



UNIVERSITY OF
BIRMINGHAM

ROBOTS FOR **SELF-REPAIRING CITIES**

Self-Repairing Cities Annual Event / 20 June 2018

Hornton Grange, University of Birmingham



SELF REPAIRING CITIES

ROBOTS FOR SELF-REPAIRING CITIES

Self-Repairing Cities Annual Event / 20 June 2018

Hornton Grange, University of Birmingham

The Robots for Self-Repairing Cities event will bring together researchers, industry and city makers to discuss the current challenges in maintaining city infrastructure systems and how state of the art robotic technologies can be used to address those challenges.

Schedule

Time (hrs)	Item
09:30	<i>Registration, refreshments and exhibition</i>
10:00	Introduction by Chris Rogers, University of Birmingham
10:10	Keynote talk: "Advances and developments in self-responding construction materials". Kevin Paine, University of Bath.
10:40	Project talk: "Road repair by 3D printing – terminating potholes". Mark Miodownik and Richard Jackson, UCL.
10:55	Discussion
11:10	<i>Refreshments and exhibition</i>
11:30	Keynote talk: "Where water meets city infrastructure and the use of marine robotics for inspection". Dan Hook, ASV Global
12:00	Industry talk: "Robotic Roadworks". Graeme Cleeton, ULC Robotics
12:15	Project talk: "Drone revolution". Rob Richardson, University of Leeds, and Stephen Prior, University of Southampton
12:30	Discussion
12:45	<i>Lunch and exhibition</i>
13:45	Keynote talk: "Rejuvenating the urban utility underworld – the challenge of getting "Street-Wise" in 21st Century Cities". Tony Rachwal, UK Water Partnership
14:15	Industry talk: Title to be confirmed. Stuart Jauncey, Balfour Beatty
14:30	Project talk: "Infrastructure condition assessment and an autonomous decision framework". Chris Rogers, University of Birmingham
14:45	Project talks: "The impact of automation on urban ecosystems". Mark Goddard, University of Leeds "Can people in self-healing cities be self-employing?" Gary Dymski, University of Leeds
15:00	<i>Refreshments and exhibition</i>
15:30	Discussion session on the priorities for research
16:25	Conclusion
16:30	<i>Close</i>