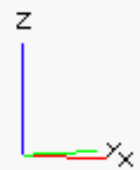


# 3D Printing a 122GHz Amateur Radio Station

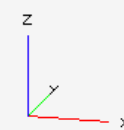
## Progress Report 15 January 2018

Michelle W5NYV

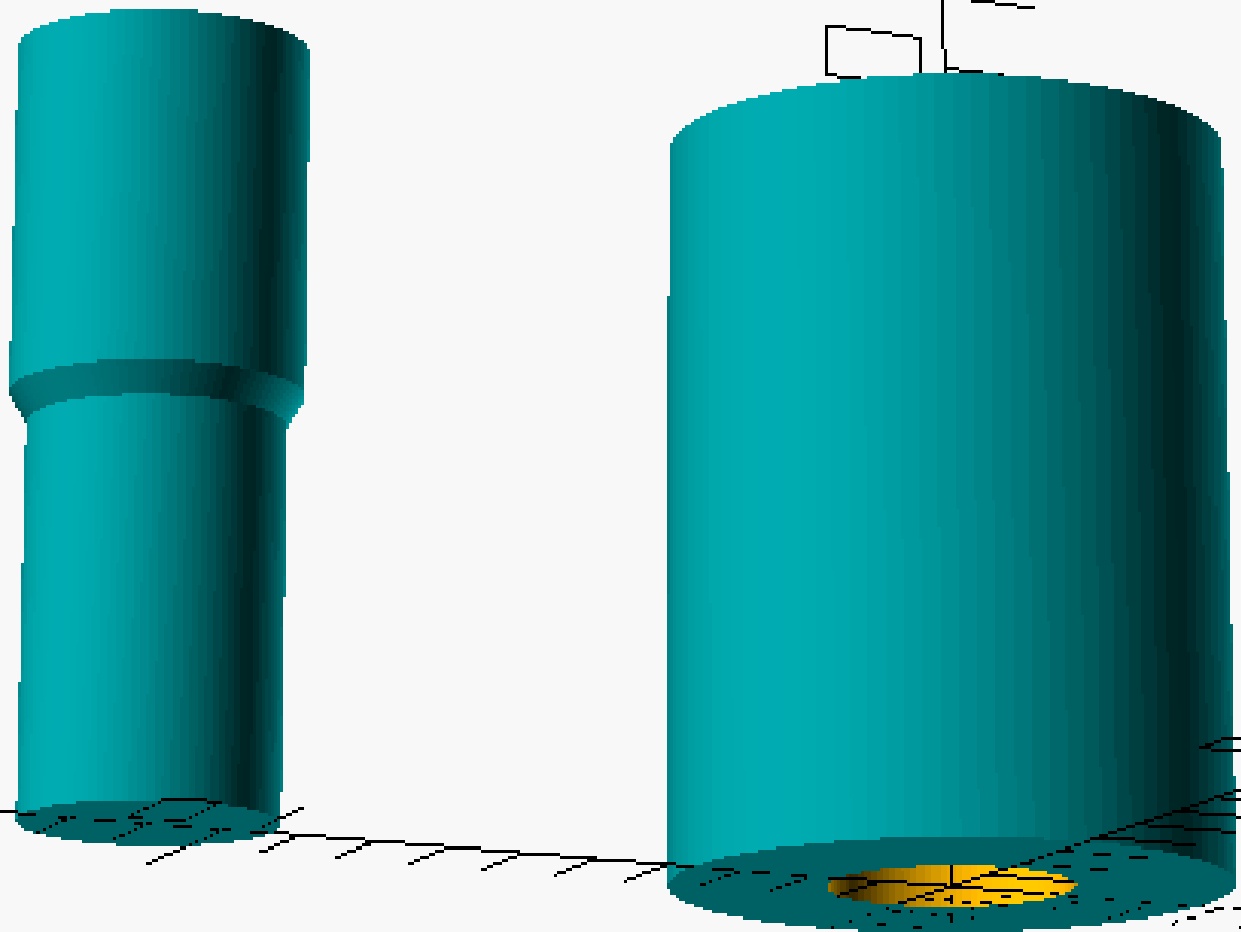
Parameterized hyperbolic solid designed in OpenSCAD.  
Representative print of a hyperbolic subreflector  
completed and surface finished to a high gloss.



Parameterized parabolic solid designed in OpenSCAD.  
Dimensionally accurate print successfully metallized.  
Initial tests indicate successful operation.



Draft of W1IMU dual mode feed horn designed for  
122 GHz in OpenSCAD and printed.  
Horn has also been machined on a lathe.



NEXT:  
3D printable strut system for exact  
placement of subreflector on dish.  
Modifications to the feed to include  
a flange for exact placement in the  
dish.

