

Programme: Developing the next generation of lung function measurement: A Study Group in Mathematical Modelling

**Day 1 – Monday 17<sup>th</sup> April**

Workroom 3, The Diamond Building, The University of Sheffield, S3 7RD

12.30 – 13.30	Arrivals, Registration and Lunch
13.30 – 13.45	Introduction
13.45 – 14.15	<b>Challenge 1</b> Remote monitoring to predict and prevent COPD exacerbations submitted by <i>Global Access Diagnostics</i> and Q&A
14.15 – 14.45	<b>Challenge 2</b> Audio-phenotyping of patients using mobile-phone recordings. submitted by <i>Eupnoos</i> and Q&A
14.45 – 15.00	Break
15.00 – 15.30	<b>Challenge 3</b> Accurate inference of airway mechanics from impulse oscillometry data. submitted by <i>Arete Medical Technologies</i> and Q&A
15.30 – 16.15	Next steps and group discussion
16.15 – 17.15	Group formation and initial ideas
17.15 – 18.00	Drinks Reception
19.00	Dinner

**Day 2 – Tuesday 18<sup>th</sup> April**

John Carr Design Suite C29, The Portobello Centre, The University of Sheffield, S1 4DT

8.45 – 9.00	Registration and Refreshments
9.00 – 9.05	Introduction
9.05 – 11.00	Group work
11.00 – 11.30	Break
11.30 – 13.00	Group work
13.00 – 14.00	Lunch
14.00 – 15.30	Feedback/ drop-in session with challenge owners
15.30 – 16.00	Coffee
16.00 – 17.30	Group work
17.30	Close

**Day 3 – Wednesday 19<sup>th</sup> April**

John Carr Design Suite C29, The Portobello Centre, The University of Sheffield, S1 4DT

8.45 – 9.00	Registration and Refreshments
9.00 – 9.05	Introduction
9.05 – 11.00	Group work
11.00 – 11.30	Break
11.30 – 13.00	Group work
13.00 – 14.00	Lunch

14.00 – 15.30	Feedback/ drop-in session with challenge owners
15.30 – 16.00	Coffee
16.00 – 17.30	Group work
17.30	Close

#### Day 4 – Thursday 20<sup>th</sup> April

John Carr Design Suite C29, The Portobello Centre, The University of Sheffield, S1 4DT

8.45 – 9.00	Registration and Refreshments
9.00 – 9.05	Introduction
9.05 – 10.30	Group work
10.30 – 11.00	Break
11.00 – 12.30	Final Presentation preparations
12.30 – 13.30	Lunch and CO arrivals
13.30 – 14.00	Final Presentation Challenge 1
14.00 – 14.30	Final Presentation Challenge 2
14.30 – 14.45	Break
14.45 – 15.15	Final Presentation Challenge 3
15.15 – 15.30	Summary, next steps and close