**Neural circuits underpinning insect cognition**

Date: 20/05/2014

Fogg Lecture Theatre, Fogg Building, Bancroft Road (off Mile End Road),

Queen Mary University of London

London E1 4NS

9:30 coffee

9:55 Welcome – Lars Chittka (symposium organiser; Queen Mary University of London)

10:00 Martin Giurfa (University of Toulouse)

*Visual knowledge in an insect brain*

10:40 Lars Chittka

*Large societies and small brains – insects as minimal models of social cognition*

11:20 James Marshall (University of Sheffield)

*Green Brain: Computational Modelling of the Honeybee Brain*

12:00 lunch

13:30 Chrisantha Fernando (Queen Mary University of London)

*What liquid state machines can tell us about random computing in small neuronal circuits*

14:10 Mark Roper, Vera Vasas, Chrisantha Fernando, Lars Chittka (Queen Mary University of London)

*The visual system of a virtual bee: from photons to lobula*

14:40 Fei Peng (QMUL), Paul Ardin, Michael Mangan, Barbara Webb (U Edinburgh)

*A neural model of ant route navigation*

15:10 coffee / tea

15:40 Jeremy Niven (University of Sussex)

*The implications of neural circuit miniaturization for behaviour and cognition*

16:20 Jeff Riffell (University of Washington)

*Olfactory modulation and learning in Manduca sexta moths*

17:00 close

Registration is free. To register, please email Oscar Ramos Rodriguez (o.r.rodriguez@qmul.ac.uk), so that we know how many people are attending and can prepare refreshments accordingly.