**CARDIFF UNIVERSITY**

**CARDIFF SCHOOL OF MATHEMATICS**

**WORKSHOP**

**MODERN TRENDS IN MARKOV PROCESSES AND QUEUEING THEORY**

**15 February 2013**

**All sessions to be held in Room M/1.10, Mathematics Institute, Senghennydd Road, Cardiff**

**PROGRAMME**

8.30 – 8.55 Coffee and registration in Room M/1.10

9.00 - 9.40 Dr Vince Knight, Cardiff University, UK (30 minutes lecture, plus 10 minutes for questions/discussion)

 On an approximate solution to an equation that appears in queuing games

 9.45 - 10.25 Professor Alexander Veretennikov, University of Leeds, UK (30 minutes lecture, plus 10 minutes for questions/discussion)

 On convergence rates in Erlang-Sevastyanov type problem

 10.30 – 10.55 Coffee/biscuits

 11.00 - 11.40 Professor Vladimir Anisimov, Innovation, Quintiles and University of Glasgow, UK (30 minutes lecture, plus 10 minutes for questions/discussion)

 Enrolment in multicentre trials: new trends and perspectives for queuing models

 11.45 - 12.25 Professor Jeff Griffiths, Cardiff University, UK (30 minutes lecture, plus 10 minutes for questions/discussion)

 Approximations for time-dependent queues

 12.30 - 13.25 Lunch

 13.30 - 14.10 Dr Julie Vile, Cardiff University, UK (30 minutes lecture, plus 10 minutes for questions/discussion)

 Managing time-varying demand when setting service requirements in priority service systems

 14.15 - 14.55 Dr. Denis Denisov, University of Manchester, UK (30 minutes lecture, plus 10 minutes for questions/discussion)

 Corrected heavy traffic approximation for the single-server queue

 15.00 - 15.25 Tea/biscuits

 15.30 - 16.10 Professor Alexey Kulik, Mathematical Institute of Academy of Sciences of Ukraine, Ukraine (30 minutes lecture, plus 10 minutes for questions/discussion)

 Ergodicity, mixing bounds, and statistical inference for Fisher-Snedecor diffusion

 16.15 - 16.55 Dr. Nenad Suvak, Osijek University, Croatia (30 minutes lecture, plus 10 minutes for questions/discussion)

 On spectral properties and statistical analysis of heavy-tailed Pearson diffusions

 17.00 Close

 19.00 Dinner (14 February, Thursday)

 J.Griffiths and N.Leonenko, Organisers