

## Acoustofluidics Forum and Olympics 2019

This meeting will bring together the UK and international research communities in ultrasonics, acoustics and fluids in a two-day event full of interesting talks, technical demonstrations (i.e. the Olympics) and mind-challenging discussions.

The remit of the meeting covers both the fundamentals and applications of acoustofluidic systems, such as bio-sampling, microanalysis, microfluidic diagnosis, filtering and container-less processing. Papers on novel acoustofluidic applications are particularly welcome. Finally, we would also like to cover devices and systems related to acoustofluidic devices, such as sensors and pumps.

### Registration:

<https://www.eventbrite.co.uk/e/acoustofluidics-forum-and-olympics-2019-registration-58655841200>

**Date:** 26<sup>th</sup> and 27<sup>th</sup> June 2019  
University of Bristol, UK.

**Meeting Place:** Bill Brown Suite, Queen's Building  
University of Bristol  
(Click here for [Campus map](#))

### Confirmed Invited speakers

Prof Glauber Silva, University of Alagoas, Brazil.

Amanda Franklin, Lumicks, The Netherlands.

Dr Julien Reboud, University of Glasgow, UK.

Dr Rafael Morales, Ultrahaptics, UK.

Dr Dave Phillips, University of Exeter, UK.

### Who May Attend?

Academic or industrial researchers, Research Fellows, post-doc researchers or PhD students.

### Confirming Attendance

For attendance, please register at the following Eventbrite page

<https://www.eventbrite.co.uk/e/acoustofluidics-forum-and-olympics-2019-registration-58655841200>

To help us keep good track of attendees, **each participant** will need to complete the registration. Please indicate any dietary matters we need to consider for lunch (vegetarian/vegan/gluten-free, etc).

The presentations programme is now closed, and we are not accepting new talks. We are however still admitting more demos. If you are doing a demo, please state if you require any particular settings for it using the Eventbrite form.

## Programme:

### Day 1

10.00 - 10.15	<i>Registration (Coffee and Tea)</i>	
10.15 - 10.30	Bruce Drinkwater	Welcome, safety and intro
10.30 - 11.00	Amanda Franklin	Investigations of low-cost single-beam transducers for acoustic trapping
11.00 - 11.15	Robert Dwyer-Joyce	Ultrasonics and the measurement of lubricants and lubricant properties
11.15 - 11.30	Bruce Drinkwater	Holographic Tweezers
11.30 - 11.45	Andy Nichols	Acoustic holography in application to open channel flow characterisation
11.45 - 12.00	Sam Jackson	Measurement and Simulation of an open-type flexural ultrasonic transducer
12.00 - 13.15	<i>Lunch (with Group Photo)</i>	
13.15 - 13.45	Julien Reboud	Shaping acoustic waves on disposable surfaces – enabling translation of medical devices
13.45 - 14.00	Ali Mohammad Yazdani	Developing a biosensor chip, which is used to separate the circulating tumour cells effectively
14.00 - 14.15	Christian Burton	Acoustics for nano-particle enrichment
14.15 - 14.30	James Armstrong	Engineering Complex Tissues using Acoustic Cell Patterning
14.30 - 14.45	Richard Fu	Towards the wearable acoustofluidics
14.45 - 15.30	<i>Coffee &amp; Demo set up</i>	
15:30-17:30:	Demos and poster section	
18:00-19:30:	Drinks, canapes & Networking in the Terrace	

## **Day 2**

9.30 - 10.00	<i>Coffee and Tea</i>	
	Rafael Morales	Creating tangible structures for interactive mid-air experiences
10.00 - 10.30		
	Liangfei Tian	Acoustic trapping: an emerging tool in micro-array technologies
10.30 - 10.45		
	Ran Tao	Droplets manipulation on arbitrary surfaces by acoustic waves
10.45 - 11.00		
	Tatsuki Fushimi	Enhancing Dynamic Positioning Performance Inside Mid-Air Acoustic Levitator
11.00 - 11.15		
11.15 - 11.45	<i>Coffee and Tea</i>	
11.45 - 12.15	Glauber Silva	TBD
	Hanlin Wang	A new design of acoustic devices for micro- and nano- particles manipulation
12.15 - 12.30		
	Luke Cox	Field Multiplexing for Advanced Manipulation Capabilities
12.30 - 12.45		
12.45 - 13.00	Samaneh Moeini	TBD
13.00 - 14.15	<i>Lunch</i>	
14.15 - 14.45	Dave Philips	Indirect optical trapping: light driven micro-rotors for reconfigurable nearfield hydrodynamic manipulation
	Raimund Bruenig	SAW Generation for Acoustofluidics: Applications and Accessories
14.45 - 15.00		
15.00 - 15.15	Yinhua Dong	Flexible PCB travelling SAW in stem cell stimulation
15.15 - 15.30	TBC	TBC
15.30 - 15.50	<i>Close and wrap up</i>	

## **Finances**

This event is free of charge but no additional funding is available for travel and/or subsistence expenses. Lunch and refreshments for the two days will be covered. There will be a free networking event with drinks and canapes in the evening of the first day.

**Organisation team:**

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