

The University Of Sheffield.

Acoustics Research At DRG

Kirill V. Horoshenkov, Anton Krynkin, Jem Rongong

January 2018



MAIN DIRECTIONS

- Acoustic materials
- Acoustic sensors
- Sound propagation modelling
- Collaborative work



ACOUSTIC MATERIALS



meta-materials









ACOUSTIC SENSORS (1)

for open channel flow characterisation

for pipe inspection





ACOUSTIC SENSORS (2)

simulation of the behaviour of autonomous sensors in pipe networks



https://youtu.be/-9p3KOMeTVY



SOUND PROPAGATION MODELLING





AREAS FOR POTENTIAL FOR COLLABORATION

- Non-linear sound in application to SHM
- Pattern recognition applied to acoustic signatures
- Application of sound to material characterisation
- New acoustic sensor delivery platforms including robotics

