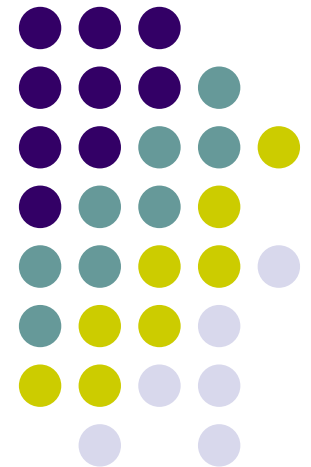


# Polishing the Ferrules

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Howard Budd  
Sep 13 2007

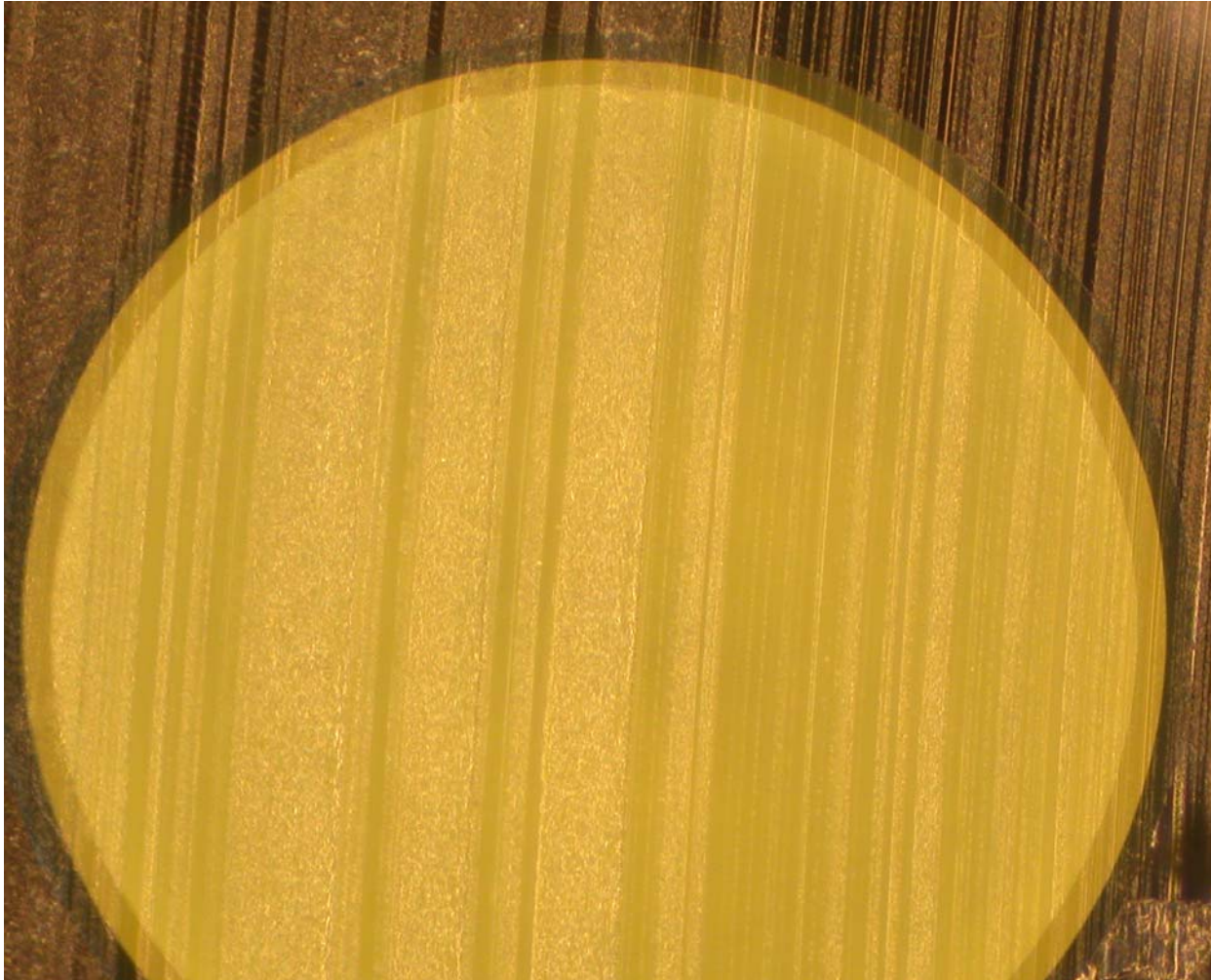




# Polishing Epoxy on the Ferrule

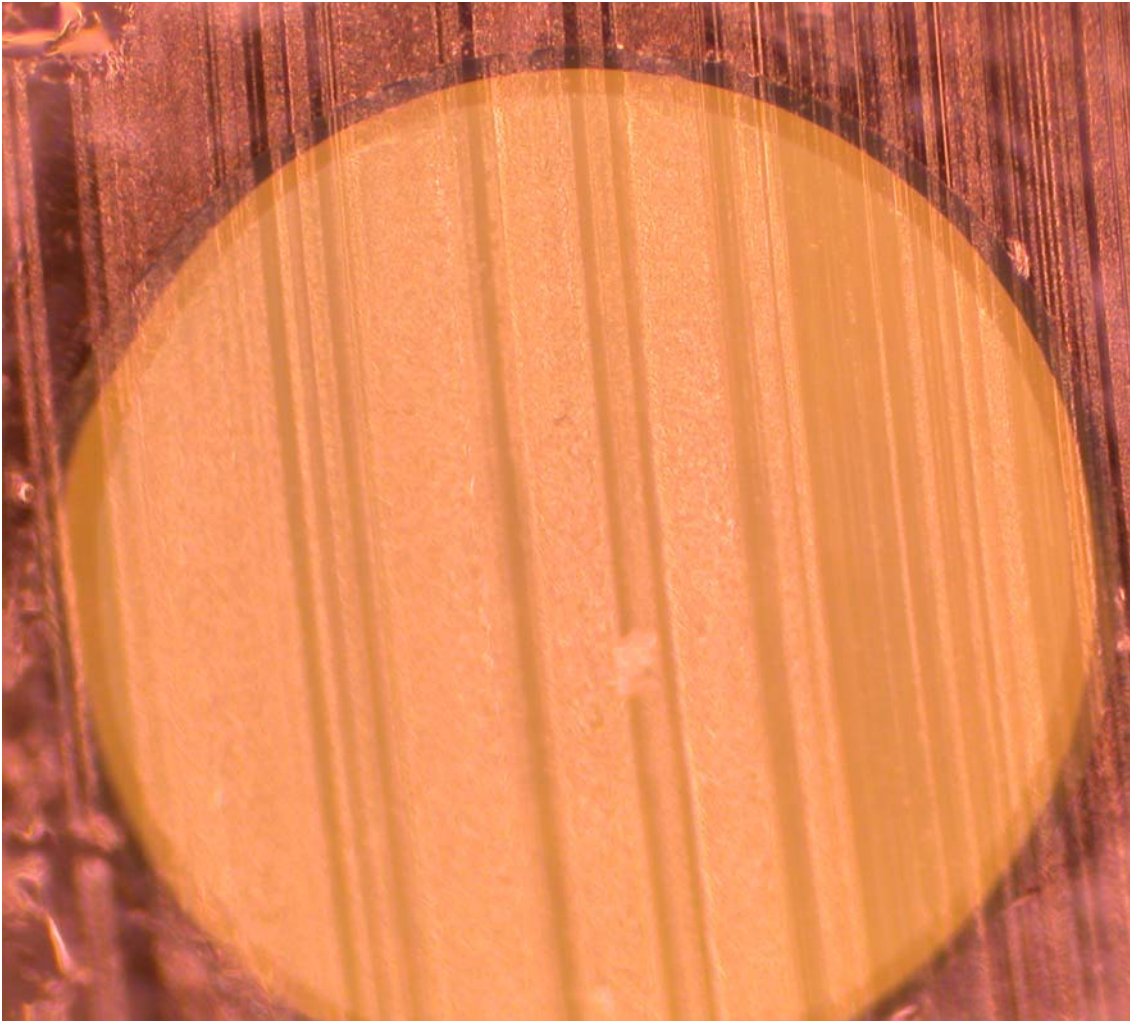
- We glued fibers in the 10 ferrules that Dave Warner gave us
- One problem was that for 3 of the ferrules the epoxy backflowed onto the outer edge of the nipple.
  - When it does this the epoxy will flow up to the flat part of the bottom part of the connectors.
  - This means it will not be positioned correctly in the polisher
  - And it will not be positioned correctly in the light detector
- The epoxy does not chip off easily
  - It does chip off easily in the DDK connectors and Minerva single fiber ferrules (which is delrin, and they are machined.)
- In thinking about this getting we want a reasonably tight fit of the fiber in the hole to prevent this
  - This is opposite to trying to get good epoxy flow around the fiber

# Epoxy Polish



- We cut the WLS fiber in the back of the this pigtail to try to get the illumination from the from
  - We don't have any clear 1mm fiber
- Diamond seems to have sustained some damage

# Epoxy Polish



- Diamond damage seen