

Register News

Inside this issue...

[New Year Honours](#)
[New accredited degree logos](#)
[Gateway to success for first CEng](#)
[Funding increases work-based learning](#)
[Revised codes of conduct](#)
[AHEP revision](#)
[New Head of International at EngC](#)
[Operations Director appointed](#)
[IEng campaign](#)
[Technician update](#)
[New professional registers for scientists](#)
[Engineering Ethics in Practice](#)
[Engineering the Future website](#)
[Professional Development Hub](#)
[Global Engineering Education Conference](#)
[European Directive rewording proposed](#)
[EngineerING card](#)
[Revised attributes](#)
[RAeS Specialist Award for volunteer](#)
[CIPHE announces new CEO](#)
[New CEO for InstRE](#)
[The state of engineering 2012](#)
[Cultural diversity workshop](#)
[Queen Elizabeth Prize for Engineering](#)
[2011 WES Karen Burt Award](#)
[Talent 2030 attracts young women](#)
[Inspiring next generation of engineers](#)
[Physics with maths winning combination](#)
[I'm an Engineer, Get me out of Here!](#)

Welcome



Welcome to this bumper 10th birthday edition of Register News! Looking back at the first issue dated January 2002 it has been interesting to note that, apart from the more modern look, the layout and content of the newsletter remains very similar. When we carried out our most recent readers' survey, respondents indicated that they were happy with this, especially as so many now read Register News online. However, we always encourage feedback and suggestions, so will carry out another short survey later in 2012.

I am sure that 2012 will bring us many more reasons to celebrate. As well as being the

Queen's Diamond Jubilee it is, of course, the year that the world's greatest sporting event comes to London.

The engineering profession is playing a major role in the preparations of the Olympics, and we'd love to hear from any Engineering Council registrants who have been working on Olympics related projects. If you have been involved and would be prepared to share your story in order to help us promote the role of professional engineers, please contact our editor Sue Brough on sbrough@engc.org.uk.

The more observant of our readers might have noticed that our Board of Trustees has recently made a slight alteration to our Vision. This is now 'That society **continues to have** confidence and trust in the engineering profession' with the change of emphasis reflecting that there has traditionally been confidence in the engineering profession and that our role, with your support, is to ensure this continues.

Finally, I'd like to take this opportunity to wish all our readers a happy, healthy and prosperous 2012.

Jon Prichard CEng FICE FInstRE

CEO

New Year Honours congratulations

We would like to congratulate Engineering Council Associate, Professor Madeleine Atkins, Vice Chancellor of Coventry University, who has been awarded a CBE for services to Higher Education.

Our congratulations are also extended to the following registrants, who have been recognised in the New Year Honours list:

Knights Bachelor:

Sir John Armitt CBE FREng CEng FICE
 Sir Christopher Snowden FREng CEng FIET
 Sir Michael Bear CEng FICE

CBE:

Professor Ursula H M Martin CBE CEng FIET FBCS
 Professor Lionel Tarassenko CBE CEng FIET
 Professor Philip Sutton CBE CEng FIET
 Dr Andrew O Tyler CBE FREng CEng FIMarEST
 Ms Faith Wainwright MBE CEng FICE FStructE

OBE:

Mr Neil A Bruce OBE CEng MRINA
 Mr Graham Manly OBE CEng FCIBSE
 Mr Tom Foulkes OBE CEng FICE FIMechE

MBE:

Mr Mark Bew MBE CEng MBCS
 Mr Philip J Thickett MBE CEng MIMechE
 Mr David J Harris MBE CEng MCIWEM
 Mr Paul C Arnold MBE CEng MICE



Many engineering degree programmes are accredited by professional engineering institutions (PEIs) under licence from the Engineering Council. Accreditation provides a mark of assurance that the degree meets certain standards and will provide students with some or all of the underpinning knowledge, understanding and skills for eventual registration as an Incorporated (IEng) or Chartered Engineer (CEng).

To help universities highlight the accredited status of their degrees to potential students, the Engineering Council has developed an accredited degree logo for use especially on their websites or in prospectuses. Where the logo is displayed with degree course details, students and their advisers know that this degree satisfies the first step to becoming professionally qualified.

Prospective engineering students, their advisers and employers can also check the definitive list of accredited UK engineering degrees maintained and published on our website at: </education--skills/accreditation/accredited-course-search>

To accompany the logo there is a supporting statement available, aimed at students and their advisers, explaining what accredited status means. Universities running relevant degree programmes can download the accredited degree logo and statement from the website at: </education--skills/accreditation/accredited-degree-logo>. A Welsh version of the logo and statement can also be found here.

If you require more information, please contact Deborah Seddon at: dseddon@engc.org.uk

Gateway to success for first CEng

Five years after the launch of the flexible work-based MSc Professional Engineering, which provides a pathway to professional engineering registration, IET member Richard Green has not only become the first graduate of the scheme to gain Chartered Engineer (CEng) status, but is also one of the youngest to qualify.

The MSc is part of the Engineering Gateways initiative launched by the Engineering Council, in collaboration with four universities and three professional engineering institutions. Offering substantial benefits to individuals and their employers, the pathway enables engineers to pursue a degree programme and structure their MSc learning around the professional engineering tasks they undertake at work, without the disruption of time away from their company.

Richard graduated earlier this year from Kingston University in London, one of the four higher education institutions initially involved in the programme. As well as gaining the academic requirement for CEng registration through the MSc, Richard was also able to use work from this degree to underpin the development of some of the required competences. Together with the competences he has acquired through work, he was quickly able to apply to the IET for his professional review interview for CEng.

Richard said: "The combination of vocational and academic study has really contributed to my success, allowing me to apply theory to practice and vice versa. This work-based model of education is very rewarding and provides skills and knowledge that are not easily delivered in the classroom."

Richard's route to CEng began with completion of an Advanced Apprenticeship, while studying part time for an ONC and two HNCs in engineering. He then took two part time Bachelors degrees in Mechanical Engineering and Business Management at Hull, achieving a first in each subject.

Jon Prichard, CEO of the Engineering Council said: "We would like to congratulate Richard on achieving CEng status. This is not only an important milestone in his career, but also in the development of the Engineering Gateways scheme. In addition to his own hard work, Richard's success has been made possible by the valuable contribution of all our partners in the development of the programme – employers, universities and professional engineering institutions."

The MSc Professional Engineering is proving attractive to many engineers who might otherwise not have the opportunity to achieve professional status. More than 70 individuals in a range of companies are now enrolled on the MSc Professional Engineering programmes at five higher education institutions, with numbers set to grow. 14 professional engineering institutions have now signed up to support these programmes. Further details are available at: </education--skills/engineering-gateways>

The full press release can be found at: </news-list/gateway-to-success-for-first-chartered-engineer>



Photo caption: l to r: Deborah Seddon, Engineering Council; Mike Hope, Kingston University; Richard Green; Michelle Richmond and Roy Bowdler, IET

HE STEM funding to increase availability of work-based learning

We announced in the last issue that the Engineering Council has been awarded a 'practice transfer partnership' by the National HE STEM Programme as part of its workforce development plan.

Work is now progressing to develop a toolkit for universities wishing to adopt the Engineering Gateways work-based framework and offer degrees at Bachelors and Masters level in Professional Engineering. Five universities are participating in this partnership, that is being led by the Engineering Council with input from the Centre for Engineering and Design Education at Loughborough University. The 'adopter' universities are: Coventry, Derby, Greenwich, Leeds Metropolitan and the University of the West of England.

Further information on the practice transfer partnership or flexible work-based degree programmes can be obtained from Deborah Seddon at: dseddon@engc.org.uk

Revised codes of conduct

Following approval by the Registration Standards Committee at the end of October, the revised Guidelines for Institution Codes of Conduct have been published. The amended Code will be available shortly in hard copies of UK-SPEC, or can be found on the latest online version at: [/ecukdocuments/internet/document%20library/UK-SPEC.pdf](http://ecukdocuments/internet/document%20library/UK-SPEC.pdf)

The Code of Professional Conduct of each licensed professional engineering institution should place a personal obligation on its members to act with integrity and in the public interest. Institutions are encouraged to word in such a way as to encourage members to act in accordance with the Statement of Ethical Principles published by the Royal Academy of Engineering and the Engineering Council.

AHEP revision

A new version of the Accreditation of Higher Education Programmes (AHEP) brochure is now available, including a new section covering the output standards.

The online version can be found at: [/ecukdocuments/internet/document%20library/AHEP%20Brochure.pdf](http://ecukdocuments/internet/document%20library/AHEP%20Brochure.pdf) For hard copies, please contact info@engc.org.uk.

New Head of International at Engineering Council



The Engineering Council is pleased to announce the appointment of Katy Turff as Head of International. Katy joins the organisation from the Institution of Engineering and Technology (IET) where she worked for nine years, most recently as Programme Manager, delivering the Institution's strategic objectives relating to member engagement.

Katy will be building on the work in progress to shift the emphasis of international agreements from academic to competence-based standards, to ensure that all Engineering Council registrants can benefit from international recognition, whether they have achieved their professional qualifications through a standard or individual route.

"Engineering is a global profession so it follows that international recognition of our professional qualifications is vital for engineers, technicians, their employers and clients," says Katy. "There are still a lot of barriers to international mobility and it makes sense for the Engineering Council to take the lead in tackling these on behalf of, and in collaboration with, the professional engineering institutions (PEIs). As many PEIs look to grow membership and registration of members outside the UK we must also be ready to exploit the opportunities this presents to increase awareness and recognition of UK-SPEC, whilst ensuring that standards are maintained."

Katy replaces Dr Jim Birch, who has retired after eleven years in the role. During this time Dr Birch worked successfully with the PEIs to adopt a collaborative approach to international issues. He was also involved in achievements such as: building relations with relevant government departments and agencies; ensuring that EUR-ACE (European Accreditation of Engineering programmes) standards became outcome based and UK-SPEC compatible; ensuring that UK engineers and technicians were not disadvantaged by the European Recognition of Professional Qualifications Directive; developing the International Engineering Alliance and ensuring that the globally applicable standards and procedures which it applies are UK compatible.

Jon Prichard, CEO of the Engineering Council said: "We are delighted that Katy has joined the Engineering Council team. Her 20 years of PEI experience, while working for the IET and the Institution of Mechanical Engineers (IMechE), means that she is well aware of the challenges that professionally qualified engineers and technicians come up against."

Katy's wealth of experience in international activities includes supporting the Chairman of the Sydney Accord and ETMF groups and providing the secretariat for the Dublin Accord in its formative stages. She has negotiated and managed a variety of mutual recognition and partnership agreements, managed the professional review process, accreditation of degrees and other academic qualifications, and applications for the EurIng, IntPE and IntET qualifications, as well as delivering Professional Review Interviewer training in Hong Kong and Malaysia.

Operations Director appointed

The Engineering Council is also pleased to announce that David Hogan, CEng FIET has accepted the position of Operations Director, and will take up his appointment on 12 March. David is joining us from his current role as Manager Engineering Programmes & Support at BAE Systems.



HR Managers survey

In September 2011 an online survey was conducted to ascertain employers' levels of awareness and attitudes towards professional registration, and in particular IEng registration. Although we had undertaken a lot of research throughout 2010 this exercise was designed to further raise awareness among employers, while gaining a deeper understanding of their needs.

The biggest challenge in carrying out this exercise was reaching relevant HR Managers/employers of engineers. Initially, an outside database was used to identify them, followed by a request to PEIs and other partner bodies to ask their employer contacts to complete the survey. 274 employers started the survey, and a total of 175 questionnaires were fully completed.

Key findings include:

- Awareness of professional qualifications among respondents was:
 - 73% EngTech,
 - **70% IEng**
 - 89% CEng
- Despite this, a large percentage of employers did not know if their engineering employees were registered with the EngC
- 87% were aware that engineers apply for professional registration through a relevant PEI
- The two main benefits of employing professionally qualified engineers are that it provides assurance that the employee has satisfied a rigorous assessment of their engineering competence and confirmation that the engineering credentials being claimed are genuine
- 141 respondents recognise IEng as a professional qualification
- CEng is currently more likely than IEng or EngTech to be encouraged/promoted within the workplace
- More respondents (95) consider IEng as part of a progressive structure (stepping stone to CEng) than a 'stand-alone' qualification (70)

Overall, more than 70% of employers agreed that EngC and the PEIs should increase the profile and demonstrate the wider benefits of professional registration, with 62% stating that more information about the value of professional registration should be provided specifically to employers.

The full report can be found on the Extranet at: [/marketing/promoting-ieng/research-on-ieng](#)

The £100 Amazon voucher, offered as an incentive to employers who completed the survey, was won by Adrian Butler MSc CEng ACII at RSA Group.

Other campaign initiatives

These will be continuing throughout 2012, with new activities in the pipeline. Amongst these, the online awareness campaign has been resumed in January, again mainly focussing on jobseekers. This produces a number of enquiries, which are forwarded to the relevant institutions. Readers may also be aware of the IEng advertisements or coverage in their institution journals or elsewhere.

Finally, as mentioned by Jon Prichard above, we'd like to hear from any registrants, in particular Incorporated Engineers, who might be working on Olympics projects, in order to help promote the important role the profession is playing. Please contact us about this, or for any of our promotional materials, at: marketing@engc.org.uk

Technician update

The Technician Council, which was established nearly two years ago, will complete the first phase of its work in March of this year with the launch of the 'Professional Technician' brand. It is likely that responsibility for the second phase will be handed to the Engineering Council and the Science Council.

This second phase will involve conducting a review of the value of technician registration and membership, and then coordinating a programme to promote it. More information will be available in due course.

New professional registers for scientists

Following a period of consultation with stakeholders and approval from the New Registers Advisory Group, The Science Council has launched standards for two new professional registers in science - Registered Science Technician (RSciTech) and Registered Scientist (RSci). The registers were officially launched by David Willetts, Minister for Universities and Science, on 19 October in a lecture at the Royal Society of Medicine.

By introducing the new registers alongside the prestigious Chartered Scientist (CSci) award, the Science Council aims to build a framework of professional standards and recognition across the science workforce, similar to the EngTech, IEng and CEng professional qualifications offered by the Engineering Council for engineers.

The standards set out the minimum knowledge requirements, professional attributes, rules of professional conduct and ongoing professional development requirements, and can be viewed at: <http://www.sciencecouncil.org/content/register-standards>

The seven professional bodies awarded pilot licences for the new registers are: the Association for Science Education, the Institute of Biomedical Science, the Institute of Food Science and Technology, the Institute of Physics and Engineering in Medicine, the Institution of Chemical Engineers, the Royal Society of Chemistry and the Society of Biology. The pilots will run throughout 2012 after which the Science Council intends to open the registers to other member bodies.

Further information is available at: <http://www.sciencecouncil.org/content/new-registers-science>

Engineering Ethics in Practice

The Royal Academy of Engineering recently launched an innovative guide, *Engineering Ethics in Practice*. The report uses a series of case studies to address a number of ethical issues faced by professional engineers, and aims to help them to identify, analyse and respond effectively to the challenges these issues raise.

Addressed to those holding professional engineering qualifications, the guide is designed to complement the Statement of Ethical Principles, previously issued by the Royal Academy and the Engineering Council. The publication of both documents is part of the ongoing process of providing support to professional engineers in the development of their ethical skills.

The one-day launch event, held at the University of Leeds School of Mechanical Engineering, combined a plenary session given by ethicists and engineers working in industry and academia with interactive workshop sessions. Talks were given by Engineering Council Chairman Rear Admiral Nigel Guild CB FREng, Lambert Dopping-Hepenstal FREng, Professor W Richard Bowen FREng and Professor Jonathan Wolff.

It is hoped that the report will provide a valuable resource for professional development of all levels of engineers.

Engineering Ethics in Practice can be found at:

http://www.raeng.org.uk/societygov/engineeringethics/pdf/Engineering_ethics_in_practice_full.pdf

The Statement of Ethical Principles can be found at: [/ecukdocuments/internet/document%20library/Statement%20of%20Ethical%20Principles.pdf](http://www.ecukdocuments/internet/document%20library/Statement%20of%20Ethical%20Principles.pdf)

Engineering the Future website

As regular readers will know, the Engineering Council is an active member of Engineering the Future, a broad alliance of engineering institutions and bodies which represent the UK's 450,000 professional engineers. The alliance works to provide independent expert advice and promote understanding of the contribution that engineering makes to the economy, society and to the development and delivery of national policy.

Engineering the Future has now launched it's own website: www.engineeringthefuture.co.uk aimed at government departments, parliamentary committees and agencies, and policy decision makers. All policy studies and responses to government inquiries carried out by can be found on the website.

Professional Development Hub

For the third time, the Engineering Council and Professional Engineering Institutions returned to the National Engineering & Construction Recruitment Exhibition (NECR) in November, exhibiting on the Professional Development Hub.

A large number of students, graduates and skilled professionals visited the Professional Development Hub to obtain advice on their professional career progression, and to see how getting professionally qualified could boost their career prospects.

Jon Prichard, the Engineering Council's Chief Executive Officer says, "Working together on the Professional Development Hub, we are able to help engineers and technicians at any stage of their career to develop an understanding of the importance of professional qualifications, both for their own career development and for the profession as a whole. Formal recognition of competence is so important to job seekers looking to differentiate themselves as they face the challenges of a highly competitive and ever-changing profession."

Attending Institutions included:

- Chartered Institution of Highways & Transportation (CIHT)
- Institute of Healthcare Engineering and Estate Management (IHEEM)
- Institute of Highway Engineers (IHE)
- Institute of Materials, Minerals and Mining (IoM3)
- Institution of Civil Engineers (ICE)
- Institution of Engineering Designers (IED)
- Institution of Engineering and Technology (IET)
- Institution of Gas Engineers and Managers (IGEM)
- Institution of Mechanical Engineers (IMechE)
- Nuclear Institute (NI)
- Royal Aeronautical Society (RAeS)
- Society of Operations Engineers (SOE)
- Society of Environmental Engineers (SEE)
- The Welding Institute (TWI)

As part of the IEng promotional campaign the Engineering Council ran a paper plane competition on both days of the exhibition. Visitors to the stand were encouraged to build a paper plane, then during controlled sessions they competed to see which one could fly furthest in a straight line. Winners of each session received an Amazon voucher.



Global Engineering Education Conference

Engineers Without Borders UK (EWB UK) and Engineers Against Poverty (EAP) will be holding a global engineering education event in March, to explore how the global dimension is being incorporated into the teaching of undergraduates and showcase practical examples of highly innovative student projects.

The event will showcase the work of the 'Global Dimension for Engineering Education' project (see <http://www.engsc.ac.uk/global-dimension>) that is supported amongst others by EWB, EAP and the Engineering Council. It will be of interest to academic staff, students, policy-makers and industry.

The conference will take place on 26 March at University College London. Full details will be available shortly at www.ewb-uk.org and www.engineersagainstopoverty.org.

Proposed rewording for European Directive

On 19 December 2011, the European Commission published proposals for revisions to the Recognition of Professional Qualifications Directive 2005/36/EC. Over the preceding months, the Engineering Council had participated in consultations with the UK Department of Business Innovation and Skills (DBIS) and, through FEANI, the European Commission. Negotiation on the proposals is expected to continue throughout 2012.

The majority of the proposed changes will have little impact for the UK engineering profession, or may provide some benefit by, for example, requiring competent authorities to provide a detailed explanation of any identified shortfall in an application for recognition. However, the Engineering Council has sounded the alarm bells about a proposed re-wording in Article 11. This places professional qualifications at different levels, according solely to the duration of study of their academic qualification. The current wording places Incorporated Engineers at level (d) and Chartered Engineers at level (e). The proposed new wording would bring many Chartered Engineers into level (d). Engineering Council, and some PEIs, have urged DBIS to object to adoption of the proposed re-wording.

Full details of the proposed changes can be found in a Citizen's Summary on the Commission website at: http://ec.europa.eu/internal_market/qualifications/policy_developments/index_en.htm.

EngineerING card

In September 2010, the FEANI General Assembly agreed to develop a professional card for engineers, as an aid to mobility. Following publication of the process Handbook in September 2011, the German and Netherlands FEANI member organisations have now launched the card, with a number of other bodies planning to follow suit in 2012.

The Engineering Council was actively involved in developing the Handbook. However, in view of the proposals in the review of Directive 2005/36/EC, we have decided to defer making a decision on participation until it becomes clear how the EngineerING Card will fit with the Commission's proposals and the extent to which it will offer real benefits to European engineers.

Further information can be found in the January edition of FEANI News: http://www.feani.org/site/uploads/23259_brosch_feani_news_10_avecCover_low.pdf

Revised graduate attributes for Washington Accord

The Washington Accord signatories have now agreed a transition timetable that will see all signatories achieve compliance with the revised Graduate Attributes by 2019. The revised attributes were agreed on the clear understanding that these were at a higher level than those previously applied and in the view of the UK representatives, are substantially equivalent to the UK-SPEC Masters level programme outcomes. Signatories will undertake a mapping exercise and, where any shortfalls are identified, put in place action plans to remove the deficit. New signatories will be expected to demonstrate that their programmes meet the revised attributes at the point of application.

RAeS Specialist Award for EngC volunteer



Former British Airways employee Peter Richards IEng FRAeS doesn't only give his free time to the Engineering Council, as a valued volunteer on the Quality and Audit Committee, but also to the Royal Aeronautical Society's (RAeS) specialist Flight Operations Group. A founder member when the group was formed in 1991, Peter has recently been awarded the Flight Operations Medal in the RAeS' Specialist Groups' Awards in recognition of his important contribution, providing feedback to the group from the UK Flight Safety Committee.

Peter became a member of the RAeS following its 1987 merger with the Society of Licensed Aircraft Engineers and Technologists (SLAET). He originally joined SLAET as an apprentice and was already contributing to professional standards and hence Engineering Council registration application processing. He has continued to do so until the present day, thus providing approximately 30 years of Professional Standards Department volunteer service.

CIPHE Announces New CEO

The Chartered Institute of Plumbing and Heating Engineering (CIPHE) has announced the appointment of Kevin Wellman EngTech FCIPE RP MCGI FCMI MIOd FInstLM as Chief Executive Officer.

Kevin began his plumbing career as an apprentice and worked as a Registered Plumber before joining the Institute's staff in 1985 as Technical Officer. In this role he supported and developed a number of technical initiatives and activities including seminars, publications and technical enquiries. While Operations Director, Kevin was responsible for developing policy; formulation of direction and strategy; corporate social responsibility, negotiating and securing funding streams; line managing and developing staff.

In 2006 Kevin arranged the centenary conference and exhibition, which was the largest event in the Institute's history, attracting visitors worldwide. He has secured funding for a number of European projects that have seen the development of sustainable technologies and more recently a safety related product to aid the detection of asbestos fibres.

Kevin is an active participant in the WaterSafe Installer Scheme discussions, sits on the Technical Committee of the Worshipful Company of Plumbers and represents the Institute on numerous committees and working groups. Since 2001, he has worked as a business mentor for the Prince's Trust to support young people establishing new companies.

More information can be found at: <http://www.ciphe.org.uk/News/CIPHE-announces-new-CEO/>

New CEO for InstRE

Nigel Montagu CEng MIMechE MIET MIOD MInstRE has been appointed as the Chief Executive and Secretary of the Institution of Royal Engineers. He joined the institution in November, after a full career in the Royal Engineers in a variety of roles including Bomb Disposal. He became professionally qualified as a Chartered Engineer through the IMechE in 1998, but is also a Member of the IET. He was responsible, as the MOD Project Manager, for the Colchester PFI Contract and, most recently, for all Infrastructure in the 5th Division area.

Nigel has been a Trustee and Vice Commodore of the Royal Engineer Yacht Club for a number of years and an active volunteer with the Institution's Peer Group as Chairman of the Route Advisory Panel, which forms part of the Registration system.

The state of engineering 2012

According to Engineering UK: the state of engineering 2012, launched in December at the Department for Business, Innovation and Skills, by the time today's primary school pupils are of working age, the UK will need over two million additional engineers to meet demand. Predicting a growth wave in engineering jobs the report is clear that these roles will move abroad if the UK skills base can't meet the need.

The report shows that engineering is central to ensuring economic growth and plays a major role in helping to tackle global challenges, including climate change, health, food security, biodiversity, water security, population and energy security. At home, the challenge for the engineering, manufacturing and science sectors is to develop and exploit emerging technologies, such as advanced manufacturing, manu-services, and low carbon and environmental goods and services. But the UK can only achieve success in these fields if future graduates have skills rooted in maths and the sciences.

The full report can be found at: http://www.engineeringuk.com/what_we_do/education_&_skills/engineering_uk_12.cfm

Cultural diversity workshop

The Institution of Gas Engineers & Managers (IGEM) is committed to providing managers working in or alongside the gas sector with a range of interesting and informative workshops that support their continuous professional development and offer valuable networking opportunities.

With this in mind, IGEM is pleased to announce its first workshop for 2012 targeted specifically at HR and training managers, covering the pertinent topic of 'Cultural Diversity'. IGEM would like to extend the invitation out to any Engineering Institution staff who might benefit from attending such an event.

Taking place on Thursday 26 January at IGEM House in Derbyshire, this full day, interactive workshop entitled 'Breaking Down the Barriers' will provide all HR and training professionals with the opportunity to hear from a range of HR and diversity experts.

The programme includes: the Chartered Institute of Personnel Development (CIPD) who will be offering an overview of best practice, Hays Recruitment who will be presenting their 'Top 10 tips for Diversity & Talent Management' and Orton Solicitors who will offer an update on the latest relevant legislation. We will also have speakers discussing transgender awareness, challenges facing organisational culture, the latest trends and statistics from the social attitudes survey and provide a thought-provoking drama performance. These sessions will be supported by diversity case studies.

An early bird discount is available which reduces the delegate fee to £99* for IGEM members and £129* for non-members. For more information, or to book a place at this workshop please email events@igem.org.uk or call 0844 375 4436.

Queen Elizabeth Prize for Engineering

Launched late last year, the Queen Elizabeth Prize for Engineering is a new global award which celebrates truly outstanding advances in engineering that have created significant benefit to humanity. It will recognise and celebrate the best – and also serve to illuminate the sheer excitement of modern engineering.

The £1 million prize will be awarded in the name of Her Majesty The Queen to an individual or team of up to three people, of any nationality, directly responsible for advancing the positive application of engineering knowledge. It will be awarded biennially, the first being presented in Spring 2013.

The prize is the result of a growing realisation within political, business and engineering circles of the need for a pioneering initiative based in the UK to focus attention on engineering worldwide. It has the strong support of both Government and Opposition leaders in the UK, demonstrated by all three party leaders speaking at the launch event.

Generously supported by a range of top engineering companies, the Queen Elizabeth Prize for Engineering is warmly welcomed by the Engineering Council and the whole of the UK engineering community.

More details can be found at: <http://www.raeng.org.uk/prizes/qeprize/default.htm>

2011 WES Karen Burt Award

The WES Karen Burt Memorial Award is made annually to the most outstanding newly Chartered woman engineer. The 2011 deserving winner was Dr Gemma Whatling CEng, Cardiff Academic Fellow for the Arthritis Research UK Biomechanics and Bioengineering Centre at Cardiff University, who was presented with her award at the WES Annual Conference in October. Gemma is a Mechanical Engineer and was nominated by the Institution of Mechanical Engineers.

Further information is available at: <http://www.wes.org.uk/content/2011-wes-karen-burt-award-best-newly-chartered-woman-announced>

Talent 2030 to tempt young women into engineering

Business group the Council for Industry and Higher Education (CIHE) is running a campaign to tempt more young people – especially young women – into careers as engineers, for the good of the UK economy. The recent launch includes a Talent 2030 campaign website and publication of the Great Expectations report.

The report provides a set of recommendations for schools, universities, professional engineering bodies, funding and research councils, industry, business and government in order to help the UK realise its leadership potential within engineering and manufacturing.

For more details, or to download the report please visit: <http://www.cihe.co.uk/cihe-breakfast-roundtable-launch-great-expectations-25th-october-2011/>

Inspiring next generation of engineers

Teachers will be able to give students a better understanding of STEM career options and build stronger connections with business thanks to an innovative Masters level course, which was launched officially at the House of Lords.

The new course has been developed by the University of Wolverhampton, in partnership with the Institute for Education Business Excellence (IEBE) and The Royal Academy of Engineering.

Primarily aimed at teachers of Science, Technology, Engineering and Maths (STEM) subjects, the course provides formal recognition of professional development placements, taken as part of The Royal Academy of Engineering's hugely successful 'STEPS at Work' programme. By helping teachers to maximise the benefit of their placements and the contribution businesses make to classroom teaching, they will be better placed to inspire their students to pursue STEM careers.

An initial pilot cohort of teachers has been recruited to study the course from January-March 2012, with the finalised course available from mid-2012.

More details can be found at: <http://news.iebe.org.uk/2011/10/19/iebe-university-of-wolverhampton-launch-new-course/>

Physics with maths makes winning combination

Responding to soaring demand, a new pilot programme of teacher training courses which should help to redress the shortage of specialist physics teachers in schools across England is being adopted by 32 universities.

The new courses, which allow graduates to train to teach the combination of physics with mathematics, will be offered by some of the country's most high profile universities, including Oxford and Warwick, with an aim to recruit 306 trainees for September 2012.

Physics with maths is a natural combination that appeals to many physics and engineering graduates who have the potential to become teachers in these key shortage subjects. Historically, many of these graduates might have been deterred from training to teach physics by the prospect of having to learn to teach biology and chemistry as well – subjects with which they may have much less familiarity.

News of the courses followed the announcement of the record-breaking number of physics specialist trainees – 864 – recruited for courses that started in September 2011, and means that universities will be aiming to recruit 1,150 physics trainees in total next year.

The IOP has calculated that, in England, in order to ensure that every student is taught physics by a suitably qualified and enthusiastic teacher, 1,000 new physics teachers are needed every year for more than a decade to overcome the historical shortage.

To find out more about the courses please visit the TDA website www.tda.gov.uk or call the teaching information line on 0800 389 2500.

The full press release can be found at: http://www.iop.org/news/11/dec/page_53100.html

I'm an Engineer, Get me out of Here!

I'm an Engineer, Get me out of Here! is an X Factor-style competition for engineers, where students are the judges, taking place from 12 - 23 March.

The event is designed to bring engineering to life for students, by getting teenagers talking to real engineers online, hence learning about engineering. Students should have fun, but also get beyond stereotypes, while learning about the wide range of opportunities in engineering and how these relate to real life.

The organisers, Gallomanor Communications, are currently looking for engineers to participate in this event, from different areas of engineering.

For more information about the event and how to sign up please visit: <http://imanengineer.org.uk/engineers/engineers-the-event> or contact rosie@gallomanor.com

Subscription

To subscribe

Please follow this [link](#).

To unsubscribe

Send an email with "unsubscribe register news" in the subject box to register.news@engc.org.uk.