

## Joint CCP-EM/BioSim Workshop

### **FFEA workshop (Thursday 13<sup>th</sup> July)**

***Ben Hanson, Oliver Harlen, Sarah Harris, Daniel Read, Albert Solernou, Rob Welch***

10.00 Coffee/registration

10.30 Introduction to FFEA: An overview of the method.

11.00– 11:15 Practical demonstration of FFEA: Using the visualiser, understanding FFEA input and output files.

11.15 – 12:15 Hands on session: Running an FFEA simulation of a dynein monomer and visualising the results using PyMol.

12:15– 1:15 Lunch

1:15-1:45 Practical demonstration: Setting up protein-protein interactions in FFEA, adding pinned nodes and springs.

1:45-2:45 Hands on session – running an FFEA simulation of dynein attached to its microtubule track.

2.45-3.15pm Coffee

3.15-3.30 Practical demonstration: Meshing for FFEA

3.30-4.15 Hands on session: Constructing an FFEA mesh for dynein, or a user-defined example.

4.15-4.40 FFEA – what next? Planned future developments.

4.40-5pm Group discussion – user feedback.

5pm End of workshop.