



---

# Microfluidic manufacturing: from clean room to workshop

In this talk the rapid evolution of the field of microfluidic manufacturing from clean-room based manufacturing to rapid-prototyping options will be discussed.

The advantages and limit of each option will be described, with examples from speaker's research from the design and manufacturing of bio-inspired blood plasma separation structures to the development of ultra-fast bonding techniques for PMMA-based microfluidics. Finally, challenges ahead for the microfluidic community, and opportunities for chemical/materials engineering collaborations will be discussed.

---

Speaker/ Dr Maiwenn Kersaudy-Kerhoas

Date/ Thursday, February 23, 2017

Time/ 3.30pm

Venue/ Room B210, Building 6



Maiwenn is a Royal Academy of Engineering Research Fellow in the Institute of Biological Chemistry, Biophysics and Bioengineering at Heriot-Watt University since 2013 and an honorary fellow at the University of Edinburgh since 2015. She obtained her PhD from Heriot-Watt University in 2010 and her main research focuses on the development of novel microfluidic tools for rapid sample preparation. She works closely with biologists and clinicians to develop applications in the field of non-invasive prenatal testing, cancer and beyond.