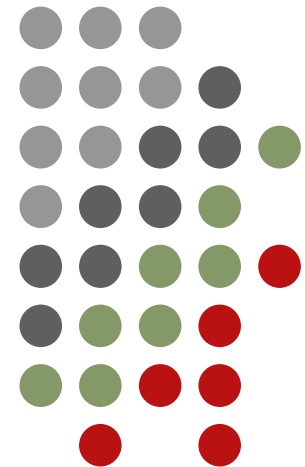


Sensors at UWS

Prof. Katherine Kirk

Microscale Sensors

University of the West of Scotland





Sensor activities at UWS

- Microscale Sensors
 - Multi-disciplinary group working in sensor design and applications, particularly in ultrasound
- Thin Film Centre
 - Thin films for optical devices
 - Hard and bio-resistant coatings
- Other groups at UWS
 - Bio / life sciences - biosensors
 - Engineering – relevant skills in metrology and design services



Microscale Sensors research

- Device design for ultrasonic transducers
 - Use of new piezo materials
 - Advanced design concepts
 - Demanding applications
- Low profile/ miniaturised monitoring sensors
 - Robust, high resolution, high frequency
- Piezo-MEMS integration
 - Bio-sensing
 - Energy harvesting
 - Microfluidics



MSc Sensor Design at UWS

- Multi-disciplinary programme
 - Physics, Electronics, Mechanical Engineering
- Developed in conjunction with Honeywell, and other local sensor companies
- Synergy with Microscale Sensors and other UWS research groups
- Strong support from Scottish Enterprise
- Industrial links should be attractive to students
- Involvement by companies could lead to development of collaborative projects and consortia