Mentor Meeting Minutes  
Date: October 27, 2008  
Location: GJ Physics Lab

1:30  
Meeting Begins  
• Members Present  
  o Tess Howell  
  o Ken Bean  
  o Sohana Khanal  
  o Yanko Kranov

1:35  
Radiflow Discussions  
• Try to be focused on what we need to see  
• Purpose:  
  o How to use the equipment  
  o Cracks  
  o Bubbles (porosity)  
• Get involved in the measurements to be sure not to miss any spot  
• After the testing we need to correlate the data with Autoliv's data for further analysis  
Leak Checking – Helium Mass Spec  
• Might not work due to hole Autoliv drilled to depressurize inflator

Determining Cleanliness  
• Map samples with SEM  
• Samples will be cleaned with acetone or ethanol  
• Mapping will be done on the surface – this will be the cleanest sample can get  
  o Compare to “dirty” sample we mapped before cleaning  
Analyzing pores  
• Once pore is found – use less polishing slurry  
• After pore is large enough, clean with alcohol in ultrasonic bath  
• Mapping will then be done on the pore itself  
• If pores are forming near surface of weld not down deed  
  o Due to power of laser or gas used, not material property  
Analyzing wash  
• Request fresh samples and some older, used ones  
• Look for trends of increasing elements/contaminants that are present  
• Suggest some solution to solve issue (semester goal)

Plan of Action or rest of the semester  
• We will go parallel with the step 2 and 3 of our flowchart  
• Clearly define task among the members  
• We need to divide time and sample with the available test equipments
We need to have a clear definition of CLEAN in order to analyze the samples and data.

2:15
Meeting Ended