

Bridging the Gaps – building a new community:

Modelling, Visualisation and Verification of Large Scale Systems

Question:

What do a communication engineer, an aircraft designer, a geoscientist and a software researcher have in common?

Answer:

- They seek to understand the behaviour of natural or artificial systems by building mathematical and computational models
- They share common problems of designing, validating, and verifying good models
- They investigate the behaviour of systems and their models through simulation and visualisation.

The goal of this project is to build a new applications-led community. The four departments – Electronic Engineering, Engineering, Computer Science and Mathematical Sciences – have a huge amount of expertise in research of large-scale systems, and there is considerable overlap. The experience of the investigators has shown that there is much to gain from interdisciplinary work.

BTG objectives:

- To develop a shared understanding of issues and methods in modelling large-scale systems
- To facilitate staff mobility and overcome barriers
- To enhance awareness of multidiscipline activity right across Queen Mary
- To support your ideas to interdisciplinary working
- To run a series of events to facilitate the development of cross-disciplinary research
- To support pump-priming of research
- To support (inward and outward) research visits that develop multidisciplinary capacity at Queen Mary
- To disseminate results through postgraduate training and schools outreach work

The planned events include sandpits, seminars hosted by our multidisciplinary research professors, pump-priming grants, lecture buyouts and visits (in and out).

The project has flexibility and we are open to suggestions and your ideas!

BTG Investigators are:



Dr John Schormans
Electronic Engineering
Principal Investigator

Dr John Cater
Engineering
Co-Investigator



Dr Heiko Grossmann
Mathematics
Co-Investigator

Professor Jonathan Pitts
Electronic Engineering
Co-Investigator



Professor Peter McOwan
Computer Science
Co-Investigator

Dr Paulo Oliva
Computer Science
Co-Investigator



BTG Project Launch – Octagon, 27 March 2008, 4-6pm

This is an informal opportunity to meet colleagues interested in multidisciplinary research. After some short addresses, which will state the project objectives and opportunities, all are welcome to socialise over wine and a light buffet.

Speakers:

Professor Ursula Martin, Vice-Principal of Science and Engineering
Dr John Schormans, BTG Principal Investigator
Professor Peter McOwan, BTG Co-Investigator
Professor Ante Munjiza, Engineering
Professor David Arrowsmith, Mathematics

Further information

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