**Acoustofluidics Forum**

**(9th SIG Meeting of The Acoustofluidics in Fluidic Network)**



**Date:**

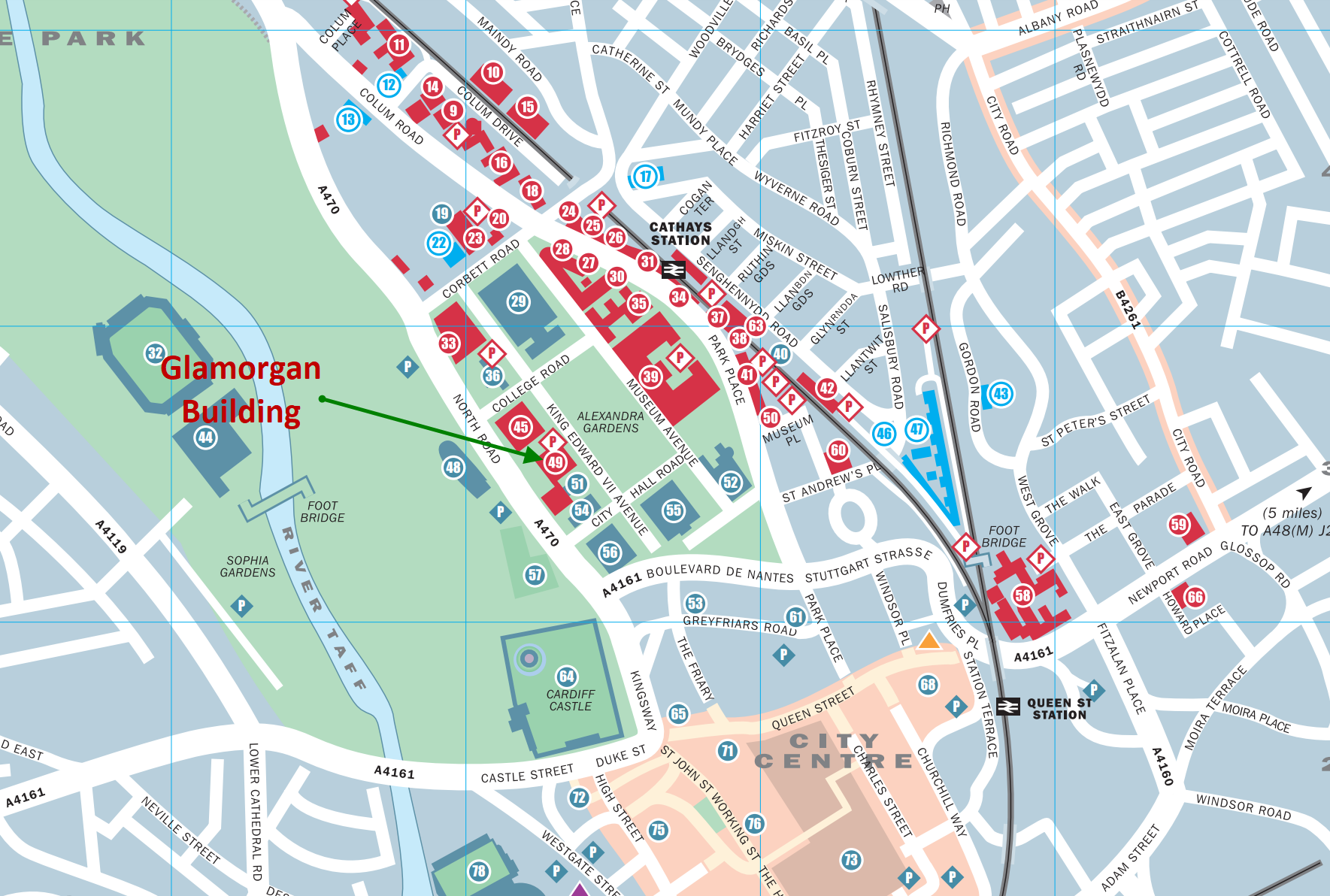
16-17 October 2019

**Location:**

Committee Room 2, Glamorgan Building, Cardiff University

King Edward VII Ave, Cardiff CF10 3NN

The map can be found on: <https://goo.gl/maps/w8YJgZY9vmEZRqKK6>



**Programme**

**Day 1 – 16 October, Wednesday, 2019**

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| **Time** | **Speaker** | **Institute** | **Title** |
| 10.00 – 10.20 | Registration (Coffee & Tea) | | |
|  |  | | |
| 10:20-10:25 | Dr Xin Yang | Cardiff University | Welcome and safety |
| 10:25-10:30 | Prof. Richard fu | Northumbria University | Future plan after UKFN |
| 10:30-11.15 | Prof Bruce Drinkwater | University of Bristol | The power of design simplicity - exploring new applications for bulk wave acoustic manipulation devices |
| 11.15-12.00 | Dr Xin Yang | Cardiff University | Acoustic Tweezers Based on GaN |
| 12.00-12.30 | Dr Caroline Pouya | University of Exeter | The Frequency Dependence of Surface Acoustic Wave Swimming |
| 12.30-13.00 | Mr Fangda Wu | Cardiff University | SAW washing electroporated cells |
| 13.00-14.00 | Lunch and networking (with Group Photo) | | |
| 14.00-14.45 | Prof Martyn Hill | University of Southampton | TBC |
| 14.45-15.30 | Dr Julien Reboud | University of Glasgow | What is to come next in acoustofluidics |
| 15.30-16.00 | Mr Roman Mikhaylov | Cardiff University | PCB-based SAW acoustic tweezers |
| 16.00-16.30 | Dr Cristiano Palego | Bangor University | Micro-optofluidic chip for discrimination and treatment of cancer stem cells with ultra-high frequency signals |
| 16.30-17.00 | Dr Liangfei Tian | University of Bristol | Ultrasound wave: an emerging tool in micro-array technologies |
| 17.00-19.00 | Cheese and Wine | | |

**Day 2 – 17 October, Thursday, 2019**

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| **Time** | **Speaker** | **Institute** | **Title** |
| 9.30-10.00 | Coffee & Tea | | | | |
| 10.00-10.30 | Prof Richard Fu | Northumbria University | Flexible and wearable acoustofluidics lab-on-chips |
| 10.30-11.00 | Dr Jeremy Hawkes | UK | Ultrasound standing wave filters |
| 11.00-11.30 | Dr Yinhua Dong | Cardiff University | Cell stimulation based on PCB SAW devices |
| 11.30-12.00 | Dr Hamdi Torun | Northumbria University | An integrated platform combining acoustofluidics and electromagnetic metamaterials |
| 12.00-12.30 | Dr Yulia Hicks | Cardiff University | Ultrasound imaging for measuring cardiac outputs |
| 12.30-13.30 | Lunch and networking | | | | |
| 13.30-14.00 | Dr Rhys Pullin | Cardiff University | Advanced Damage Detection and Characterisation using Acoustic Emission |
| 14.00-14.30 | Dr Christian Burton | Cardiff University | Exosome diagnostics using SAW |
| 14.30-15.00 | Dr You Zhou | Cardiff University | Lipid, liver and life: an integrative approach |
| 15.00-15.20 | Ms Sadaf Maramizonouz | Northumbria University | Numerical simulation of acoustic streaming in microchannel |
| 15.30 | Final remarks and Closure | | | |

**Finances**

The UKFN will provide us with limited funding, but it will be mainly used to cover refreshments and lunch, and reasonable expenses for the travel of invited speakers. We may provide some funding for students from our SIG members to fund their travel expenses. If you need to have funding support, please contact Dr Chris Yang yangx26@cardiff.ac.uk or Prof Richard Fu [Richard.fu@northumbria.ac.uk](mailto:Richard.fu@northumbria.ac.uk) in advance.

**Who May Attend**

All members of the SIG, especially junior academic staff, Research Fellows, post-doc researchers or PhD students are invited.

**Confirming Attendance**

For attendance, please reply to yangx26@cardiff.ac.uk.

We’d appreciate replies whether you can attend or not. This will help us with room sizes and catering. Please indicate any dietary matters we need to consider for lunch (vegetarian/vegan/gluten-free, etc).