



1. Research Highlights from Engineering and the Environment

Dear Supporter

Professor Robert Wood, Associate Dean of Research and recently elected as Fellow to The Royal Academy of Engineering welcomes you to our first edition of ENGINUITY.

Professor Wood's election recognised his outstanding contribution to engineering, in particular the impact of his tribology research on engineering systems. He saw his election as a chance to "further raise the profile of tribology and other research at Southampton." As well as an opportunity to share his passion for engineering and to inspire young talent.

We hope you enjoy reading our success stories in this e-newsletter.



Village of Kitonyoni - rural Kenya

Our research delivers energy access to global communities improving lives.

Communities in six villages across rural Africa have had their lives transformed due to research at the University of Southampton. Electrical power is now provided 24/7 via solar photovoltaic panels and batteries. Resulting in economic growth, improved medical provisions and education for children.

[Read the full story](#)

Bats inspire a new breed of unmanned Micro Air Vehicles (MAVs)

MAV's used in both civil and military applications can benefit from Southampton research. Our design of innovative membrane wings inspired by bats, paves the way for a new breed of unmanned MAVs with improved aerodynamic properties which are more economical to run.

[Read the full story](#)



The Southampton - Imperial MAV



SULSA launching

Our 3D printed aircraft has enabled the Royal Navy to navigate through ice

Tiny pilotless aircraft built by our researchers scouted a route through the thick ice and frozen seas of the Antarctic for a Royal navy survey ship. The Royal Navy were using unmanned aerial vehicles in the area for the first time.

[Read the full story](#)

Southampton - leading the charge for electric vehicles.

Our researchers are developing systems to provide the infrastructure for the imminent boom in electric vehicles. Numbers of electric vehicles are set to increase to 5.3 million worldwide by 2020, without research the pressure of these vehicles will cause a vital challenge to the National Grid energy supply.

[Read the full story](#)



Charging electric vehicle



The potential of bubble acoustics

We've been using bubbles in the war against microbes.

Shooting sound through a liquid with a bubble in it will make the bubble pulsate and strongly scatter the sound. We've been exploiting the characteristics of bubbles and have found the potential to tackle problems as diverse as antimicrobial resistance and explosive detection.

[Read the full story](#)



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our impact
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