

Combinatorics, Algebra, and More:  
A Conference in Celebration of Peter Cameron  
Programme (updated 09 July 2013)

Queen Mary, University of London, 8th – 10th July 2013

All talks and problem sessions take place in the Mathematics Lecture Theatre in the Mathematics Building. Registration, coffee breaks, lunches and the Conference Reception take place in the Foyer of the Mathematics Building. The Conference Dinner is in the Senior Common Room Lounge in the Queens' Building.

**Monday 8th July**

**9.00 am – 9.30 am:** Registration

**9.30 am – 10.30 am:** László Babai, *Symmetry versus Regularity*.

**10.30 am – 11.00 am:** Coffee Break

**11.00 am – 11.30 am:** Open Problems Session I.

**11.30 am – 11.35 am:** Short Break.

**11.35 am – 12.35 pm:** Martin Liebeck, *Fixed points of elements of permutation groups and linear groups*.

**12.35 pm – 2.00 pm:** Lunch (Provided. There are also options on and near the campus – see '*Places to Eat and Drink*'.)

**2.00 pm – 3.00 pm:** R. A. Bailey, *Incomplete-block designs and Laplacian eigenvalues*.

**3.00 pm – 3.05 pm:** Short Break

**3.05 pm – 3.35 pm:** Robert Johnson, *Optimal resistor networks*.

**3.35 pm – 4.05 pm:** Coffee Break

**4.05 pm – 5.05 pm:** Peter Cameron, *Primitivity*.

**5.05 pm – 7.00 pm:** Conference Reception

## Tuesday 9th July

**9.30 am – 10.30 am:** Geoff Whittle, *Partial fields and matroid representation*.

**10.30 am – 11.00 am:** Coffee Break

**11.00 am – 11.30 am:** Donald Preece, *Tredoku tilings*.

**11.30 am – 11.35 am:** Short Break.

**11.35 am – 12.35 pm:** João Araújo, *The Wall*.

**12.35 pm – 2.00 pm:** Lunch (Provided; see above.)

**2.00 pm – 3.00 pm:** Alan Sokal, *Some wonderful conjectures (but very few theorems) concerning the leading root of some formal power series*.

**3.00 pm – 3.05 pm:** Short Break

**3.05 pm – 3.35 pm:** Thomas Prellberg, *The combinatorics of the leading root of Ramanujan's function*.

**3.35 pm – 4.05 pm:** Coffee Break

**4.05 pm – 5.05 pm:** Mark Jerrum, *Graph homomorphisms and generalisations: a computational perspective*.

## Wednesday 10th July

**9.30 am – 10.30 am:** Dugald Macpherson, *Maximal-closed permutation groups and reducts of structures*.

**10.30 am – 11.00 am:** Coffee Break

**11.00 am – 11.30 am:** Bridget Webb, *Infinite designs – a quick tour*.

**11.30 am – 11.35 am:** Short Break.

**11.35 am – 12.35 pm:** Anatoly Vershik, *Random subgroups of groups, and applications to representation theory*.

**12.35 pm – 2.00 pm:** Lunch (Provided; see above.)

**2.00 pm – 3.00 pm:** Colva Roney-Dougal, *Random games with finite groups*.

**3.00 pm – 3.05 pm:** Short Break

**3.05 pm – 3.35 pm:** Open Problems Session II.

**3.35 pm – 4.05 pm:** Coffee Break

**4.05 pm – 5.05 pm:** Peter Neumann, *The Rev. Thos. P. Kirkman, M.A., F.R.S. and his Complete Theory of Groups*.

**6.30 pm (for 7.00 pm):** Conference Dinner

We thank the School of Mathematical Sciences, Queen Mary, University of London, the Centre for Discrete Mathematics, QMUL, the London Mathematical Society, and Cambridge University Press for financial support for this conference.

Organisers: David Ellis and Leonard Soicher