GLASGOW SOFTMECH - LIVERPOOL CMH

Joint Meeting of two EPSRC Centres for Mathematical Sciences in Healthcare

Glasgow, 2018-04-04



— Directions —

Venue Room 116, School of Mathematics and Statistics, University of Glasgow, Glasgow G12 8SQ

Date 2018-04-04

Contact Radostin Simitev (Radostin.Simtev@glasgow.ac.uk)

— Programme —

Arrival and Lunch

12:00 - 12:50	Arrival and sandwich lunch
12:50 - 13:00	Welcome and overview of the SofTMech and LCMH Centres.

Session 1

Chairperson:	Radostin Simitev
13:00 – 13:15	GABRIELA CZANNER <i>University of Liverpool</i> Spatial statistical models for medical imaging data
13:15 – 13:30	MANLIO TASSIERI <i>School of Engineering, University of Glasgow</i> Dynamics of Semiflexible Polymer Solutions in the Tightly Entangled Concentration Regime: The fall of a theoretical framework!
13:30 – 13:45	BAKHTI VASIEV Dept Mathematical Sciences, University of Liverpool Universal statistics of epithelial tissue topology
13:45 – 14:00	XIAOYU LUO School of Mathematics and Statistics, University of Glasgow Soft tissue mechanics and FSI in the cardiovascular system
14:00 – 14:15	JINJU CHEN (VICKY) School of Engineering, Newcastle University Multiscale modelling and mechanical characterisation of biofilms

Poster Session

14:15 – 14:45 Posters and coffee

Session 2

Chairperson:	Nick Hill
14:45 – 15:00	SEAN MCGINTY School of Engineering, University of Glasgow Mathematical modelling in drug delivery and discovery
15:00 – 15:15	Anis Theljani <i>Dept Mathematical Sciences, University of Liverpool</i> Improved variational models for accurate mono- and multi-modality image registration
15:15 – 15:30	PETER STEWART <i>School of Mathematics and Statistics, University of Glasgow</i> Optic nerve sheath bleeding driven by rapid cerebrospinal fluid pressure amplification
15:30 – 15:45	YALIN ZHENG Institute of Ageing and Chronic Disease, University of Liverpool Development of AI to Aid Medical Imaging
15:45 – 16:00	HAO GAO School of Mathematics and Statistics, University of Glasgow Mathematical modelling in myocardial infarction: issues and challenges

■ Round Table discussion

Chairperson: Xiaoyu Luo

16:00 – 16:15 Coffee break

16:15 – 16:45 Round table discussion

16:45 – 17:00 Summary

Dinner

19:00 – Dinner at the Bothy (11 Ruthven Lane, Hillhead, Glasgow, G12 9BG)

— Questions for Discussion —

- 1. Propose a format for an eventual next joint meeting.
- 2. Propose a joint SofTMech-LCMH collaborative project you will be interested in. Expand Why is the project significant? Methodology? Main collaborators? Resourses needed?
- 3. Propose activities for outreach to third parties.
- 4. How to engage with industrial and clinical partners?
- 5. Identify common mathematical, statistical or computational challenges.

— Acknowledgements —



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