

[Using waste matter to make important nanostructured carbon \(/university/colleges/eps/news/college/2015/02/Using-waste-matter-to-make-important-nanostructured-carbon.aspx\)](/university/colleges/eps/news/college/2015/02/Using-waste-matter-to-make-important-nanostructured-carbon.aspx)

Biomass, particularly agricultural, industrial and food waste, is an attractive resource as it is often of zero or even negative value to the producer. For a materials chemist, it is a treasure trove of complex biological chemicals such as cellulose and lignin. In our research, we discover ways to convert these biological materials into materials for a wide range of potential applications, such as water treatment or batteries.

[Mapping biological sequences or tracking tweets: computer scientists find new, unique approaches to data analysis \(/university/colleges/eps/news/college/2015/02/Mapping-biological-sequences-or-tracking-tweets-computer-scientists-find-new-unique-approaches-to-data-analysis.aspx\)](/university/colleges/eps/news/college/2015/02/Mapping-biological-sequences-or-tracking-tweets-computer-scientists-find-new-unique-approaches-to-data-analysis.aspx)

Classification models are of overall importance in a variety of data analysis tasks, like classifying patient data to diseases or images to categories. If the training data for these models are vectorial and expected to be fully labeled, effective classifiers are readily available. In the modern world where data are generated much quicker than we are able to analyze it, the labeling of data becomes very costly and is often partially missing.

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191)

[Alumni in the Attic \(/university/colleges/eps/news/alumni/Alumni-in-the-Attic.aspx\)](/university/colleges/eps/news/alumni/Alumni-in-the-Attic.aspx)

It's amazing what you can find buried amongst boxes and personal effects of a bygone era. That's just what happened to Alan Cameron when he was clearing out his parents' attic.

[Alumni \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/188\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/188), **[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191)**

[2015 STEM Awards open: College winner shares experience for potential applicants \(/university/colleges/eps/news/student/2014-stem-awards-construction-category-winner-daniel-butters.aspx\)](/university/colleges/eps/news/student/2014-stem-awards-construction-category-winner-daniel-butters.aspx)

Physics student Daniel Butters took part in the 2014 Telegraph UK STEM Awards, and won in the Construction category. Here he explains why anyone interested in taking part should "just give it a go".

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191), **[Students \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/198\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/198)**

[Appointment of RSSB Executive Director, Anson Jack to Director of the Birmingham International Railway Academy \(/university/colleges/eps/news/college/2015/01/Appointment-of-RSSB-Executive-Director,-Anson-Jack-to-Director-of-the-Birmingham-International-Railway-Academy.aspx\)](/university/colleges/eps/news/college/2015/01/Appointment-of-RSSB-Executive-Director,-Anson-Jack-to-Director-of-the-Birmingham-International-Railway-Academy.aspx)

The Birmingham Centre for Railway Research and Education (BCRRE) are pleased to announce the appointment of Anson Jack to Director of the Birmingham International Railway Academy (BIRA) and Professor of International Railway Benchmarking.

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191), **[Research \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195)**

[Cutting funding for basic scientific research would be a big mistake \(/university/colleges/eps/news/college/2015/01/funding-for-basic-scientific-research.aspx\)](/university/colleges/eps/news/college/2015/01/funding-for-basic-scientific-research.aspx)

For all the exciting stories and developments that basic science research produces, there is one question that the public never tires of asking: "What are the possible applications of that discovery?" or "What is the value of your research?"

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191), **[Research \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195)**

[Engineering and Physical Sciences in the media - January 2015 \(/university/colleges/eps/news/eps-media/2015/january.aspx\)](/university/colleges/eps/news/eps-media/2015/january.aspx)

From loading dishwashers to the Large Hadron Collider and more...

[Alumni \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/188\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/188), **[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191)**, **[International \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/192\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/192)**, **[Research \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195)**, **[Students \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/198\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/198)**, **[Teaching \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/199\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/199)**

[Birmingham researchers build momentum at CERN with New Physics experiment \(/university/colleges/eps/news/college/2015/01/Birmingham-researchers-build-momentum-at-CERN-with-new-physics-experiment-.aspx\)](/university/colleges/eps/news/college/2015/01/Birmingham-researchers-build-momentum-at-CERN-with-new-physics-experiment-.aspx)

Birmingham Particle Physics research group successfully completed a pilot run of the NA62 experiment at test facility CERN on Monday 15 December 2014. The experiment is a continuation of the very successful charged and neutral program at CERN which started with NA48.

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191), **[Research \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195)**

[Are low carbon battery-powered trains the future? \(/university/colleges/eps/news/college/2015/01/Are-low-carbon-battery-powered-trains-the-future-.aspx\)](/university/colleges/eps/news/college/2015/01/Are-low-carbon-battery-powered-trains-the-future-.aspx)

The Birmingham Centre for Railway Research and Education's (BCRRE) Traction Systems Research Group has been investigating the potential for novel traction technologies for trains for some years. In 2009 the group completed a study for the Department for Transport in conjunction with TRL Ltd. to investigate the potential of a train powered entirely by batteries; the results of this work led the industry to begin to think more seriously about developing Independently Powered Electric Multiple Unit trains for the UK.

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191), **[Research \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195\)](/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195)**

[Changing Interactions: A perspective on the nature of our interaction with computers, and what this means for the future \(/university/colleges/eps/news/college/2015/01/Changing-Interactions.aspx\)](/university/colleges/eps/news/college/2015/01/Changing-Interactions.aspx)

Professor Russell Beale delivered his inaugural lecture in November 2014. This profile celebrates his success in the field of Computer Science.

[Engineering and Physical Sciences \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/191\)_](#)
[Research \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=5&stylemediatype=print&TaxonomyKey=0/1/187/195\)](#)

Displaying 41 to 50 of 356

[Previous \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=4&stylemediatype=print\)](#) ... [3 \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=3&stylemediatype=print\)](#)
[4 \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=4&stylemediatype=print\)](#) [5](#) [6 \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=6&stylemediatype=print\)](#) [7 \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=7&stylemediatype=print\)](#) ... [Next \(/university/colleges/eps/news/news.aspx?NewsListingOrig_List_GoToPage=6&stylemediatype=print\)](#)

[Privacy](#) | [Legal](#) | [Cookies and cookie policy](#) | [Accessibility](#) | [Site map](#) | [Website feedback](#) | [Charitable information](#)

© University of Birmingham 2015

