

The Minnesota organization is the Northern Lights Radio Society <http://www.nrls.org>

NRLS meets at a conference called Aurora (listed at [arrl.org](http://arrl.org) hamfests) in White Bear Lake.

Transverters are available in kit form or assembled from Down East Microwave

<https://www.downeastmicrowave.com/category-s/1513.htm>

DB6ST in Germany, <https://shop.Kuhnw-electronic.com>, and Paul Wade W1GHZ who has his published on line. <http://www.w1ghz.org/MBT/multiband.htm> He does sell circuit boards. Nearly all these circuits use small surface mount transistors and integrated circuits so you need to be capable of assembling surface mount to assemble the kits.

KU band offset dishes about 18" diameter or a bit larger work decently with a 10 GHz feed. Nearly everybody has the transverter and the IF rig mounted on the dish or below the dish and the assembly mounted on a sturdy camera tripod. I used a couple tractor hitch parts to make my mount. I have a web page on that mount. <http://www.geraldj.networkiowa.com/papers/CSVHF2010/xvtr857align.pdf>

To share the atmospheric scattering volume. W1GHZ has an antenna book on line with lots of details for 10 GHz antenna construction or conversion and use. <http://www.w1ghz.org/antbook/preface.htm>

There is a lot of 10 GHz discussion on the MW mail list [microwave@mailmanlists.us](mailto:microwave@mailmanlists.us) today. Last week there was a 10 GHz transverter offered for sale by W9JJ and I've not seen a notice it has been sold. <https://swap.qth.com/search-results.php?keywords=w9jj&fieldtosearch=call> and that was on the NEWSVHF mail list. <http://mailman.qth.net/mailman/listinfo/newsvhf>

Events coming nearby and soon include Aurora April 25, 2020 at The Community of Grace Lutheran Church, 4000 Linden St White Bear Lake, MN. The morning hours are outside swap meet, antenna testing, and rover demonstrations. Technical programs begin at 1 PM inside and run to 5 PM with a club business meeting in there too. I haven't offered a presentation yet. There could be 10 GHz equipment for swapping in the morning. [www.nrls.org/home/aurora](http://www.nrls.org/home/aurora)

Then there is the 54<sup>th</sup> Annual Central States VHF Society Conference. It will be held at the Radisson hotel in La Crosse, Wisconsin on July 24-25 2020. On line at [2020.csvhfs.org](http://2020.csvhfs.org) Friday evening will be a swap fest.

#### Reference materials

One that has been around a while is the RSGB and ARRL international Microwave Handbook. 2<sup>nd</sup> Edition dates from 2008 but is the latest on [arrl.org](http://arrl.org). I recall that it was cheaper to pay for shipping from England than to pay ARRL shipping and sale price.

Some Central States VHF proceedings and Microwave Update Proceedings have had stuff on 10 GHz and equipment. They can be bought through ARRL and a printer that prints on request and sometimes shows contents.

And there is the German magazine DUBUS that prints every article in English and German including instruction manuals in past years from Kuhne Electronics. There do exist DUBUS indexes on line and back issues of DUBUS and back issues can be purchased through the US subscription dealers.

73, K0CQ