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

Meeting Minutes:

Thursday, 28 September 2017, Chris’s Office

Present: Chris, Gib, Hashem

Minutes:

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 discussed how to test the growth of a simple tube with two element layers in different optimizers in pyOpt Module. It is recommended to test some more of them from the list. SNOPT, as an option to be tried. <http://www.pyopt.org/reference/optimizers.html>
3. ALPSO seems to be very expensive so it might not be the first choice, while SLSQP provides some answer in a short time, maybe a combined optimiser work better for our problem.
4. We have discussed the issues of adding energy to the objective function, while for now it is not a concern, as we are looking to achieve a good shape of the deformed mesh for the beginning. When, needed energy can be calculated and minimised when added to the objective.
5. Chris wants to have a chat with Jagir, about how and when to apply parallelisation to the optimization solvers.
6. Shape and the behaviour of the objective function with respect to sheet rate and fibre rate in a 2D space need to be finished following the meeting.

Next Week’s Plans:

* I have partly written a report about the Mesh Painting and I hope to finish the first draft soon. It might not be a bad idea to submit an abstract to the EMAC2017 (if not late).
* I need to try to import a mesh instead of generating a mesh for the growth part.
* Conclude on the method to be used for the optimization.

Meeting finished on 11:50.