

# Combinatorics: when mathematics meets engineering

Friday 7 November, 3-6pm, Mathematics Building, Room: Mathematics Lecture Theatre (MLT)

A “Bridging the Gaps” event exploring challenges in combinatorics across mathematics and engineering

## Programme:

Keynote talk by Professor Celia Glass  
City University

Introduction by Dr John Schormans

Professor Rosemary Bailey  
Block designs and electrical networks

Dr. Rob Donnan  
Applying group theory to ‘photonic’ structures for solving the inverse problem

Professor Leonard Soicher  
Using groups in combinatorial searches

Tea and coffee

Dr. John Schormans  
What is the settling time when simulating large-scale combinatorial /Markov Chain models of networks?

Dr. Soren Riis  
Combinatorial problems arising from network coding

Professor Peter Cameron  
Permutation groups and synchronizing automata

Dr. John Bigham  
Combinatorial problems in mobile network optimisation

Dan Stowell  
Musical timbre: matching acoustic features to human perception

Discussion

Evening wine buffet

For more information and to register please email [tijana.timotijevic@elec.qmul.ac.uk](mailto:tijana.timotijevic@elec.qmul.ac.uk)

## Contact:

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