

UNIVERSITY OF  
BIRMINGHAM

# School of Metallurgy and Materials Community

Part of  
THE EPS COMMUNITY



## Autumn/Winter 2013

### Greetings

The School of Metallurgy & Materials continues to flourish in our fully-operational, refurbished building, housing state-of-the-art laboratories, offices and meeting rooms for our growing and successful staff and students. We have recently made great progress in both postgraduate and undergraduate activities in several areas.

We have won a Centre for Doctoral Training in Innovative Metal Processing (CIMP), with the Universities of Leicester and Nottingham, and industrial partners. It will support high-value manufacturing in the UK by training PhD students in metal processing technologies enabling them to become future leaders of industry. Metal processing is a vital component of manufacturing - the third largest sector in the UK economy which in 2010 accounted for 8.2% of the workforce and 12% (£150 billion in gross value added) of the country's national output. The future growth of the sector is dependent on its ability to design and make high-value products. We will train PhD researchers from different disciplines with the combination of experimental, analytical, computational, technology management and transferable skills that are needed to build industrial innovation. There will also be outreach through a Summer School engaging secondary school students in science, technology, engineering and mathematics (STEM) subjects and especially aiming to inspire women and girls to pursue STEM pathways to exciting and fulfilling careers.

The undergraduate programmes in Nuclear Engineering, run jointly by the School of Metallurgy & Materials and the School of Physics & Astronomy, are also developing and expanding. Student numbers have doubled in the last three years and developments in Britain's nuclear industry will ensure outstanding graduate employment opportunities. We now have over 85 undergraduates in total in the School (our highest number for several years) of which approximately half are on the Nuclear Engineering programmes. These students learn the fundamentals both of metallurgy and of physics before specialising in the engineering required for the nuclear industry.

For the first time in several years we are planning a Ball, to take place in June. The plans are still at an early stage but are being developed by a student-led committee including representatives from the student societies BUMS and NucSoc, as well as postgraduates, international students and staff. Further details will be circulated as they are developed.

With best wishes,

**Professor Stephen Kukureka**  
Deputy Head of School  
Metallurgy and Materials

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## News from the School of Metallurgy and Materials

### Global ranking reinforces Birmingham's position as a world-class university

The University of Birmingham has made an impressive 15 place rise to 62nd in this year's QS World University Rankings, cementing its position in the top 100 universities globally and placing it 10th in the UK. **To read more [click here](#).**

### Birmingham Heroes: Driving Economic Growth



Dr Moataz Attallah is a researcher developing new materials and manufacturing processes that have applications in the aerospace, nuclear and defence industries. This work is done in partnership with major firms including Rolls-Royce plc, BAe Systems and Safran Group, all of whom benefit from the technologies developed in Birmingham labs. Moataz's work assesses a wide range of manufacturing processes, including 3D metal printing and powder processing using a variety of experimental techniques such as synchrotron x-rays and electron microscopy. **[Read more about how Moataz's work is fuelling innovation in British manufacturing.](#)**

### Birmingham University Materials Society – BUMS!



Want to hear about what the Materials Society are up to this year so far? **[Read what the BUMS Presidents Geena Rait and Vicky Hatwell have to say.](#)**

### New Nuclear Society – NucSoc

The Nuclear Society (NucSoc) is a brand new society for the Schools of Metallurgy & Materials and Physics & Astronomy providing a communication platform for all students on the Nuclear Engineering and Nuclear Science & Materials courses. This year we hoping to expand into areas such as academic and careers events where guest speakers from the nuclear industry are invited to talk to students. More news coming soon!

### Doctoral Researcher Navdeep-Singh Kahlon wins IEAGHG Summer School 2013 Most Outstanding Student Award



Navdeep-Singh Kahlon, an Engineering Doctoral Researcher in the field of Efficient Fossil Energy Technologies, received the 'Most Outstanding Student' award and 'Member of the Best Group Presentation' at the Carbon Capture and Storage Summer School, held in the National College for Teaching and Leadership and the University of Nottingham. **[Read more.](#)**

### 3D Printing a Mummy's Hand



3D printing is helping reanimate a closely guarded collection of ancient Egyptian artefacts. In an effort to give the mummified hand, and its constituent collection, greater exposure the University of Birmingham has 3D scanned and printed a full colour replica of the severed appendage. **[Read more about the printing here.](#)**

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## New staff in 2013

There have been a number of appointments in the School this term. **Read a summary of our new staff [online here](#).**

## Your School needs you...

Would you be able to share some of your time, expertise or connections to help Metallurgy & Materials to succeed? There are many ways in which you can give a little back, from providing a career profile, to mentoring a student. **Details can be found [online](#) and [email us](#) if you would like to get involved.**

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## Events taking place shortly...

### School events

**09-11/05/2014 [Mining and Minerals Engineering, 16<sup>th</sup> Reunion Dinner](#)**

The 16th reunion dinner of former students and staff of the departments of Mining and Minerals Engineering will be held in Birmingham on Friday 9th May 2014 with a weekend of social events to follow.

***EPS Inaugural Lecture Series***

The EPS Inaugural Lecture series celebrates the promotion of leading academics across the College of Engineering and Physical Sciences.

**21/01/2013 [Professor Hanshan Dong's Inaugural Lecture](#)**

For more information on other lectures in the EPS Inaugural Lecture Series please visit [www.birmingham.ac.uk/eps/inaugural](http://www.birmingham.ac.uk/eps/inaugural)

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**University events**

**09/12/2013 [University Carol Service](#)**

**6:15-7:30pm**, on campus

This annual event, organised by University Chaplains and the Department of Music, is a joyful Christmas celebration for staff, students and families.

**11/12/2013 [Festive Drinks at the Birmingham Frankfurt Christmas Market](#)**

**6-9pm**, Victoria Square, Birmingham City Centre

Join fellow alumni for a festive drink at the largest authentic German market outside Germany and Austria.

**12/12/2013 [USA Christmas Gathering in New York](#)**

**6:30-9:30pm**, Revival, New York, USA

You are invited to the annual alumni holiday party. This is always the busiest get together of the year and we are looking forward to another fun evening.

**14/12/2013 [USA Christmas Gathering in California](#)**

**5:30-7:30pm**, California, USA

You and your partner are invited to join fellow alumni at a winter gathering cocktail party with UK University alumni from Birmingham, Nottingham and Sheffield.

**27/03/2013 [Leaders of Tomorrow Reception](#)**

**6:30-8pm**, London

Meet with current student recipients of the Access to Birmingham (A2B) scheme and students involved with the Academic Enrichment Programme at this drinks and canapés reception.

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## Do we have the right details for you?

According to our records your current business details are as follows: **Position** at **Organisation Name**. If this is not correct, please visit [your.bham](https://your.bham) or email [alumnioffice@contacts.bham.ac.uk](mailto:alumnioffice@contacts.bham.ac.uk).

**You have received this email from the University of Birmingham because we believe that it is relevant and of interest to you.** If you would like to opt-out of receiving information from your College, School or Department by email, please opt-out by visiting [your.bham](https://your.bham), emailing [alumnioffice@contacts.bham.ac.uk](mailto:alumnioffice@contacts.bham.ac.uk), or telephoning +44 (0)121 414 2773 / 2744 / 4724. In order to further tailor the communication we send, all emails are tracked and processed; further information regarding our use of data, is available by looking at our [data protection statement](#)