

Loudoun Amateur Radio Group  
Regular Meeting Notes September 17, 2022

Venue: Holy Trinity Lutheran Church in Leesburg

- Call To Order at 8:35 am.
- Pledge of Allegiance
- Jim N4FAF reported that the minutes from the July meeting can be accessed via the club web site.
- John W0MPM was absent, so Mike N4PDY reported that the bank account balance was \$10,900. There was no activity during the previous month.
- Dave KE4S announced that an amendment to the club constitution will be voted on at the October club meeting. Since two-thirds of the voting membership must approve any changes to the constitution, voting will be solicited via email prior to the October meeting. Note that this will not be a secret ballot.
- Jim N4FAF remarked that the club support for the Reston Bike Club Century Ride as a success.
- Kurt KI4FWB will coordinate club support for the Lovettsville Oktoberfest event. The Signup Genius web site will be used to coordinate volunteers for the various positions.
- Dave WA4TXE is the owner of the Leesburg repeater that was used during the Reston Bike Ride. He noted that the Leesburg repeater on 146.700 is linked to the repeater in Charlestown on 146.850. The two repeaters are linked using a UHF frequency that is coordinated with T-MARC.
- Gene N3EV presented material on battery technology. Lithium batteries are used for long term storage with devices. The shelf life of a lithium battery is 20 years. Batteries should never be stored in devices unless the device must be accessed quickly. The non-rechargeable lithium cells should be used because they have a higher power density.

AA sized lithium cells should be used for all applications. Sleeves are available to adapt the AA size cells to C and D cell applications. D cell sleeves should be purchased carefully because the cells may be wired in series or in parallel.

When lead acid batteries are used, deep cycle rated batteries should be purchased. The deep cycle technology allows the battery to be more deeply discharged without significant damage to the battery. Devices are available that allow a lead acid battery to be connected to the main charging system of a vehicle. The device charges the battery when the vehicle is running and allows the load device (such as a radio) to use the battery when the vehicle is off.

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Devices are available to step up the nominal 12-volt output of a battery to 24 volts for use with devices that require it. There are also devices available that will provide the maximum 13.8 volts from a battery as the voltage from the battery drops during discharge.

- The meeting adjourned at 10:45 AM.
- Attendance

KR9D	Rick
KY9N	Chris
WB4TXE	Dave
KI4FWB	Kurt
K3WD	Bill
KE4S	Dave
WA4KBM	Kevin
K4FW	Jim
KS1G	Steve
K4MFG	Max
N3EV	Gene
W4PMP	Chris
N3UW	Rich
AK2M	Kevin
N4PD	Paul
N4PDY	Mike
N4FAF	Jim