

Maths DSIG Agenda

13:30 – 16:30 Thursday, 18th June 2015

13:00 – 13:30	Update on, 'A Service Oriented Virtual Environment for Complex System Design and Analysis' ¹ Prof Charles Dickerson, Loughborough University
13:30 – 14:15	Is There a Substantive Difference between Sequence Diagrams and Activity Models/State Machines for Conceptual Modelling? ² Dr Stephen Clement, Loughborough University
14:15 – 15:00	Break
15:00 – 16:00	Metamodel for Optimization Tools: Its Form and Usage ³ Peter Denno, NIST
16:00 – 16:30	Closing Discussion
16:30	Adjourn

¹ This update reports on the progress of the March presentation which was based on the IEEE paper by Loughborough University, the University of Leeds, and Jaguar Land Rover.

² The research presented in the Loughborough/Leeds/JLR IEEE paper illustrated using ROSETTA for virtual design and prototyping. The technical/ mathematical approach raises a question about how best to implement performance and behaviour in relational orientation using object orientation. The point for OMG is how to implement ROSETTA, which is a mathematically based matrix framework, using OMG object oriented standards.

³ Peter's presentation will continue the discussion of optimization languages such as OPL and AMPL. The technical/ mathematical point for OMG is whether there is a standard to be written.

Acronyms

AMPL	This is a modeling tool for the entire optimization modeling lifecycle.
CPLEX	This is one of several solvers for the AMPL tool. See http://ampl.com/
ROSETTA	Relational Oriented Systems Engineering Technology Trade-off and Analysis