



## 2<sup>nd</sup> Joint Liverpool-Glasgow Maths Healthcare Centre Meeting

Thursday 30<sup>th</sup> August 2018

SIRE Seminar Room

Stephenson Institute of Renewable Energy

12.00-12.50	Arrival and Lunch	
12.50-1.10	Opening Address <i>Rachel Bearon (Liverpool Centre)</i> <i>Xiaoyu Luo (Glasgow Centre) Executive Director</i> <i>Ke Chen (Liverpool Centre Director)</i>	
<b>Session 1</b> <i>Chairperson: Rachel Bearon</i>		
1.10-1.30	Modelling Dynamic Response of Stented Blood Vessels	<b>Alexander Movchan (Liverpool Centre)</b>
1.30-1.50	Effect of Geometry Representation on Parameter Inference in Mathematical Models on Left Ventricle	<b>Alan Lazarus (Glasgow Centre)</b>
1.50-2.10	Issues on Image-based Ventricular Geometry Reconstruction	<b>Hao Gao (Glasgow Centre)</b>
2.10-2.30	Accelerating the Convergence of Optimisation Procedures for Parameter Estimation in Soft Tissue Mechanical Models via Bayesian Optimisation	<b>Agnieszka Borowska (Glasgow Centre)</b>
2.30-2.50	Incorporating Data into Disease Dynamics	<b>Anne Jones (Liverpool Centre)</b>
2.50-3.10	Systems Toxicology Approach to Identifying Paracetamol overdose	<b>Chantelle Mason (LJMU)</b>
3.10-3.40	<b>Poster Session with Refreshments</b>	
<b>Session 2</b> <i>Chairperson: Nick Hill</i>		
3.40-4.00	Multivariate Longitudinal Modelling for Clinical Prediction	<b>Marta Garcia Finana (Liverpool Centre)</b>
4.00-4.20	Modelling Insulin effects on Cell Cycle and Bio Energetics	<b>Mirela Domijan (Liverpool Centre)</b>
4.20-4.40	Modelling Dynamics of Microbial Communities Growing in Mixed Environment	<b>Nouf Alghamdi (Liverpool Centre)</b>
4.40-5.20	Facilitated discussion on future directions	<b>Rachel Bearon (Liverpool Centre)</b>
5.20-5.30	Closing comments	<b>Ke Chen (Liverpool Centre)</b>
6.30	<b>Dinner</b>	

## Posters

- Multiphase MCMC Sampling for Parameter Inference in Non-linear Ordinary Differential equations **Alan Lazarus (Glasgow Centre)**
- A Mathematical Model for Blood Flow in the Coronary Circulation **Jay Mackenzie (Glasgow Centre)**
- Cell motility & biofilm formation **Marianne Scott (Liverpool Centre)**
- The Generalised Structure Tensor approach and its application to constitutive modelling of passive myocardium **Andrey Melnik (Glasgow Centre)**
- Improved Variational Models for Multi-Modality Image Registration **Anis Thejani (Liverpool Centre)**