

**International ICMM Workshop on Mathematical
Modelling: From Bio to Quantum**

May 21-22, 2018, Loughborough University

Organizers:

Tapio Ala-Nissilä, Andrew J. Archer & Gyula I. Tóth
Interdisciplinary Centre for Mathematical Modelling (ICMM)

Invited Speakers:

Janet Anders (Exeter)

Mark Everitt (Loughborough)

Juan Garrahan (Nottingham)

Steven Kenny (Loughborough)

Halim Kusumaatmaja (Durham)

Achilleas Lazarides (Max Planck Dresden / Loughborough)

Andrew O. Parry (Imperial College London)

Daniel Ratliff (Loughborough)

Jalal Sarabadani (Loughborough)

Tyler Shendruk (The Rockefeller USA / Loughborough)

Vadim Silberschmidt (Loughborough)

Gyula Toth (Loughborough)

***All are welcome. The talks will be given in U006
(Brockington Extension)***

13:30-17:00 on the 21st, and 9:30-11:30 on the 22nd.

Programme 21.-22.5.2018:

Speaker	Monday, May 21 st (Brockington rm. U006)
<i>T. Ala-Nissila: Welcome and Opening Words</i>	13:25 – 13:30
<i>Halim Kusumaatmaja: Modelling Multicomponent Fluid Flows with the Lattice Boltzmann Method</i>	13:30 – 14:00
<i>Andrew O. Parry: Physics Near Free Liquid-Gas Interfaces</i>	14:00 – 14:30
<i>Tyler Shendruk: The Shape of Blood: Morphology of Depletant-Induced Erythrocyte Aggregates</i>	14:30 – 14:45
<i>Jalal Sarabadani: Polymer Translocation Through a Nanopore: Tension Propagation Theory</i>	14:45 – 15:00
<i>Vadim V. Silberschmidt: Mechanics of Advanced Materials at Loughborough</i>	15:30 – 16:00
<i>Gyula Toth: Phase-Field Modelling of Pattern Formation in Quasi-Incompressible Multicomponent Liquids</i>	16:00 – 16:30
<i>Steven Kenny: Modelling the Growth of Thin Films</i>	16:30 – 17:00

Speakers	Tuesday, May 22 nd (Brockington rm. U006)
<i>Janet Anders: Thermodynamics Beyond the Weak Coupling Limit</i>	9:30 – 10:00
<i>Juan Garrahan: Soft Matter Ideas in Quantum Non-Equilibrium</i>	10:00 – 10:30
<i>Achilleas Lazarides: Periodically Driven Many-Body Systems</i>	10:30 – 10:45
<i>Daniel Ratliff: Quasipatterns - A Tale of Two Lengthscales</i>	10:45 – 11:00
<i>Mark Everitt: Representing, Modelling and Simulating Quantum Systems When Engineering Is Important</i>	11:00 – 11:30