Agenda:

1. Update on work done in the previous week (Ideally, as powerpoint presentation) 5-10 mins
2. List any issues that were not resolved. 5 mins
3. Update on action items that have been completed, deferred or abandoned. 5 mins
4. Discuss the issues and plan for the following week. 15 mins
5. EMAC full paper submission (17th Nov)

Thursday, 05 September 2017, 11AM, Chris’s Office

Present: Jagir, Chris, Gib, Hashem

1. The power-point of the work done on the previous week has been uploaded in the following GitHub link: <https://github.com/hashem65/meetingMinutesAndPowerPoints>
2. We have now tested 5 different optimization methods for this problem. The abstract of the results of using these optimizers have been presented in one of the slides.
3. ALPSO, and ALHSO seem to be sometimes similar as they are both not using gradient function, which make them very expensive to be used, however, this might not be the same when we have a bigger problem. SLSQP needs a close order of the final answer to perform better. Otherwise it cannot help very much.
4. We probably need to have checkpoints to monitor the results and find the best time to stop screening the space and start SLSQP.
5. Having a fixed number as the time-steps may limit/alert the answer, so it is a good idea to have it as another parameter and let the optimisation to find it.

Next Week’s Plans:

* Trying to import derivatives of the mesh, apply BCs and fill the objective function 10-11.
* Complete the Mesh Painting report by Monday, at least finish the first draft.
* What growth rate the other people are using, looking as an example to Shi’s work
* A report for the pros and cons of each of the optimization methods for our specific problem
* Making the examples working with different time steps rather than fixed 10 steps
* Thinking about and preparing for a talk for EMAC.

Meeting closed on 12:04.