Biocomputation Workshop

28th-29th March 2017

St. Chad's College, Durham University

Biocomputation Workshop, St Chad's College, The Quad, Durham University		
Tuesday 28th March		
12.30	14.00	**Lunch**
14.00	14.15	Introduction: Overview of Workshop Aims and Philosophy, Sarah Harris & Susan Stepney
Session 1: Andrew Turberfield and Rob Bradley		
14.15	14.35	Overview of The Current State of the Art in Biocomputation: Successes and Challenges. Andrew Turberfield
14.35	14.55	In Vivo Syntheteic Computation. Rob Bradley
14.55	15.45	Small group discussion: *How can we develop the field? What is missing?*
15.45	16.15	**Tea/Coffee Break**
Session 2: Charlie Dorman and Sean Colloms		
16.15	17.00	How do living organisms process information?
17.00	17.30	Small group discussion: *What can we learn from living organisms?*
17.30	18.30	Feedback from the groups
19.00		**Dinner:** Lebaneat Restaurant, 47 N Bailey, Durham City, DH1 3ET
Wednesday 29th March		
Session 3a: Mark Leake and Massa Shoura		
9.00	9.30	Measurement and Detection: What are the current technical limits to determining the output from biocomputation? Mark Leake and Massa Shoura
Session 3b: Katherine Dunn and Simon Hickinbotham		
9.30	10.00	Languages and models for biocomputation
10.00	10.30	**Tea/Coffee Break**
10.30	11.15	Small group discussion: *What types of languages are going to be most helpful, given the nature of the detectable output from biocomputation?*
Session 4: Angel Goni-Mareno		
11.15	12.00	Applications of biocomputation: Where will the field lead in the future? What are the potential benefits and dangers?
12.00	13.15	**Lunch** and small group discussions on the future of Biocomputation
13.15	14.00	Feedback from groups