**Coil Mount**

1. Water Cooling

* 1. Welding a water channel
     1. TIG Welding, Paul is working on this
  2. Tube Wrapping
     1. Will need an entrance port for first turn of tube.
     2. Square copper tube
        1. Small tube products is a bust, 50lbs min order
        2. S&W Wire Company **Phone:1.800.635.8467**
     3. Round Copper Tube that is squished to have flat sides. Would need to make jig to squish tube to proper width.
        1. Thermal Epoxy
        2. Al-Cu soldering/brazing
           1. Zinc-Chloride fluxes

Bad for electronics

* + - * 1. Request for contact sent: <http://www.s-bond.com/Products/S_Bond_Solder_Alloys.htm>
      1. Copper/Nickel/Gold plating of the coil form
         1. <http://www.qualitymetalfinishing.com/qmf_productserv.html>
         2. Regular soldering possible
         3. May be difficult to plate inside of recess.
         4. Quality Metal Finishing can use an electroless process. Problems noted in notebook.

1. Wire Wrapping
   1. 20AWG polyimide Single build Copper wire
      1. Sent quote request to MWS Wire
   2. Coat in epotek epoxy after each full layer
   3. Need entrance hole for first turn of wire.