone of 110.9 Hz is required when using an analog signal.
- Ideas for presentations during the monthly club meetings should be sent via email to vicepresident@k4lrg.org.
- Bob Heil K9EID of Heil Sound joined the virtual meeting. He presented information about his personal history and the products available from his company. Bob received a Hammond organ when he was young. He became an accomplished organist and a keen interest in music. He also became a ham as a young man. Much of his early operating occurred on six meters. He developed a Spiralex antenna that helped to compensate for changes in polarization in the received signal. Bob indicated that he built the first transverter for six and two meters. He wrote a column in CQ magazine in which he presented material in the subject of VHF operations. Bob combined his interest in electronics with music when he learned to fix guitar amplifiers. He developed the first talkbox to modulate the sound of a guitar with a signal from the human voice. Information about Fletcher-Munson curves developed at Bell Labs to describe how audio signals of various frequencies are perceived with equal loudness.

It was noted that 2.5kHz is the magic frequency to emphasize articulation of human voice sounds. Ham radio audio can be further clarified by rolling off audio response below 100 Hz and above 6 kHz. All microphones should be used for transmission by keeping them approximately 2 inches from the face. Some of the Heil Sound product line was presented with the emphasis on operation with ham radios.

Bob reported that he has worked with many of the major ham radio manufacturers to design in equalizer circuits for HF radios. Information about setting up the equalizer settings can be found on the web page www.heilsound.com/support.

- The meeting adjourned at 11:00 AM.
- Attendance

KE4S	Dave
KT9N	Chris
KD4BK	Barry
KJ4NXG	Bob
KU4FT	Chris
W4PMP	Chris

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KF4TJJ	Carol
KF4TJI	Denny
K4AIU	Doug
KK4WXO	Ed
K4FWD	Frank
KI2H	Harry
AB3KC	Collins
KN4OGS	James
N4FAF	Jim
W0MPM	John
WB2UNA	John
KI4AD	Evan
N4TGA	Merc
N4PDY	Mike
KN4ANI	Mike
KG4TIH	Paulson
N1RM	Rick
KS1G	Steve
N1ESD	Steve
KN4HOZ	Steve
K9TRE	Tareck
KK4RNV	Val
AK2M	Kevin