



UNIVERSITY OF  
BIRMINGHAM

## School of Chemical Engineering Community

Part of  
THE EPS COMMUNITY



### Welcome to your 2019 Chemical 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. Looking back on the last year there have been many highlights. In this newsletter we cover all the news and events that we hope keep you informed. This covers research, advancements in medical technologies, Royal visits, student successes and awards, news from our alumni and much more.

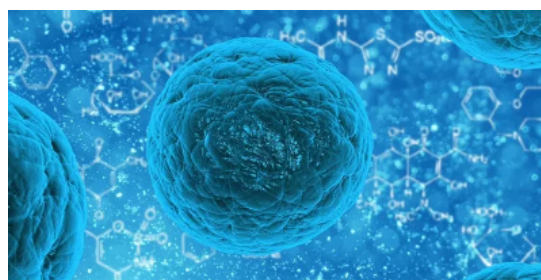
[Read more from Mark Simmons](#)



#### **Paula Mendes shortlisted for a Women in Tech Award**

Professor of Advanced Materials and Nanotechnology, Paula has been making significant and varied contributions to the development of advanced technologies to address biotechnological and healthcare challenges. Congratulations Paula!

[Find out more](#)



#### **Remote-controlled stem cells for the future**

Birmingham Healthcare Institute engineers are developing technology that allows stem cells to be remotely controlled. Professor Alicia El Ha explains how her team is using magnetic nanoparticles to revolutionise cell based treatment.

[Find out more](#)



## Smart tech helps Indian farmers reduce foodwaste and boost income

Harnessing smartphone technology so that Indian farmers make better business decisions could help to tackle the sustainable cooling challenge facing India and the wider world.

[Find out more](#)



## Clean cold experts launch toolkit to help tackle pollution and climate change

Our experts are working with the Kigali Cooling Efficiency Program and UK Government to help accelerate the spread of affordable sustainable energy and tackle climate change.

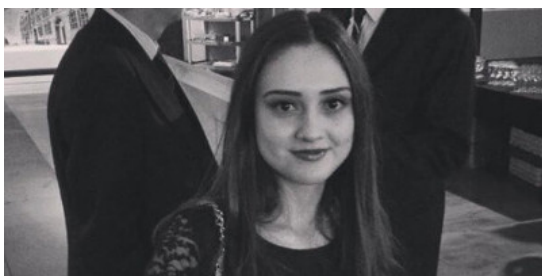
[Find out more](#)



## 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](#)



## Student rising to the top

Krystel Goodwin, a third year student on the Chemical Engineering MEng programme, has made the top 10 finalists for the TARGETjobs Science Undergraduate of the Year Award 2019. Congratulations Krystel!

[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 Yasmin Afia Bobie won *Role Model of the Year*, and the new Energy Society received the *Head of College Idea of the Year!*

[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! Chemical 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

### Share your story and 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. Whatever you're doing, they want to hear from you. Plus, anyone who submits a profile before 1 November will receive an Old Joe magnet.

[Share your Birmingham story](#)



### Alumni spotlight: Dr Maria Velissariou

In February, and in the lead up to International Woman's Day, our Women in Science and Engineering Society had the privilege to interview Dr. Maria Velissariou, Chief Science and Technology Officer at the Institute of Food Technologists, as she spoke at one of their events on the importance of mentoring.

[Find out more](#)

# 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

Chemical Engineering at Birmingham [rises to 6th place in the 2020 Guardian University Rankings](#)

The Faraday Institution announces a [further £55 million for energy storage research](#).

Dr Sophie Cox's work on engineering honey to fight the growing threat of antimicrobial resistance [featured on BBC One's Breakfast](#) news programme.

Birmingham experts have worked with one of China's biggest railway rolling stock companies to [develop the world's first shipping container using materials that store and release cold energy](#).

Birmingham hosts [UK-China symposium on clean energy utilisation and energy storage](#).

HRH The Duke of Sussex [visits the world's first conflict wound research centre](#).

Chemical Engineers takes first step to [developing rigorous numerical model](#) to predict the shape and size of drops and flows occurring within micro-fluidic devices.

Birmingham Centre for Energy Storage to [lead the UK's new energy storage research network](#).

Scientists at the University of Birmingham have [developed a novel eye drop](#) that rapidly reduces sight-threatening scarring to the surface of the eye.

Nisha Kandola, a recent Masters in Chemical Engineering graduate, has received a prestigious [Salters' Graduate Award](#).

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## Events

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

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

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

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

### [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

### [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

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

20 September 2019, 10:30-11:30am

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

G34 Engineering Building, University of Birmingham

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

### [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

### [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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