

## Second Soft Tissue Modelling Workshop

Venue Room 515, Maths Building, School of Mathematics & Statistics, 15 University Gardens, Glasgow, 10-12, June 2015

### Program

#### Day 1

Wednesday 10 June 2015

09:00:00 09:30:00 Registration

09:30:00 09:40:00 Workshop Opening - Prof. Xiaoyu Luo

#### Morning Session-1 Chair: Prof. Raymond Ogden

09:40:00 10:20:00 Prof. Jay Humphrey *From Adaptation to Disease Progression: Modeling Vascular Growth and Remodeling*

10:20:00 10:40:00 Prof. Konstantinos Soldatos *Small strain growth and the human nail*

10:40:00 11:00:00 Dr. Angela Mihai *Hyperelastic constitutive models for brain and fat tissues*

11:00:00 11:30:00 Coffee break Common Room (near the main entrance of the maths building)

#### Morning Session-2 Chair: Prof. Gerhard Holzapfel

11:30:00 11:50:00 Prof. Michel Destrade *Modelling and measuring residual stresses in human skin*

11:50:00 12:10:00 Prof. Xavier Pelorson *Physical modelling of voice pathology induced by a growth on the vocal folds*

12:10:00 12:30:00 Mr. Andrey Melnik *Fibre reorientation*

12:30:00 13:30:00 Lunch Queen Margaret Union, 22 University Gardens

#### Afternoon Session-1 Chair: Prof. Michel Destrade

13:30:00 14:10:00 Prof. Martine Ben Amar *Growth of living fibrous tissues: from biofilms to fibrosis*

14:10:00 14:30:00 Miss Aikaterini Mandaltzi *Modelling the evolution of rabbit elastase aneurysms: An integrative in vivo, in vitro and in silico approach*

14:30:00 14:50:00 Dr. Huabing Yin *Cellular experiments*

14:50:00 15:10:00 Mr. Jack Hornsby *Developing a mechanobiological model of the murine bladder: In vivo, in vitro and in silico modelling*

15:10:00 15:30:00 Prof. Xiaoyu Luo *Residual stress and opening angles in a simple heart model*

15:30:00 15:45:00 1 min poster presentation *all poster presentations*

15:45:00 17:30:00 Coffee break & Poster session Common Room (near the main entrance of the maths building)