



UNIVERSITY OF  
BIRMINGHAM

## Department of Mechanical Engineering Community

Part of  
THE EPS COMMUNITY



### Welcome to your 2019 Mechanical Engineering Alumni Newsletter



#### Hello!

As I write this introduction we are preparing to welcome our new students for the start of the new academic year.

This will be the last year we welcome students into the current Engineering Building as we will be moving into our new Engineering Building in the summer of 2020.

[Read more from Duncan Shepherd](#)



#### How can the aviation industry adopt cleaner fuel?

The University is leading a new research consortium that will tackle climate change by investigating the barriers and benefits to the UK aviation industry adopting low carbon synthetic fuel.

[Find out more](#)



#### Engineers demonstrate key step in robotic disassembly

Our engineers have successfully designed a robotic system to perform key tasks in disassembling component parts; an important advance in efficiency to build products from reused or repaired parts.

[Find out more](#)



## Gas turbine tech boost to electric vehicles' range

Electric vehicles that travel a complete journey on each charge – making them more appealing to drivers – have moved a step closer, thanks to an innovative gas turbine engine being developed by experts in Britain and China.

[Find out more](#)



## Daughters of Invention – Encouraging girls into STEM

Local theatre in education company, The Play House, have partnered with a team of biomechanical and medical engineers to create a brand-new project which uses drama to encourage school children into science careers.

[Find out more](#)



## From the wider College: The problem with the plastics problem

Solving the plastics problem will not be easy. It does not have one single and simple solution. The problem is complex and often underestimated. Single use plastics, exemplified by plastic packaging will, and should, never be eliminated completely - to do so would risk other undesirable environmental consequences.

[Find out more](#)



## Vice-Chancellor visits engineering societies

On a warm sunny day in May, we were delighted to welcome Vice Chanceloor Professor Sir David Eastwood to meet our motor racing teams, UBRacing, Brum Eco Racing and UBeRacing.

[Find out more](#)



## EPS Societies' Awards

986 nominations were received to this year's student society awards. We're proud to announce that our own UBRacing won *Industrial Award Continued Excellence* and Annabel Brown was named *Inspirational Committee Member!*

[Discover our Award winners](#)



## Launch of a brand new website

We're excited to launch to you, our alumni, the brand new EPS Community website; you're the first people to see this! Mechanical Engineering and the College of Engineering and Physical Sciences, in which we are part, has a community of over 85,000 graduates, students, staff and friends. This new site celebrates everything that brings our unique community together and explores opportunities for you to join in. Come along to one of our events, see what our 38 student groups are up to, learn about your fellow alumni, and discover how you could get involved. Let us know your feedback by emailing [eps-community@contacts.bham.ac.uk](mailto:eps-community@contacts.bham.ac.uk), we'd love to hear from you.

Take a look

## WE ARE BIRMINGHAM ALUMNI

### Help inspire our students

From recent graduates to industry leaders, you are making important things happen. You can inspire students and offer an insight into the opportunities awaiting them. Plus, anyone who submits a profile before 1 November will receive an Old Joe magnet.

[Share your Birmingham story](#)



### Alumni Reunion 2019

Thank you to everyone who returned to campus in June for the annual Alumni Reunion. It may have been a grey day but spirits were high and it was great to see so many of you in the Department. Take a look at the photos and we hope to see many of you at the 2020 Reunion.

[View the photos](#)

# MENTORING

### Could you mentor a student?

We're looking for enthusiastic alumni and professionals to provide expertise, advice and inspiration to help our students start their careers. Mentoring makes a real difference; we all know the benefits of having someone to bounce ideas off. If you'd like to be that person, please get in touch.

[Email Grace to become a mentor](#)



## News roundup

[Global success continues for University of Birmingham](#) in World University Rankings, climbing four places in the 2020 THE Rankings to 112th globally.

Project launches to improve [equality, diversity and inclusion](#) in engineering and physical sciences.

Experts from the University led discussions on broadening the use of [sustainable cooling technology](#) in India and supporting the Indian Government's drive to meet key development targets.

Artificial Intelligence [could help spot Alzheimer's](#) early.

Birmingham engineers [take their research to Parliament](#).

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## Events

### [Sustainable civil nuclear power workshop](#)

17 September 2019, 9:30am-5pm  
Old Gym, University of Birmingham

### [My Life in Maths and Shaping the Brain - London Mathematical Society Popular Lectures](#)

19 September 2019, 6:30-8pm  
Bramall Music Building, University of Birmingham

### [Wetting of hydrophobic and superhydrophobic surfaces workshop](#)

20 September 2019, 10:30-11:30am  
G34 Engineering Building, University of Birmingham

### [Book to the Future](#)

18-19 October 2019 The University's annual festival of the written and spoken word, featuring free workshops, panel discussions, performances and author talks, including:

- [The return of race science, Angela Saini](#)  
18 October, 5:30-7pm
- [From Brum to bakes, Candice Brown](#)  
19 October, 6-7pm

### [Join In Hong Kong](#)

24 October 2019, 6:30-8:30pm  
Asia Society Hong Kong Center, Admiralty, Hong Kong

### [Careers and Coffee](#)

29 October, 6-8pm  
Cherry Reds, Birmingham City Centre

### [Join In New York](#)

13 November 2019, 6:30-8:30pm  
Four Seasons Hotel, Barclay Street, New York

### [Join In San Francisco](#)

14 November, 6:30-8:30pm  
Waterbar, 399 The Embarcadero, San Francisco

### [LGBTSTEMinar](#)

10 January 2020  
University of Birmingham

### [House of Lords Reception](#)

24 April 2020, 6:30-8:30pm  
House of Lords, London

### [EPS Societies' Awards](#)

10 June 2020, 7:30-11:30pm  
Great Hall, University of Birmingham



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