Acoustofluidics Forum & Olympics 2019

UK and international research symposium on the fundamentals and applications of acoustofluidic systems, such as bio-sampling, microanalysis, microfluidic diagnosis, filtering and container-less processing.

26th—27th June 2019, Bristol

University of Bristol
Bill Brown Suite
Queen's Building
BS8 1TR, Bristol

PROGRAMME

Day 1

10.00 - 10.15	*Registration (Coffee and Tea)*	
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 - 11.20	Robert Dwyer-Joyce	Ultrasonics and the measurement of lubricants and lubricant properties
11.20- 11.40	Bruce Drinkwater	Holographic acoustic tweezers
11.40 - 12.00	Sam Jackson	Measurement and Simulation of an open-type flexural ultrasonic transducer
12.00 - 13.15	*Lunch (with Group Photo)*	
13.15 - 13.45	Julien Reboud	Shaping acoustic waves on disposable surfaces – enabling translation of medical devices
13.45 - 14.00	Ali M. 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	*Coffee & Demo set up*	
15:30-17:30:	Demos and poster section	
18:00-19:30:	*Drinks, canapes & Networking in the Terrace*	

Day 2

9.30 - 10.00	*Coffee and Tea*	
10.00 - 10.30	Rafael Morales	Creating tangible structures for interactive mid-air experiences
10.30 -10.45	Liangfei Tian	Acoustic trapping: an emerging tool in micro-array technologies
10.45 - 11.00	Ran Tao	Droplets manipulation on arbitrary surfaces by acoustic waves
11.00 - 11.15	Tatsuki Fushimi	Enhancing Dynamic Positioning Performance Inside Mid-Air Acoustic Levitator
11.15 -11.45	*Coffee and Tea*	
11.45 - 12.15	Glauber Silva	Acoustic deformation of soft matter with ultrasonic standing waves
12.15 - 12.30	Hanlin Wang	A new design of acoustic devices for micro-and nano- particles manipulation
12.30 - 12.45	Luke Cox	Holograms on Phased Arrays
12.45 - 13.00	Samaneh Moeini	TBD
13.00 - 14.15	*Lunch*	
14.15 - 14.45	Dave Philips	Indirect optical trapping: light driven micro-rotors for reconfigurable nearfield hydrodynamic manipulation
14.45 - 15.00	Raimund Bruenig	SAW Generation for Acoustofluidics: Applications and Accessories
15.00 - 15.15	Yinhua Dong	Flexible PCB travelling SAW in stem cell stimulation
15.15-15.30	TBC	TBC
	Andy Nichols	Acoustic holography in application to open channel flow characterisation
15.30-15.50	*Close and wrap up*	

THE ACOUSTOFLUIDICS OLYMPICS

Robert Dwyer-Joyce	Ultrasonics and the measurement of lubricants and lubricant properties
Jenna Shapiro	Patterning Water Drops with Ultrasonic Standing Waves
Ali M. Yazdani	Developing a biosensor chip, which is used to separate the circulating tumour cells effectively
Liangfei Tian	Acoustic Wave Patterning of Coacervate Droplets
Luke Cox	TinyLev: Low Cost Acoustic Levitation
Raimund Bruenig	Water Atomization using Ultrasound in a Small Scale
Rafael Morales	Creating tangible structures for interactive mid-air experiences
Jeremy and Luke Hawkes	Perfect droplets; 2 Acoustic lab on a microscope slide ; Levitation above chladni figures.
Yinhua Dong	Flexible PCB travelling SAW in stem cell stimulation
Hanlin Wang	TBC
Roman Mikhaylov	SAW device with Interdigital electrodes based on a PCB
Tomos Brenchley	TBC
Seyedmehdi Hosseini Biroun	Droplet Impact on Inclined surfaces

ATTENDEE LIST

Mohammed Alghazi	Cardiff University
Haydar Aygun	London South Bank University
James Armstrong	Imperial College
Shubhi Bansal	University of Sussex
Guido Bolognesi	Loughborough University
Andrew Bond	Thales UK
Tomos Brenchley	University of Sheffield
Michael Brown	University College London
Raimund Bruenig	BelektroniG GmbH
Christian Burton	Cardiff University
Andrei Cimpoeru	Cfms
Ben Clarke	University of Sheffield
Charles Courtney	University of Bath
Luke Cox	University of Bristol
Linda Devo	Bristol Futures Academy
Yinhua Dong	Cardiff School Of Engineering
Bruce Drinkwater	University of Bristol
Andrew Duncan	National Physical Laboratory
Robert Dwyer-Joyce	University of Sheffield
Elizabeth Dye	Nottingham Trent University
Mary Dysko	University of Glasgow
David Fort	University of Sheffield
Amanda Franklin	Lumicks
Mike Fraser	University of Bristol
Richard Fu	Northumbria University
Tatsuki Fushimi	University of Bristol
Peter Glynne-Jones	University of Southampton
Thomas Graham	University of Sussex
Khaled Hashem	Nuron
Jeremy Hawkes	Acoustic Machines
Luke Hawkes	Heriot Watt University
Martyn Hill	University of Southampton
Tom Hill	University of Bristol
Seyedmehdi Hosseini	Northumbria University
Kang Hsu	Alchemy Software, Inc.
Robert Hughes	University of Bristol
Sam Jackson	University of Bristol
Joseph Kanja	University of Sheffield
Samuel Letherby-Gribble	Ortho Clinical Diagnostics
Xiangwei Li	University of Sheffield
Sadaf Maramizonouz	Northumbria University
Ian Matthews	Red Twin Ltd
Glen McHale	Northumbria University
Gianluca Memoli	University of Sussex
Roman Mikhaylov	Cardiff University
Samaneh Moeini	University of Sussex
Chris Monk	Dyson
Rafael Morales	Ultrahaptics
Gary Nicholas	University of Sheffield
Andy Nichols	University of Sheffield
Ejay Nsugbe	University of Bristol
Ekaterina Pchelintseva	Imperial College London
Dave Philips	University of Exeter
Valerie Pinfield	Loughborough University
Stefan Radel	Soniccatch
Julien Reboud	University of Glasgow
Benjamin Robinson	University of Bristol
Jenna Shapiro	University of Bristol
Saksham Sharma	University of Cambridge
Glauber Silva	University of Alagoas, Brazil
Rehana Smith	
Sarah Smith	
Mercedes Stringer Martín	Cardiff University
Xiaoyu Sun	University of Bristol
Ran Tao	Northumbria University
Stefan Tauber	Soniccatch
Liangfei Tian	University of Bristol
Jonathan Toner	LabXero
Jethro Vernon	Northumbria University
Hanlin Wang	Cardiff University
Fangda Wu	Cardiff University
Yuan Xue	University of Bristol
Chris Yang	Cardiff University
Ali Mohammad Yazdani	Marmara University
Jie Zhang	University of Bristol