

Masks: Modelling workshop Organisation

Nev

January 2021

Suggested Structure

We have little time, non ideal communication and much to do. I suggest that initially there be 4 sub-groups, the first three being information gathering and data collecting groups, and group 4 being a modelling group:

- Dbouk ‘On respiratory droplets and masks’
- Cummings ‘Source-sink Flows’
- Wang ‘Transport of human droplets’
- Mask and Sneeze Modelling

We want to produce short reports focused on the mask problem. Relevant data should include time scales, length scales, pressure and moisture scales, velocity scales etc. Relevant dimensionless groups, equations, solutions.

Timetable

Thursday morning:

First (1 hour) meeting after presentations (all group members):

1. An initial discussion/clarification session. (Nev)
2. Form sub-groups (record members names, email) address.
3. Each sub-group should set up communication links and schedule
4. Choose a (or more) student moderator to oversee the masks group.
5. Schedule a pre-evening presentation/report meeting to decide on who presents what. (student moderator in charge)

Thursday afternoon

Work individually or collectively in your sub-groups. Prepare material for the evening presentation and choose a presenter. A verbal report would be OK on this first night. A beamer report would be better.

Friday morning and afternoon

First hour: (All group members) Report on progress on Thursday and decide on how to proceed. (student moderator overseeing)

Subgroup meetings.

Report presentation.

Saturday morning

First hour: (All group members) Report on progress on Friday and then prepare final presentation. (student moderator overseeing)

Saturday afternoon

Presentations. The presentation file (beamer or ...) should be sent to David.

Please note that AIMS students will need to keep a copy of all material required for their project report, which I will supervise after the MISG.