

GROUP 1 STIRLING COOLER  
MEETING MINUTES  
Staff meeting: July10, 2018

Member present: Luis, John, Abdulrahman, Ahmad, Faiez, and Amy

**Announcements:**

**Client Input:**

Amy was explaining how to do the analytic analyses and mentioned a few important formation step that is needed for the individual assignment.

**Team input:**

- Figured out what each of the team member would work on for the analyses.

**Individual Progress:**

**Luis:** will be analyzing the thermodynamics of the regenerator used in the final free piston design

**John:** will be analyzing the force required by the electric linear motor that optimally will actuate the piston/displacer apparatus.

**Abdulrahman:** will be analyzing the importance of using fins for the heat transfer.

**Faiez:** will be analysis will focus on optimization of dimensions for the displacer and piston parts.

**Ahmad:** will be analyzing the dynamic motion of the displacer and piston used in our Stirling cryocooler.

**Future Direction:**

Our future progress is to finish our individual assignment. Also, to start look up some measurements devices such as LVDT sensor and pressure sensor.