

**DEPARTMENT OF CHEMISTRY  
OXFORD UNIVERSITY**

**PHYSICAL & THEORETICAL CHEMISTRY LABORATORY**



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**THE HINSHELWOOD LECTURES 2018**

**Professor Lydéric Bocquet**

**Professor of Physics and CNRS / Directeur du Master ICFP  
Ecole Normale Supérieure, Paris**

**“Soft Interfaces: A Journey Across Scales”**

**Will be presented in the form of six lectures on the following dates:**

**General Introduction (within Lecture 1): Soft Interfaces and Scales**

- LECTURE 1: Tuesday, 24 April - Slippery Roads of Hydrodynamic Slippage**
- LECTURE 2: Thursday, 26 April - Flows at Nanoscales, from Exotic Transport to Ionic Machines**
- LECTURE 3: Tuesday, 1 May - Playing with Osmosis: Kidney Filtration, Active Sieving and Energy Harvesting**
- LECTURE 4: Thursday, 3 May - Interfacial Transport: from Colloid Transport to Active Matter**
- LECTURE 5: Tuesday, 15 May - Ski Friction and the Alchemy of Waxing**
- LECTURE 6: Thursday, 17 May - An Outdoor Pause: Skipping Stones, Splashes (and some tea to conclude)**

The Lectures will be presented in the  
Physical & Theoretical Chemistry Laboratory in the Main Lecture Theatre at 11.15 am.  
They will be of particular interest to researchers and senior undergraduates.

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