### Microchannel cooling for microprocessors and heat exchangers

# Dr Aldo Rona Engineering, University of Leicester, UK aldo.rona@le.ac.uk

Horizon Europe Matchmaking Event Energy Research

19 October, 2021.

# **University of Leicester**

27th in the UK (and 185th in the world) in the <u>Times Higher Education (THE)</u> <u>World University Rankings</u>

75% of our research was judged to be internationally excellent with wide-ranging impacts on society, health culture, and the environment (Research Excellence Framework evaluation)

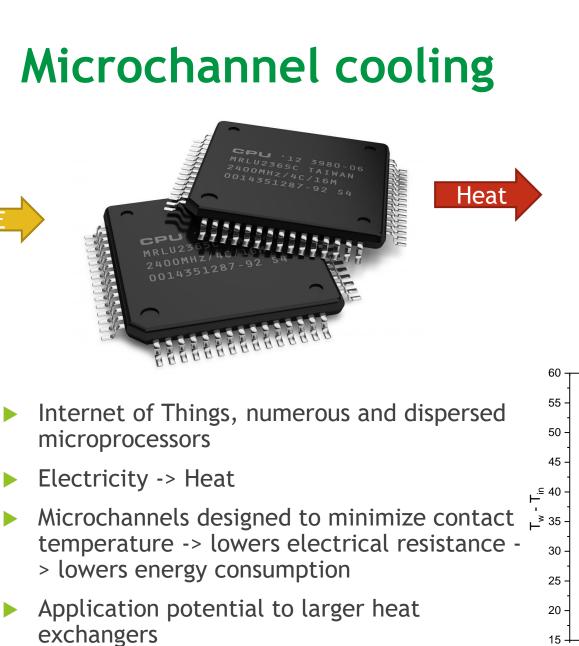
### **School of Engineering**

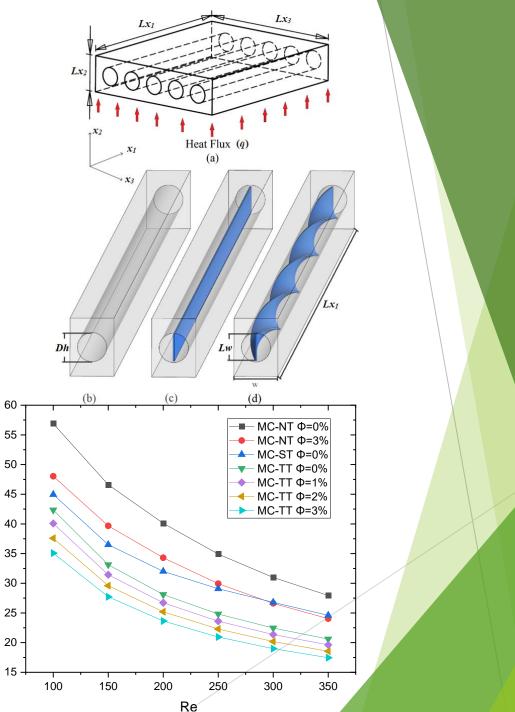
The School of Engineering opened in 1961, and it has developed into a home for multi-disciplinary Engineering teaching and research.

There are approximately 40 staff and 600 students.

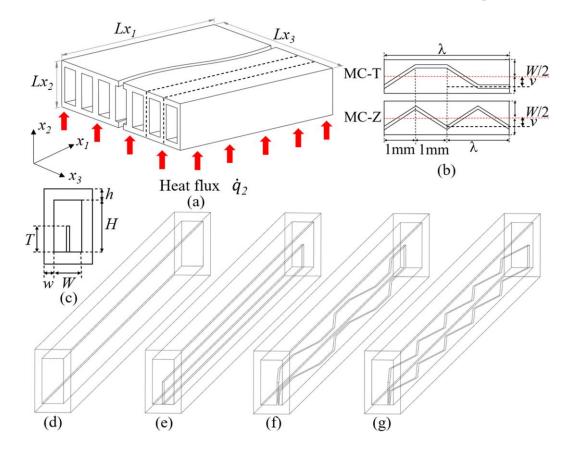
#### Dr Aldo Rona

Aerodynamic noise	Turbomachinery aerodynamics	Computational Fluid Dynamics
Jet noise	Axial turbines	Computational Aero-acoustics
Cavity flows	Axial compressors	Measurement techniques for compressible flows

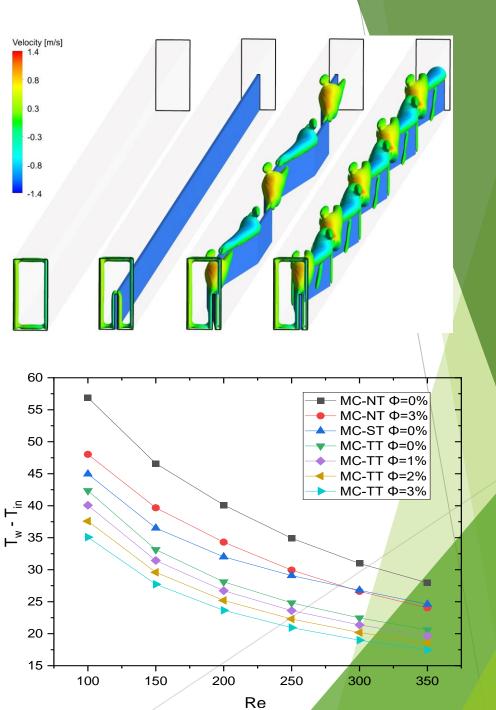




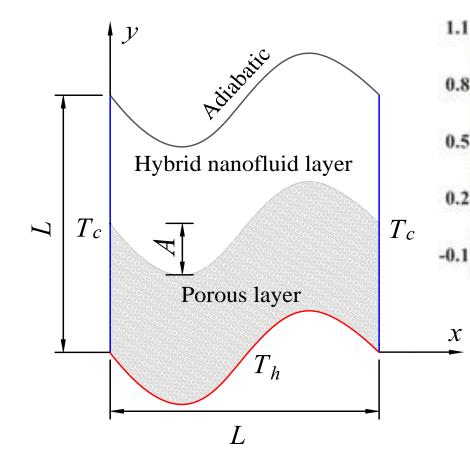
## Microchannel cooling



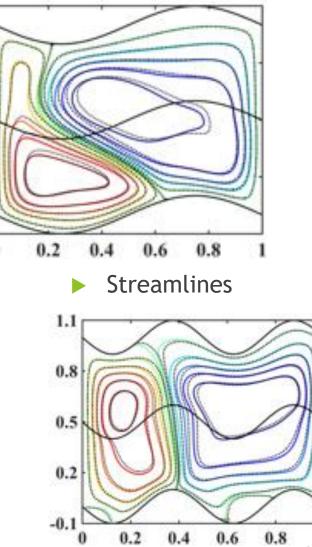
Nanofluid heat transfer enhancement

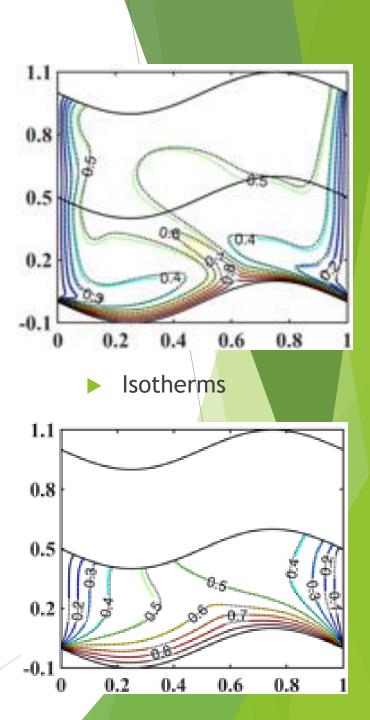


# Hybrid nanofluid in porous media



Nanofluid heat transfer enhancement





### Contact details

Dr Aldo Rona Engineering University of Leicester, UK <u>aldo.rona@le.ac.uk</u> T: +44 116 252 2510